



**2007-2008 Catalog**

*experience*  
the **difference**



Dear Students,

Welcome to the 2007/2008 academic year at California State University Channel Islands.

You have chosen to attend the 23<sup>rd</sup> campus of the CSU at an exciting time, as this year we celebrate our fifth anniversary.

The past five years have been marked by steady growth in our dynamic academic programs as well as a continual building out of the campus itself, as we strive to keep up with the academic and life needs of our increasing student population.

Yes, much has been accomplished over a relatively short time in the life of our University. This ambitious pace of progress and growth will be ongoing. Laying the groundwork for the future of Cal State Channel Islands is still in full swing. I encourage you to share your thoughts and desires with us continually to assure that we are fulfilling your highest expectations for a successful college experience.

Sincerely yours,

Richard R. Rush  
President



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CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

One University Drive • Camarillo CA • 93012

(805) 437-8400 • www.csuci.edu

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## CHANGES IN RULES AND POLICIES AND FINDING INFORMATION ABOUT CSUCI

**A**lthough every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the Chancellor or designee of the California State University, or by the President or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information, which pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office.

Nothing in this catalog shall be construed as, operate as, or have the effect of an abridgment or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the Chancellor of the California State University, or the President of the campus. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules

and policies which apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the institution or the California State University. The relationship of the student to the institution is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the President and their duly authorized designees.

### University Catalog

The California State University Channel Islands catalog is published to help prospective and continuing students make informed decisions to fulfill their academic goals. This catalog is available at the University Library for reference, at the Student Bookstore for purchase, and can also be viewed online at the CSU Channel Islands web site at: [www.csuci.edu](http://www.csuci.edu)

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CSUCI Home Page: <http://www.csuci.edu>

CSUCI Web Service Portal: <http://my.csuci.edu/>

### Five Ways to Find Information about CSU Channel Islands

1. Use the Table of Contents in this catalog
2. Check the Index at the end of this catalog for an alphabetical list of virtually everything you might need to know about CSU Channel Islands. Page numbers will direct you to the appropriate information.
3. Check the Schedule of Classes. Every semester, important information is published in a separate Schedule of Classes which is available at the Student Bookstore, the Enrollment Center in the Sage Hall, and throughout the Bell Tower Building. The Schedule of Classes is also available online at [www.csuci.edu](http://www.csuci.edu). The Schedule of Classes contains information about current course offerings, new and revised curriculum and policy changes, and academic calendars. It also provides updates on fees and costs, and other important information (such as the time and location of individual classes).
4. Visit our campus via the web at [www.csuci.edu](http://www.csuci.edu).
5. Telephone numbers are listed throughout this catalog. If you need more information about a topic and cannot find a telephone number, dial the CSU Channel Islands general information line at (805) 437-8400.

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*We hope you find this catalog convenient and easy to use. If you have ideas about how we could improve this catalog, please e-mail your suggestions to Stephen Lefevre at [stephen.lefevre@csuci.edu](mailto:stephen.lefevre@csuci.edu). Thank you!*



# California State University Channel Islands

## CALENDAR FOR THE 2007- 2008 ACADEMIC YEAR & SUMMER TERM

July 2007						
S	M	T	W	T	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				

August 2007						
S	M	T	W	T	F	S
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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	

September 2007						
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9	10	11	12	13	14	15
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23	24	25	26	27	28	29
30						

October 2007						
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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			

November 2007						
S	M	T	W	T	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 2007						
S	M	T	W	T	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					

January 2008						
S	M	T	W	T	F	S
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February 2008						
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					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	

### Fall 2007 Semester

August 22-24, 2007	Wednesday - Friday
August 25	Saturday
August 27	Monday
September 3	Monday
November 12	Monday
November 22-24	Thursday - Saturday
December 8	Saturday
December 10-15	Monday - Saturday
December 17-18	Monday - Tuesday
December 19	Wednesday
December 20-21	Thursday - Friday
December 21	Friday
December 25-January 1	Tuesday-Tuesday

Faculty Orientation  
 Saturday classes begin  
 First official day of classes  
 Labor Day Holiday; campus closed  
 Veteran's Day Holiday; campus closed  
 Thanksgiving Recess; campus closed  
 Last day of formal instruction.  
 Final examinations  
 Department meetings and conferences  
 Evaluation Day  
 Instructors' grades due  
 Last day of the Fall 2007 semester  
**\*CAMPUS CLOSED**

### Spring 2008 Semester

January 17-18, 2008	Thursday - Friday
January 21	Monday
January 22	Tuesday
January 26	Saturday
March 17-22	Monday-Saturday
March 31	Monday
May 2	Friday
May 9	Friday
May 10-16	Saturday-Friday
May 17	Saturday
May 22-23	Thursday-Friday
May 23	Friday
May 26	Monday

Faculty Orientation  
 Martin Luther King, Jr. Day; all offices closed  
 First official day of classes  
 Saturday classes begin  
 Spring Recess; no instruction  
 César Chávez Holiday; all offices closed  
 Honors Convocation  
 Last day of formal instruction  
 Final examinations  
 Commencement  
 Instructors' grades due  
 Last day of 2007-2008 academic year  
 Memorial Day Holiday; all offices closed

### Summer 2008 Term (Nursing Program Only)

May 26, 2008	Monday
May 27	Tuesday
June 27	Friday
June 30	Monday
July 4	Friday
August 8	Friday

Memorial Day Holiday; all offices closed  
 Session I (5 weeks) officially begins  
 Session I ends  
 Session II (6 weeks) officially begins  
 Independence Day Holiday; all offices closed  
 Session II ends

### University Holiday Schedule

Labor Day - Monday, September 3, 2007  
 Veteran's Day - Monday, November 12, 2007  
 Thanksgiving Day - Thursday, November 22, 2007  
 Admission Day Observed - Friday, November 23, 2007  
 Christmas Day Observed - Tuesday, December 25, 2007  
 Columbus Day Observed - Wednesday, December 26, 2007  
 Lincoln's Birthday Observed - Thursday, December 27, 2007  
 Washington's Birthday Observed - Friday, December 28, 2007  
 \*No holiday available to cover closure on Monday, December 31, 2007;  
 directives from Human Resources Programs

### Fall 2007 Saturday Classes

August 25  
 September 1, 8, 15, 22, 29  
 October 6, 13, 20, 27  
 November 3, 10, 17  
 December 1, 8

New Year's Day Observed - Tuesday, January 1, 2008  
 Martin Luther King, Jr. Day - Monday, January 21, 2008  
 César Chávez Day - Monday, March 31, 2008

Memorial Day Observed - Monday, May 26, 2008  
 Independence Day - Friday, July 4, 2008

### Spring 2008 Saturday Classes

January 26  
 February 2, 9, 16, 23  
 March 1, 8, 15, 29  
 April 5, 12, 19, 26  
 May 3

March 2008						
S	M	T	W	T	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 2008						
S	M	T	W	T	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			

May 2008						
S	M	T	W	T	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 2008						
S	M	T	W	T	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					





# About the California State University System (CSU)

CSUC





CSU

## THE CALIFORNIA STATE UNIVERSITY

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972 the system became the California State University and Colleges, and in 1982 the system became the California State University. Today the campuses of the CSU include comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus—San José State University—was founded in 1857 and became the first institution of public higher education in California. The newest—CSU Channel Islands—opened in fall 2002, with freshmen arriving in fall 2003.

Responsibility for the California State University is vested in the Board of Trustees, whose members are appointed by the Governor. The Trustees appoint the Chancellor, who is the chief executive officer of the system, and the Presidents, who are the chief executive officers of the respective campuses.

The Trustees, the Chancellor, and the Presidents develop systemwide policy, with implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of the California State University, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the Chancellor.

Academic excellence has been achieved by the California State University through a distinguished faculty whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All the campuses require for graduation a basic program of “General Education Requirements” regardless of the type of bachelor’s degree or major field selected by the student.

The CSU offers more than 1,800 bachelor’s and master’s degree programs in some 240 subject areas. Many of these programs are offered so that students can complete all upper division and graduate requirements by part-time, late afternoon, and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California.

Enrollments in fall 2006 totaled 417,000 students, who were taught by some 22,000 faculty. The system awards about half of the bachelor’s degrees and a third of the master’s degrees granted in California. Nearly 2 million persons have been graduated from CSU campuses since 1960.

## TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY

### Ex Officio Trustees

The Honorable Arnold Schwarzenegger Governor of California	State Capitol Sacramento 95814
The Honorable John Garamendi Lieutenant Governor of California	State Capitol Sacramento 95814
The Honorable Fabian Núñez Speaker of the Assembly	State Capitol Sacramento 95814
The Honorable Jack O’Connell State Superintendent of Public Instruction	721 Capitol Mall Sacramento 95814
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### Officers of the Trustees

The Honorable Arnold Schwarzenegger President	
Jeffrey L. Bleich Chair	Roberta Achtenberg Chair
Richard P. West Treasurer	Christine Helwick Secretary

### APPOINTED TRUSTEES

Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

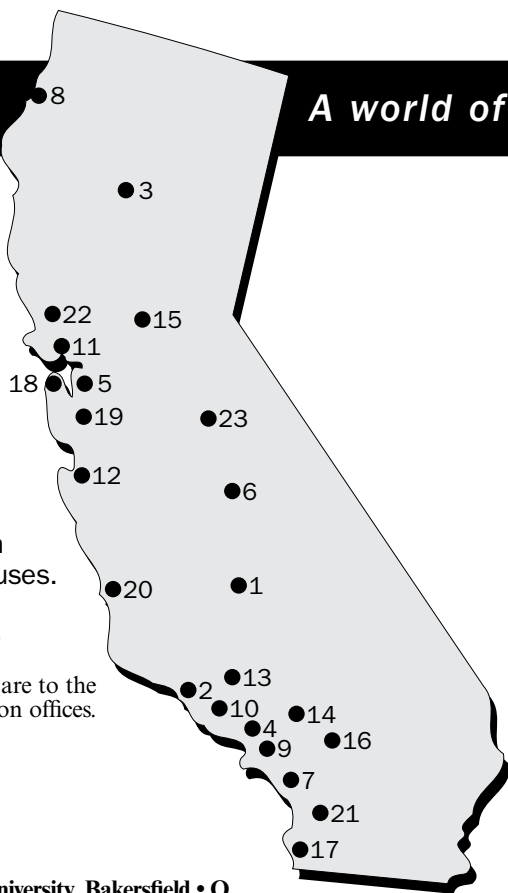
Roberta Achtenberg (2007)  
Jeffrey Bleich (2010)  
Herbert L. Carter (2011)  
Carol Chandler (2012)  
Moctesuma Esparza (2008)  
Debra S. Farar (2014)  
Kenneth Fong (2013)  
Murray L. Galinson (2007)  
George Gowgani (2010)  
Melinda Guzman (2012)  
William Hauck (2009)  
Raymond W. Holdsworth Jr. (2011)  
Ricardo F. Icaza (2008)  
Andrew LaFlamme (2007)  
Bob Linscheid (2007)  
Lou Monville (2014)  
Jennifer Reimer (2008)  
Craig Smith (2007)  
Glen Toney (2013)  
Kyriakos Tsakopoulos (2009)

Correspondence with Trustees should be sent:  
c/o Trustees Secretariat  
The California State University  
401 Golden Shore  
Long Beach, California 90802-4210

Check out the admission website for the entire California State University: **www.csumentor.edu**. You will find helpful hints, frequently asked questions, campus tours, and general information about all 23 campuses.

**S - Semester system**  
**Q - Quarter system**

**Note:** Phone numbers are to the campus admission offices.



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- 4 California State University, Dominguez Hills • S**  
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- 7 California State University, Fullerton • S**  
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- 22 Sonoma State University • S**  
1801 East Cotati Avenue, Rohnert Park, CA 94928-3609  
Dr. Ruben Armiñana, President  
(707) 664-2880 • www.sonoma.edu
- 23 California State University, Stanislaus • 4-1-4**  
801 West Monte Vista Avenue, Turlock, CA 95382-0299  
Dr. Hamid Shirvani, President  
(209) 667-3122 • www.csustan.edu





## OFFICE OF THE CHANCELLOR

**The California State University**  
**401 Golden Shore**  
**Long Beach, California 90802-4210**  
**(562) 951-4000**

Dr. Charles B. Reed	Chancellor – CSU System
Dr. Gary Reichard	Executive Vice Chancellor and Chief Academic Officer
Mr. Richard P. West	Executive Vice Chancellor and Chief Financial Officer
Ms. Jackie McClain	Vice Chancellor, Human Resources
Ms. Christine Helwick	General Counsel
Dr. Keith Boyum	Associate Vice Chancellor, Academic Affairs



## THE CALIFORNIA STATE UNIVERSITY INTERNATIONAL PROGRAMS

Developing intercultural communication skills and international understanding among its students is a vital mission of The California State University (CSU). Since its inception in 1963, the CSU International Programs has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 15,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 20 countries, the International Programs also offers a wide selection of study locales and learning environments.

<b>Australia</b>	Griffith University Macquarie University  Queensland University of Technology University of Queensland University of Western Sydney Victoria University
<b>Canada</b>	The universities of the Province of Quebec including: Bishop's University Concordia University McGill University Université Laval Université de Montréal Université du Quebec system
<b>Chile</b> Chile	Pontificia Universidad Católica de  (Santiago)
<b>China</b>	Peking University (Beijing)
<b>Denmark</b> Program	Denmark's International Study  (the international education affiliate of the University of Copenhagen)
<b>France</b>	Institut des Etudes Françaises pour Étudiants Étrangers, L'Académie d'Aix-Marseille (Aix-en Provence) Universités de Paris III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII, the Institute of Oriental Languages and Civilizations, and Université Evry.
<b>Germany</b>	Universität Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg

<b>Ghana</b>	University of Ghana, Legon
<b>Israel</b>	Tel Aviv University The Hebrew University of Jerusalem University of Haifa
<b>Italy</b>	CSU Study Center (Florence) Università degli Studi di Firenze La Accademia di Belle Arti Firenze
<b>Japan</b>	Waseda University (Tokyo)
<b>Korea</b>	Yonsei University (Seoul)
<b>Mexico</b>	Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro
<b>New Zealand</b>	Lincoln University (Christchurch) Massey University (Palmerston North)
<b>South Africa</b>	University of Kwazulu Natal Nelson Mandela Metropolitan University
<b>Spain</b>	Universidad Complutense de Madrid Universidad de Granada
<b>Sweden</b>	Uppsala University
<b>Taiwan</b>	National Taiwan University (Taipei) National Tsing Hua University
<b>United Kingdom</b>	Bradford University Bristol University Hull University Kingston University Sheffield University University of Wales Swansea
<b>Zimbabwe</b>	University of Zimbabwe (Harare)

International Programs pays all tuition and administrative costs for participating California resident students to the same extent that such funds would be expended to support similar costs in California. Participants are responsible for all personal costs, such as transportation, room and board, living expenses, and home campus fees. Financial aid, with the exception of Federal Work-Study, is available to qualified students.

To qualify for admission to the International Programs, students must have upper division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level may, however, participate in the intensive language acquisition programs in France,

Germany, and Mexico. California Community Colleges transfer students are eligible to apply directly from their community colleges. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other coursework prerequisites.

Additional information and application materials may be obtained on campus, or by writing to The California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4210. Visit us on the World Wide Web at [www.gateway.calstate.edu/csuienet/](http://www.gateway.calstate.edu/csuienet/).





# Introduction to CSU Channel Islands

CSUC





CSU

## CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS HISTORY

Located only minutes from the Pacific Ocean at the northern end of the Santa Monica Mountains, California State University Channel Islands is truly breathtaking. The entrance to the campus winds alongside lush agricultural fields, orchards, and picturesque foothills. Equally compelling is the campus architecture. Built in the early part of the twentieth century, the sprawling 1930's Spanish revival buildings house a state-of-the-art, 21<sup>st</sup> century university.

Planning for a public, four-year university began in 1965 when then Governor Pat Brown signed a bill authorizing a study for a state college for Ventura County. In 1974, Dr. Joyce Kennedy established the UC/CSU Ventura Learning Center. She went on to serve as director of the CSUN Ventura Campus for more than 15 years.

In 1996, J. Handel Evans began as Planning President charged with beginning development of a public, four-year university in the region. In September 1997, on the recommendation of the chancellor and a community

task force appointed by the Governor, the CSU Board of Trustees voted unanimously to accept the former Camarillo State Hospital site for the purpose of transforming it into the CSU's 23<sup>rd</sup> campus. In July 1996, the CSU Board of Trustees formally adopted the name California State University Channel Islands for the new University. In September 1997, Governor Wilson signed into law S.B. 623 (O'Connell) providing for the financing and support of the transition of the site for use as a university campus. Shortly thereafter, the state legislature and the CSU Board of Trustees, provided funds to begin the conversion of the facility from a state hospital into a college campus.

The CSU Board of Trustees appointed Richard R. Rush president of California State University Channel Islands and Dr. Rush's formal inauguration was held in April 2002. During the course of establishing the initial structures of the University, Dr. Rush has overseen and been directly involved in the hiring of faculty and the University's senior staff. In addition, he has directed the development of the University's strategic, academic and physical master plans.

### SANTA CRUZ VILLAGE



The University's second phase of student housing, Santa Cruz Village, will be available to the 2007 freshman class, opening its doors to 450 new residents. With double-occupancy, two-bedroom suites, this complex will accommodate incoming freshmen students. This new facility has been designed to encourage interaction and activity in first-year students who are making the transition into university life.

Santa Cruz Village, like its first phase counterpart Anacapa Village, will have multiple study rooms and

computer centers and is equipped with wireless network connectivity. Both group and quiet study areas are available. Many classes require group projects and the study rooms provide ample space and opportunity for residents to get together and collaborate with their classmates. In addition to these rooms, there are various areas for student to come together. Whether you enjoy cooking, playing an instrument, painting, or challenging your suitemates to a great game of air hockey, Santa Cruz Village is the place for you.

## PRESIDENT'S CABINET



**Richard R. Rush**  
President, 2001-Present  
President of Minnesota State  
University, Mankato, 1992-2001  
Executive Vice President, California  
State University, San Marcos  
1989-1992



**Theodore D. Lucas**  
Provost and Vice President for  
Academic Affairs, 2004-Present  
Interim Vice President, Academic  
Affairs, 2003-2004  
Chief of Staff, 1999-2003  
Director and Chair of the School of  
Music and Dance, San José State  
University, 1989-1999



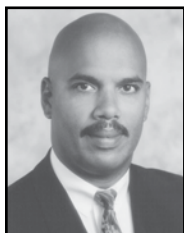
**Mario de los Cobos**  
Vice President for University  
Advancement 2004-Present  
Director of Community,  
Government and Alumni  
Relations 2002-2004  
Vice President of Public Affairs  
and Development 2001-2002  
Ventura County Community  
Foundation



**Joanne M. Coville**  
Vice President for  
Finance and Administration,  
2001-Present  
Executive Vice President, Oregon  
Graduate Institute of Sciences  
and Technology, 1995-2001  
Controller, Stanford University,  
1991-1995



**Therese Eyermann**  
Special Assistant to the President,  
2004-Present  
Executive Asst. to the Executive  
Vice Chancellor, UCLA,  
2000-2004,  
Coordinator, Program Evaluation  
and Research, UCLA, 1995-2000



**Wm. Gregory Sawyer**  
Vice President for  
Student Affairs, 2002-Present  
Founding Dean of Student Services,  
Florida Gulf Coast University,  
1995-2002  
Dean of Students, University of  
North Texas, 1990-1995



**Maureen McQuestion**  
Chief Information Officer, 2005-Present  
Director, Academic Development and  
Services Cleveland State University,  
2002-2005  
Director, Technology and Education  
Operations, Maxine Goodman Levin  
College of Urban Affairs, Cleveland  
State University, 2000-2003

The formal opening of CSU Channel Islands was held on August 16, 2002. The public ceremony included participation by Governor Gray Davis, as well as educational and community leaders from throughout the state. Classes began on August 24 with approximately 1,320 full-time transfer students enrolled for the first year. The first freshmen class arrived in fall 2003. At full capacity, CSU Channel Islands will serve more than 15,000 full-time equivalent students.

To accommodate the rapidly growing numbers of students, in 2004 the University completed the first phase of student housing, Anacapa Village, which provides on campus housing for 350 students. Phase two housing, named Santa Cruz Village, is currently under construction and will provide space for an additional 464 students. It will be

ready for occupancy when students arrive in fall 2007.

The physical campus continues to grow at a steady pace to keep up with student and academic needs. The first major University construction project on the campus was the Science Building completed in 2003. This structure provides much needed lab and auditorium space for students. Currently under construction is the prestigious John Spoor Broome Library which will provide a state-of-the-art digital teaching and learning library for students, faculty, staff, and the community.

CSU Channel Islands is a student-centered University, committed to academic excellence, civic engagement, environmental responsibility, and leadership for the 21<sup>st</sup> century.

## ACCREDITATION STATUS

California State University Channel Islands has been recognized as a Candidate for Accreditation by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC), 985 Atlantic Avenue, #100, Alameda, CA 945401 (510) 748-9001. This status is a preliminary affiliation with the Commission awarded for a maximum period of four years. Candidacy is an indication that the institution is progressing toward accreditation. Candidacy is not accreditation and does not ensure eventual accreditation.

## UNIVERSITY COLORS

The school colors of CSU Channel Islands are red and silver. The red is consistent with the tradition of the region, including the lush fields of strawberries that are a part of the diverse agricultural region, and the silver is for the dolphin, the University mascot.

## UNIVERSITY MASCOT

A petition was presented to CSU Channel Islands by local Chumash leaders that the dolphin be the University's official mascot. The sacred story of why the Chumash cherish the dolphin is contained in "The Rainbow Bridge" legend. Simultaneously, the founding student leadership of CSUN-CI petitioned to have the dolphin as CSU Channel Islands' mascot. The request was warmly received by the students, faculty, and staff.

### "The Rainbow Bridge" — A Chumash Legend

The first Chumash people were created on Santa Cruz Island. They were made from seeds of a magic plant by the Earth Goddess, whose name was Hutash. Hutash was married to the Sky Snake (the Milky Way). He could make lightning bolts with his tongue. One day, he decided to make a gift to the Chumash people. He sent down a bolt of lightning, and this started a fire. After this, people kept fires burning so that they could keep warm, and so that they could cook their food.

In those days, the condor was a white bird. But the condor was very curious about the fire he saw burning in the Chumash village. He wanted to find out what it was. So he flew very low over the fire to get a better look. But he flew too close; he got his feathers scorched and they turned black. So now the condor is a black bird, with just a little white left under the wings where they didn't get burned.

After Sky Snake gave them fire, the Chumash people lived more comfortably. More people were born each year, and their villages got bigger and bigger. Santa Cruz Island was getting crowded. And the noise the people made was starting to annoy Hutash. It kept her awake at night. So, finally, she decided that some of the Chumash would have to move off the island. They would have to go to the mainland, which was less populated. But how were the people going to get across the water to the mainland? Finally, Hutash had the idea of making a bridge out of a rainbow. She made a very long, very high rainbow, which stretched from the tallest peak on

Santa Cruz Island all the way to the tall mountains near Carpinteria.

Hutash told the people to go across the Rainbow Bridge and fill the whole world with people. So the Chumash people started to go across the bridge. Some of them got across safely, but some of them made the mistake of looking down. It was a long way down to the water, and the fog was swirling around. They got so dizzy that some of them fell off the Rainbow Bridge, down, down, through the fog, into the ocean. Hutash felt very badly about this, because she had told them to cross the bridge. She didn't want them to drown. Instead, she turned them into dolphins. So the Chumash have always said that dolphins were their brothers and sisters.

## CSUCI ALUMNI & FRIENDS ASSOCIATION

### Location

University Hall, Room 1545  
(805) 437-8952  
Fax (805) 437-2716

The CSUCI Alumni & Friends Association (A&FA) believes in creating strong University traditions, fostering University loyalty, and enhancing and strengthening relationships between alumni and current students who are also encouraged to become A&FA members. The A&FA provides career mentoring, leadership opportunities, special activities including an annual Dodger Night, and many campus discounts.

For more information, please contact Alumni Relations at (805) 437-8952 or [alumni.friends@csuci.edu](mailto:alumni.friends@csuci.edu).

## HUMAN RESOURCES PROGRAMS

### Location

University Hall  
(805) 437-8490  
Fax (805) 437-8491

Our mission is to support California State University Channel Islands' mission to place students at the center of an educational experience that emphasizes experiential learning, multiculturalism and international perspectives by providing a comprehensive human resources program to University department managers, directors, supervisors and employees designed to support and compliment this effort. Human Resources Programs is committed to creating a consistently cooperative and productive work environment that enriches all University functions and thereby enhances student success. We accomplish this by providing quality personalized guidance and support to our faculty and staff in benefits administration, compensation and classification, professional training and development, environmental health and safety, risk management, diversity and equity, and amicable resolution of employment and labor disputes through collaboration, mutual respect and dignity.

For additional information, please contact Human Resources Programs.



## SAFE ON CAMPUS

SAFE (Students, Administrators and Faculty for Equality) is a program sponsored by the Lesbian, Gay, Bisexual and Transgender (LGBT) subcommittee of the Commission on Human Relations, Diversity and Equity.

**Mission:** The SAFE On Campus program seeks to reduce homophobia and heterosexism at CSU Channel Islands. Through education, advocacy, and promoting awareness, the program contributes to building a campus climate that is safe and accepting of all members of the University community.

**Purpose:** SAFE On Campus provides an avenue through which all members of the campus community can actively show their support of lesbian, gay, bisexual and transgender people. SAFE On Campus members identify themselves by displaying the SAFE On Campus sign at their office. Members attend an orientation session, following which they receive the SAFE On Campus logo. By displaying the logo, members signal to students and employees that they can be "out" or reveal their sexual orientation or gender identity. In addition, members can serve as a valuable source to help locate resources on campus, or help report harassment or discrimination.

**Definition of an Ally:** Someone who, regardless of their gender identity and/or sexual orientation, is supportive of LGBT people and who wants to foster a campus climate that is safe for everyone.

For additional information regarding SAFE ON CAMPUS, please contact Human Resources Programs (805) 437-8490.

## POLICE DEPARTMENT

CSU Channel Islands enjoys the benefits associated with living in a rural area outside of heavily populated areas. The campus is located within one of the safest areas in the western United States.

The CSU Channel Islands Police Department is responsible for providing law enforcement services for the campus. Police officers are the only campus officials designated to receive crime reports. The Police Department is located on University Drive, one block from the campus entrance, adjacent to Lot A1. The Police Department is open 24 hours a day, 7 days a week. The department encourages prompt reporting of all crimes, potential criminal actions, and other emergencies on campus, either in person or by calling 911 or from any telephone. For non-emergencies please call (805) 437-8444.

CSU Channel Islands police officers are commissioned, sworn peace officers with full enforcement authority throughout the state. Officers are responsible for reporting and investigating crimes and traffic accidents, responding to medical emergencies, enforcing laws and local ordinances, and all other incidents requiring police assistance. Criminal cases are forwarded to the Ventura County District Attorney's Office for prosecution. Police

officers provide 24-hour patrol of the campus and surrounding neighborhood on foot, in vehicles, and on bicycles. Most police officers are also certified emergency medical technicians (EMT-1) and are the first responders to all medical emergencies.

## Safe Campus Management

The CSU Channel Islands Police Department strives to support the mission of the University by creating an atmosphere that encourages learning and safety.

The Police Department takes a proactive approach to safety that includes four interactive elements: prevention, intervention, education, and enforcement. All of these elements require collaboration with the key components of our campus community: students, faculty, staff, and visitors. While the Police Department takes pride in its leadership role, safety is everyone's concern.

The department takes steps to notify the campus community of potential criminal activity through a variety of methods. These include crime alert bulletins, the department's Web page, e-mail, voicemail, the campus newspaper, and local television and radio stations. The department encourages faculty, staff, students, and visitors to take responsibility for their own safety by taking proactive steps to reduce the likelihood of crime on campus. Crime prevention literature is available in the University Police Department lobby and via the department's Web page ([www.csuci.edu/campserv/police/index.htm](http://www.csuci.edu/campserv/police/index.htm)). The department's crime prevention program offers numerous programs and workshops that are open to students, faculty, and staff. Some of the programs available include:

- Rape Aggression Defense (RAD)
- Sexual Assault Awareness and Prevention
- Alcohol/Drug Awareness/Anti-Drunk Driving Workshops
- Personal Safety Awareness

Department members work closely with other departments on campus such as Housing and Residential Education, Student Health Services, and Personal Counseling Services in a teamwork approach to educating the campus community on such issues as alcohol and drug abuse, drinking and driving, sexual assault, and domestic violence.

## Individual Responsibility

Every student, faculty, or staff member must bear an appropriate amount of individual responsibility for their own safety and security as well as that of their fellow students, faculty, or staff. To this end, please observe the following guidelines.

- Report all crimes immediately. Prompt reporting may assist in apprehension and the prevention of future crimes. Call 911.
- Report all suspicious persons and circumstances. This may prevent a crime from occurring. Call 911.
- Please keep all wallets, checkbooks, credit cards, and cash on your person and out of sight. Ideally, backpacks should be within your view at all times.

- Do not leave items such as a laptop computer, cell phone, or wallet/purse visible in a car.
- Do not prop open or try to defeat the security features of any exterior door. If you find such a door propped open, please close it. If it will not lock, please notify any staff member or call the Police Department at ext. 8444.
- Adequately secure any property left outside, such as bicycles.
- If you must walk across campus late at night, consider going with a friend or two. The campus is very safe, but that does not mean crimes will never occur here. Do not be lulled into a false sense of security because of the peaceful surroundings.

### Identifying Yourself to Campus Officials

When requested, you are required to properly identify yourself to any campus official, including police officers. Failure or refusal to do so may result in disciplinary action.

### Crime Reporting

Immediately call the Police Department at 911 to report a crime on campus. Special crime alerts are prepared and distributed campuswide via e-mail in circumstances involving violence and/or the safety of others. The Police Department maintains a daily activity log, which can be viewed at the Police Department dispatch center. The Police Department also prepares an annual security report for distribution. This information is available to students, parents, and employees through the Division of Student Affairs. This information is also available on the Police Department Web site at [www.csuci.edu/campserv/police/index.htm](http://www.csuci.edu/campserv/police/index.htm).

### Important Telephone Numbers

#### Public Safety

On Campus – ext. 8444

Off Campus – (805) 437-8444

#### Emergency

On Campus – 911

Off Campus – 911

Evening Escort Service – (805) 437-8444 or ext. 8444

### Rape and Sexual Violence

As a proactive approach to preventing rape and sexual violence, the CSU Channel Islands Police Department offers educational and informational programs throughout the year to decrease the likelihood of assault occurring on campus or to our students.

The CSU Channel Islands Police Department takes every reported case of rape, attempted rape, or other forms of sexual violence very seriously. If you are a victim of sexual violence, call the Police Department immediately. If the assault occurred off campus, the Police Department will assist you in contacting the appropriate police department and the victim's services unit, which provides resources for counseling and

medical assistance. The CSU Channel Islands Police Department shall consider the victim's position and preferences throughout these investigations.

In the occurrence of an assault, the Dean of Student Life will be contacted. Assistance will be provided with contacting professionals, family, or friends. The Dean will also make or assist in making any changes in the victim's academic and living situations after an alleged sex offense, if available. The Dean of Student Life will also coordinate any campus disciplinary process.

### Harassment

The University takes any type of harassment complaint very seriously. Harassment is conduct that is reasonably perceived as:

- creating an intimidating, hostile, or offensive environment;
- interfering with an individual's work performance, educational activities, or programs; and
- adversely affecting an individual's employment opportunity, educational activities, or programs.

### Fire Safety

Call Public Safety at 911 to report a fire. Public Safety will contact the Ventura County Fire Department.

The University is subject to and obeys all state fire regulations. Please acquaint yourself with fire evacuation routes for your building as well as the location of all fire extinguishers. Fire alarm systems, smoke detectors, and other fire equipment are placed throughout all campus facilities for your protection. Fire drills are conducted periodically. During fire alarms, all students, visitors, and employees must evacuate the building and report to designated evacuation sites. Failure to respond is subject to disciplinary action.

Note: Misuse of fire equipment is punishable by law and subject to a fine of \$500.

### Emergency Disaster Procedures

When an emergency is declared and evacuation ordered or when it becomes obvious that evacuation is necessary, all students should report to the appropriate evacuation sites. Staff will assist students as needed, take attendance, and keep students in their assigned areas until all persons are accounted for. Students are asked to remain at the evacuation site until otherwise instructed. Do not attempt to re-enter any building until you are advised that it is safe to do so.

Injured persons should go, or be taken to, the Student Health Center, Police Department, or designated First Aid Station. Health Center personnel and other trained personnel will be available to assist injured persons.

### Code Blue Telephones/Emergency Telephones

Distinctive "code blue" phones are located in many areas on campus, and dial directly to the Police Department.

## Lost and Found

If you believe that you have lost an item, check with the Police Dispatch Center, which is located in the Public Safety Building or call ext. 8880. Property that has been turned in will be recorded and held for six months. After six months, if the owner does not claim the item, it may be disposed of in accordance with CSU regulations.

If you believe an item has been stolen, a police employee will file a report or assist you in filing a report with the appropriate jurisdiction.

## Substance Abuse

The legal drinking age in California is 21. California state law deals strongly with underage drinking and makes it a crime to furnish alcohol to underage individuals. Any person found responsible for illegal possession, distribution, or consumption of any controlled substance, including alcohol, will be subject to disciplinary action by the University and may be subject to action by civil authorities. The Police Department works closely with Personal Counseling Services to provide education and information programs to prevent substance abuse.

## Weapons

To prevent personal injury, CSU Channel Islands prohibits the possession or use of any potentially dangerous weapon or explosives on University property. Firearms, ammunition, a knife with more than a two-inch blade, paint-ball guns, air guns, CO2 powered BB or pellet guns, spring-type weapons and slingshots, and firecrackers are among prohibited items. All prohibited weapons needed for employment must be checked in with the Police Department and stored there.



## Pets/Animals

With the exception of certified service animals, pets or animals are not allowed on campus. This restriction does not apply to University Glen. Limited exceptions for educational purposes are allowed with prior approval of the Dean of Faculty.

## Access to Campus Buildings

Laboratories and classrooms are typically open from 8 a.m. to 10 p.m. daily. After hours, a member of the faculty and/or department chairs must authorize access to classrooms. Please protect yourself and others by helping us keep the campus secure. Do not prop open doors and be sure to secure locked areas.

There are still large portions of the campus facilities that are not in use and have not been renovated. Entering these areas could create a safety hazard. Entering these areas is trespassing and is strictly prohibited. Students violating this rule will be subject to discipline. If you have questions about a particular area, please contact the Police Department.

## Off-Campus Safety

The University's concern for its students does not end at the edge of campus. Although CSU Channel Islands police officers do not respond to off-campus locations for calls, they will assist you in any way possible concerning criminal or safety matters in the Ventura County area. If you are concerned for your immediate safety, dial 911. Students living off campus should follow these precautions:

1. Install and use a deadbolt and a peephole on your door and effective locking devices on your windows.
2. Be sure to request identification or call a visitor's business before admitting an unknown visitor into your home. Police officers, sales people, or repair people on legitimate business will display credentials whenever asked.
3. Do not open your door to strangers in need; instead, offer to call for assistance.
4. If you live alone, do not advertise it. Use only your first initial and last name on your mailbox or in the telephone book.
5. When moving into a house or apartment, it is wise to have the door locks changed. Previous owners, tenants, or past employees may still have keys.
6. If you receive a wrong number telephone call, do not give the caller your name, number, address, or any information to indicate you are alone. Do not prolong the conversation. If you receive an obscene call, hang up immediately and notify the local Police Department.
7. Window shades and drapes should be drawn after dark. Leave lights on in two or more rooms to indicate the presence of other persons.
8. Apartment laundry rooms, parking garages, and elevators are environments for trouble. Be alert and cautious. If your suspicions are aroused, avoid the area.
9. Get to know your neighbors so you can watch out for each other and provide mutual protection.



## TRANSPORTATION AND PARKING SERVICES

Transportation and Parking Services (TPS) provides a variety of services to the campus community. Information about these services is available on the TPS Web page at [www.csuci.edu/parking/index.htm](http://www.csuci.edu/parking/index.htm) or by calling (805) 437-8430 or ext. 8430.

Parking permits are required for all vehicles on campus, 24 hours a day, 7 days a week. This includes holidays and periods when classes are not in session. Vehicles without proper permits or that are in violation of parking regulations according to the California Vehicle Code are subject to citation. Citation appeals may be filed through TPS. Parking Regulations are also available on the TPS Web page.

### Shuttle Bus Service

As an alternative to parking on campus, a shuttle service is offered at a reduced cost of \$25 per semester, with no cost during summer session. For your convenience, the shuttle operates from three (3) sites:

<b>Oxnard</b>	<u>"C" Street Transfer Point</u>
	<u>"C" Street and Channel Islands Blvd.</u>
	<u>Near Oxnard College</u>
	Southwest corner of Bard Road and Simpson Drive
<b>Camarillo</b>	<u>Camarillo Metrolink Station</u>
	Lewis Road and Ventura Boulevard

The shuttle service is available Monday through Friday, 7 a.m. to 10:20 p.m., and Saturday, 7:30 a.m. to 5:20 p.m. Parking at the sites is free. To utilize this service and purchase your photo transit card, stop by TPS to complete an application and have your photo taken. Please allow 10 minutes to process your card.

### Bicycles

Bicycles and bicyclists shall comply with the California Vehicle Code while riding on campus. Riding is restricted to roadways and main pedestrian pathways. Riding inside buildings, on stairs, and other facilities is strictly prohibited.

### Skateboards, Scooters, and Rollerblades

For safety reasons, the use of skateboards, scooters (both motorized and non-motorized), and rollerblades is prohibited on campus, except in the University Glen area.

### Escort/On-Campus Shuttle Service

Escorts and on-campus shuttles are available Monday through Friday, 5 p.m. to 10 p.m. These shuttles transport students, faculty and staff from the Bell Tower to the parking lots. If students, faculty or staff feel uncomfortable or unsafe about walking to a vehicle after these hours or has any other special needs, a police officer will be dispatched for escort services. Please call ext. 8888 or 8444 to request this service.

## INFORMATION TECHNOLOGY SERVICES

The CSU Channel Islands Technology Center, located in Ojai Hall, houses four computer labs. Additional computer labs are located in the library and in various locations on campus. Help desk staff are available to assist students with technical support. The Technology Center hours are Monday through Thursday: 8 a.m.–10 p.m.; Friday: 8 a.m.–5 p.m.; Saturday: 8:30 a.m.–1:30 p.m.; and Sunday: 10:00 a.m.–1:00 p.m.

### Public Computing Lab

Located in Room Oj 1958, this is a public drop-in computer lab for students. This lab provides commonly used software including the latest word processing, spreadsheet, data analysis, and networking/Internet connectivity tools.

### Instructional Computing Labs

Rooms TC 1952 and TC 1972 consist of Windows based computers and are utilized for instructional use. Room TC 1964 consists of Mac OS X based computers and is utilized for instructional use.

### Blackboard

Blackboard is a Web-based course management system that delivers many courses. Blackboard based courses can be accessed 24/7 on the internet at <http://csuci.blackboard.com> (note there is no www). To login, enter your user name and password. Your user name is your PeopleSoft user name. Example: pat.jones999. Your password is your PeopleSoft Student ID number (on your student ID card).

For additional assistance with any of our services, please visit the Technology Center in Ojai Hall, call us at (805) 437-8552, or send an e-mail to: [helpdesk@csuci.edu](mailto:helpdesk@csuci.edu).

### Dolphin Email

Dolphin Email accounts are automatically given to all registered students. Dolphin Email is web-based and accessible from anywhere over the internet. To access your email, complete the following steps:

- Go to: <http://mail.dolphin.csuci.edu>
- Enter your user name. Your user name is your PeopleSoft user name. Example: pat.jones999
- Password: your default email password is your PeopleSoft Student ID number (on your student ID card).

## THE COVE BOOKSTORE

The Cove Bookstore is dedicated to serving the academic mission of California State University Channel Islands. We take great pride in serving our customers with their textbook, trade book, and general merchandise needs either in our store or through our virtual bookstore on [efollett.com](http://efollett.com). In addition to serving the faculty and students with their academic needs, we also invite the community to visit the store, browse our extensive book selection, and relax and read in our comfortable reading area. The bookstore is presently located in the Bell Tower building, and will soon be moving to the

newly constructed Town Center. The bookstore is open Monday–Thursday 7:30 a.m.–7:00 p.m., Friday 7:30 a.m.–3:30 p.m. and Saturday 10:00 a.m.–2:00 p.m. For additional information about our products and services please contact us at bookstore@csuci.edu or (805) 437-8833.

### CAMPUS DINING SERVICES

Cal State Channel Islands' main dining services area "Islands Café" is located on the East side of the South Quad on University Drive next to the Art Department Complex.

Presented by Sodexo, our dining room is a gathering place offering a variety of contemporary menu formats for all of our campus community members (students, visitors, faculty, staff and, University Glen residents) to choose from throughout the week.

**Area 155°** features grilled items such as cheeseburgers, chicken tenders, grilled chicken breast sandwiches and special promotional sandwiches offered on a rotating basis. With combo meals prominently featured, it's easy to order a great value.

**The Market** focuses on menus based on traditional American classics and international cuisines, including roasted, herb-encrusted chicken, and popular side dishes like macaroni and cheese, garlic mashed potatoes, and fresh vegetables prepared with both Vegetarian and Vegan customers in mind. Try a bowl of our freshly made soup of the day!

**La Cucina** is for lovers of Italian cuisine. Pizza by the slice remains the staple with daily, personal vegetarian pizzas featured as well. Daily pasta specials include favorites like Fettuccine Alfredo, Penne in a Marinara Sauce, and Cheese-Stuffed Tortellini with choice of sauce.

Students "on-the-go" may also grab a quick bite at **Café à la Cart**. Assorted teas and coffee, bottled or fountain beverages, fresh-baked cookies, brownies, muffins and bagels, a collection of grab and go sandwiches, wraps and sushi rolls are the delicious menu items you'll find waiting for you at Café à la Cart. To start your day, you'll find fresh fruit, yogurt and an assortment of breakfast breads featured in the breakfast bar. Café à la Cart – it's on the way to where you're going.

Our fresh **Salad Bar** invites guests to build a side salad to compliment a grilled order or to create a full meal. Staple offerings include a variety of lettuce types, fresh vegetables like tomatoes, carrots and cucumbers along side rotating featured toppings of artichoke hearts, mushrooms and tofu with cheeses, dressings, nuts and raisins for you to combine to create a healthy meal.

Found also at CSUCI in the Bell Tower building

is **Java Hut**, a coffee shop serving a variety of hot beverages and baked goods and **The Cove**, which offers convenience-store-style food and drinks.

### Student Meal Plan – "Dolphin Dollars"

An optional declining balance meal plan has been designed to meet the needs of CSUCI students living off campus. The meal plan is a convenient means to prepay for meals. Debit cards are issued for use to purchase snacks and meals at Islands Café. Bonus dollars are awarded on an increasing scale for prepayments of amounts over \$101.00. The larger the prepayment, the greater the bonus! Funds can easily be added to the meal card through out the academic year. With "Dolphin Dollars" students can even treat family and friends to a meal. When compared to other meal plans at various campuses, our plan will provide students with maximum benefit and greater flexibility for their lifestyle.

### AVAILABILITY OF INSTITUTIONAL AND/OR FINANCIAL ASSISTANCE INFORMATION

The following information concerning **student financial assistance** may be obtained from the Financial Aid Office, Sage Hall, (805) 437-8530.

1. A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at CSUCI;
2. For each aid program, a description of procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
3. A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;
4. The satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
5. The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
6. The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
7. The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
8. The responsibility of CSUCI for providing and collecting exit counseling information for all student borrowers under the federal student loan programs; and
9. The terms and conditions for deferral of loan payments for qualifying service under the Peace Corps Act, the Domestic Volunteer Service Act of 1973, or comparable volunteer community service.



10. Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulation.

The federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at <http://www.sss.gov>.

Information concerning **the cost of attending CSUCI** is available from Cashier's Office, (805) 437-8533. Information includes fees and tuition (where applicable); the estimated costs of books and supplies; estimates of typical student room, board, and transportation costs; and, if requested, additional costs for specific programs.

Information concerning the **refund policies** of CSUCI for the return of unearned tuition and fees or other refundable portions of institutional charges is available from Cashier's Office, Sage Hall.

Information regarding special facilities and services available to **students with disabilities** may be obtained

from Disability Accommodation Services, Bell Tower Building, East Wing. (805) 437-8510.

Information concerning CSUCI policies, procedures, and facilities for students and other to report **criminal actions or other emergencies** occurring on campus may be obtained from the Public Safety Office, (805) 437-8444.

Information concerning CSUCI **annual campus security report** may be obtained from the Public Safety Office, (805) 437-8444.

Information concerning the **prevention of drug and alcohol abuse and rehabilitation** programs may be obtained from the Office of Student Life, Bell Tower Building. (805) 437-8510.

Information regarding **student retention and graduation rates** at CSUCI and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from the Office of Institutional Research, Sage Hall. (805) 437-8979.

Information concerning **athletic opportunities** available to male and female students and the financial resources and personnel that CSUCI dedicates to its men's and women's teams may be obtained from the Office of the Vice President for Student Affairs, Bell Tower Building. (805) 437-8536.

Information concerning **teacher preparation programs** at CSUCI, including the pass rate on teacher certification examinations, may be obtained from the Credential Office, Bell Tower Building. (805) 437- 8553.

Information concerning **grievance procedures for students** who feel aggrieved in their relationships with the university, its policies, practices and procedures, or its faculty and staff may be obtained from the Dean of Student Life, (805) 437-8510.



## HOW TO CONTACT US

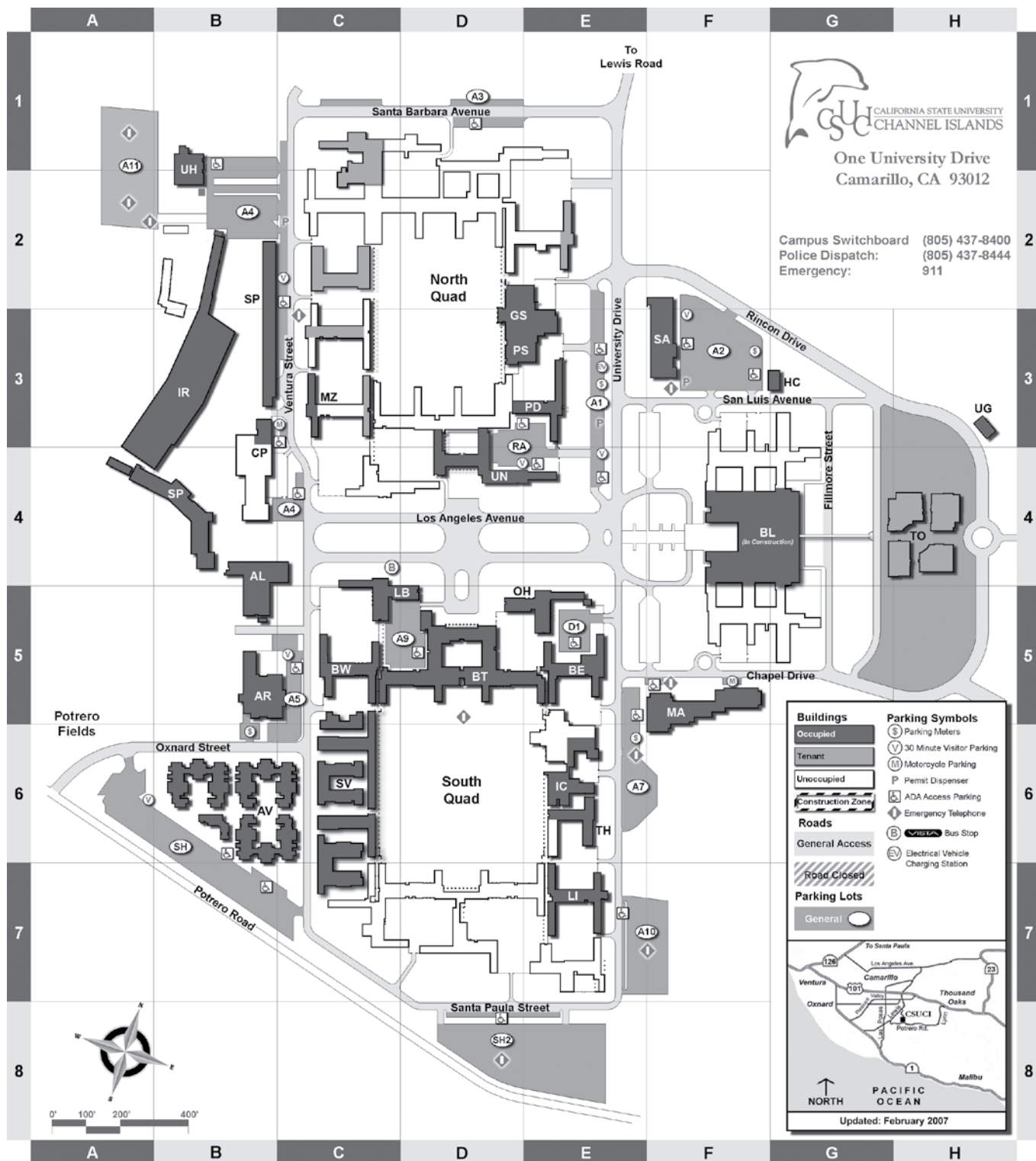
Emergency or Fire, Dial 911 for Campus Phones or use Blue Light Phones  
CSUCI Main Operator, Dial (805) 437-8400

TOPIC	CONTACT OFFICE	LOCATION	EXTENSION	WEBSITE ADDRESS (if applicable)
Academic Advising (Current Students)	Advising Center	Bell Tower	8571	<a href="http://www.csuci.edu/academics/advising/currentstudents.htm">http://www.csuci.edu/academics/advising/currentstudents.htm</a>
Academic Programs and Planning	Office of Academic Programs and Planning	Sage Hall	8540	<a href="http://www.csuci.edu/academics/scheduleandcatalog.htm#catalogs">http://www.csuci.edu/academics/scheduleandcatalog.htm#catalogs</a>
Admissions	Admissions & Recruitment	Sage Hall	8500	<a href="http://www.csuci.edu/admissions/index.htm">http://www.csuci.edu/admissions/index.htm</a>
Billing or Account Balances	University Cashier	Sage Hall	8533	<a href="http://www.csuci.edu/campserv/finance/university_cashier.htm">http://www.csuci.edu/campserv/finance/university_cashier.htm</a>
Bookstore	Student Bookstore	Bell Tower	8833	<a href="http://www.csuci.bkstr.com">http://www.csuci.bkstr.com</a>
Campus Tours	Recruitment Office	Sage Hall	8520	
Career Counseling	Student Life	Bell Tower	3270	<a href="http://www.csuci.edu/careerdevelopment/index.htm">http://www.csuci.edu/careerdevelopment/index.htm</a>
Clubs and Organizations	Student Leadership & Community	Bell Tower	8998	<a href="http://www.csuci.edu/studentlife/cluborg.htm">http://www.csuci.edu/studentlife/cluborg.htm</a>
Commencement (Graduation)			3100	<a href="http://www.csuci.edu/students/commencement.htm">http://www.csuci.edu/students/commencement.htm</a>
Credentials	Credentialing Office	Bell Tower	8953	<a href="http://education.csuci.edu">http://education.csuci.edu</a>
Dean of the Faculty	Office of the Dean	Bell Tower	8967	<a href="http://www.csuci.edu/academics/deansoffice/index.htm">http://www.csuci.edu/academics/deansoffice/index.htm</a>
Disability Accommodation Services	Student Life	Bell Tower	8510	<a href="http://www.csuci.edu/disability/disableaccomodate.htm">http://www.csuci.edu/disability/disableaccomodate.htm</a>
Employment Information, Students	Student Life	Bell Tower	3270	<a href="http://www.csuci.edu/careerdevelopment/index.htm">http://www.csuci.edu/careerdevelopment/index.htm</a>
EOP (Educational Opportunity Program)	Student Life	Bell Tower	8939	<a href="http://www.csuci.edu/studentlife/eop.htm">http://www.csuci.edu/studentlife/eop.htm</a>
Fees – Paying for Registration	University Cashier	Sage Hall	8810	<a href="http://www.csuci.edu/campserv/finance/university_cashier.htm">http://www.csuci.edu/campserv/finance/university_cashier.htm</a>
Financial Aid, Work Study, and Scholarships	Financial Aid	Sage Hall	8530	<a href="http://www.csuci.edu/financialaid/index.htm">http://www.csuci.edu/financialaid/index.htm</a>
Graduation Requirements	Advising Center	Bell Tower	8571	<a href="http://www.csuci.edu/academics/advising/index.htm">http://www.csuci.edu/academics/advising/index.htm</a>
Health Services	Student Health Services	Counseling & Student Health Center	8828	<a href="http://www.csuci.edu/studenthealth/index.htm">http://www.csuci.edu/studenthealth/index.htm</a>
Housing	Housing & Residential Education	Anacapa Village	2733	<a href="http://www.csuci.edu/students/houserelife.htm">http://www.csuci.edu/students/houserelife.htm</a>

## HOW TO CONTACT US

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CSUCI Main Operator, Dial (805) 437-8400

TOPIC	CONTACT OFFICE	LOCATION	EXTENSION	WEBSITE ADDRESS (if applicable)
The Hub	Student Leadership & Community	The Hub	8932	<a href="http://www.csuci.edu/studentlife/hub.htm">http://www.csuci.edu/studentlife/hub.htm</a>
ID Card	University Cashier	Sage Hall	8810	<a href="http://www.csuci.edu/campserv/finance/university_cashier.htm">http://www.csuci.edu/campserv/finance/university_cashier.htm</a>
Library	University Library	University Library	8561	<a href="http://www.library.csuci.edu">http://www.library.csuci.edu</a>
Orientation	New Student & Transition Programs	Bell Tower	8998	<a href="http://www.csuci.edu/studentlife/orientation.htm">http://www.csuci.edu/studentlife/orientation.htm</a>
Parking	Transportation & Parking	Public Safety Building	8430	<a href="http://www.csuci.edu/parking/index.htm">http://www.csuci.edu/parking/index.htm</a>
PeopleFinder	Campus Online Directory	Website	8552	<a href="http://www.csuci.edu/campserv/directory.htm">http://www.csuci.edu/campserv/directory.htm</a>
Personal Counseling Services	Student Life	Counseling & Student Health Center	8828	<a href="http://www.csuci.edu/students/enrolled/service/personalcounsel.htm">http://www.csuci.edu/students/enrolled/service/personalcounsel.htm</a>
Police (Campus)	Police Department	Public Safety Building	8444	<a href="http://www.csuci.edu/campserv/publicsafety.htm">http://www.csuci.edu/campserv/publicsafety.htm</a>
President's Office	Office of the President	University Hall	8410	
Provost & Vice President for Academic Affairs	Office of the Vice President	Bell Tower	8441	
Records (Registration/Grades/Transcripts)	Records & Registration	Sage Hall	8500	<a href="http://www.csuci.edu/students/registrationrec.htm">http://www.csuci.edu/students/registrationrec.htm</a>
Recreation & Leisure Services	Student Life	Arroyo Hall	8902	<a href="http://www.csuci.edu/studentlife/recreation.htm">http://www.csuci.edu/studentlife/recreation.htm</a>
Recruitment (Prospective Students)	Recruitment Office	Sage Hall	8520	<a href="http://www.csuci.edu/goCSUCI">http://www.csuci.edu/goCSUCI</a>
Registration, Online (mycsuci/Peoplesoft)	Records & Registration	Sage Hall	8500	<a href="http://my.csuci.edu">http://my.csuci.edu</a>
Schedule of Classes	Office of the Dean	Bell Tower	8967	<a href="http://www.csuci.edu/academics/scheduleandcatalog.htm">http://www.csuci.edu/academics/scheduleandcatalog.htm</a>
Student Government	Student Gov't (ASI Inc.)	Bell Tower	2759	<a href="http://www.csuci.edu/studentlife/associatedstu.htm">http://www.csuci.edu/studentlife/associatedstu.htm</a>
Tutoring	Math & Writing Center	Bell Tower	8409	<a href="http://www.csuci.edu/academics/advising/tutoring.htm">http://www.csuci.edu/academics/advising/tutoring.htm</a>
University HelpDesk	Information Technology	Technology Center	8552	<a href="http://www.csuci.edu/it/index.htm">http://www.csuci.edu/it/index.htm</a>
Veterans Services	Records & Registration	Sage Hall	8500	<a href="http://www.csuci.edu/veterans/index.htm">http://www.csuci.edu/veterans/index.htm</a>
Vice President for Student Affairs	Office of the Vice President	Bell Tower	8536	<a href="http://www.csuci.edu/students/enrolled/affairs/offofvp.htm">http://www.csuci.edu/students/enrolled/affairs/offofvp.htm</a>



Building	Address	Grid
AL	Aliso Hall	47 Ventura St. B4
AR	Arroyo Hall	57 Ventura St. B5
AV	Anacapa Village	73 Ventura St. B6
BL	Broome Library	50 University Dr. F4
BW	Bell Tower West	57 University Drive C5
BT	Bell Tower	46 Los Angeles Ave. D5
BE	Bell Tower East	56 Ventura St. E5
CP	Chaparral Hall	35 Ventura St. B3
GS	Grand Salon	North Quad E3
HC	Health Center	21 San Luis Ave. G3
IC	Islands Cafe	71 University Dr. E6
IR	Ironwood Hall	Corporation Yard B3
LB	Library	54 Los Angeles Ave. C4
LI	Lindero Hall	81 University Dr. E7

Building	Address	Grid
MA	Malibu Hall	20, 22, 24 Chapel Dr. F5
MZ	Manzanita Hall	34 Ventura St. C3
OH	Ojai Hall	38 Los Angeles Ave. E5
PD	Public Safety/Parking	33 University Dr. E3
PS	Petit Salon	North Quad E3
SA	Sage Hall	26 University Dr. F3
SP	Shops	Corporation Yard B3
SV	Santa Cruz Village	74 Ventura St. C6
TH	Topanga Hall	71 University Dr. E6
TO	Town Center	45 Rincon St. H4
UG	University Glen Sales	36 Rincon St. H3
UH	University Hub	9 Ventura St. B1





# Admission Procedures and Policies

CSU  
SAC





CSU

## ADMISSION PROCEDURES AND POLICIES

Requirements for admission to CSU Channel Islands are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Complete information is available at [www.csumentor.edu/planning/](http://www.csumentor.edu/planning/).

Electronic versions of the CSU undergraduate and graduate applications are accessible on the World Wide Web at <http://www.csumentor.edu>. The CSU Mentor system allows students to browse through general information about CSU's twenty-three campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid.

Applying online via [www.csumentor.edu](http://www.csumentor.edu) is encouraged, and many CSU campuses will facilitate use of online applications for admission. Application in "hard copy" form may be obtained online or at any California high school or community college or from the Office of Admission at any of the campuses of the California State University.

### IMPORTANCE OF FILING COMPLETE, ACCURATE, AND AUTHENTIC APPLICATION DOCUMENTS

CSU Channel Islands advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire, and financial aid forms. Further, applicants must, when requested, submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of registration or academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

### UNDERGRADUATE APPLICATION PROCEDURES

Prospective students applying for part-time or full-time undergraduate programs of study in day or evening classes must file a complete undergraduate application. The \$55 nonrefundable application fee should be in the form of a check or money order payable to "The California State University" or by credit card if submitting the online application, and may not be transferred or used to apply to another term. An alternate major may be indicated on the application. The applications of persons denied admission to an impacted and/or closed campus may be re-routed to another campus at no cost, but only if the applicant is CSU eligible.

### IMPACTED PROGRAMS

The CSU designates programs as impacted when more applications from minimally CSU eligible students are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can

be accommodated. Some programs are impacted at every campus where they are offered; others are impacted only at some campuses. Candidates for admission must meet supplementary admission criteria if applying to an impacted program.

The CSU will announce during the fall filing period those programs that are impacted and the supplementary criteria campuses will use. Detailed impaction information is available at <http://www.calstate.edu/ar/impactioninfo.shtm> and via [www.csumentor.edu](http://www.csumentor.edu). That announcement will also be published in the *CSU Review* distributed to high school and college counselors, and made available online at <http://www.calstate.edu/ar/csureview>. Information about the supplementary criteria is also provided to program applicants.

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered in impacted programs at more than one campus should file an application at each campus for which they seek admissions consideration.

### Supplementary Admission Criteria

Each campus with impacted programs uses supplementary admission criteria in screening applicants. Supplementary criteria may include ranking on the freshman eligibility index, the overall transfer grade point average, completion of specified prerequisite courses, and a combination of campus-developed criteria. Applicants are required to submit scores on either the SAT or the ACT. For fall admission, applicants should take tests as early as possible and no later than October of the preceding year.

The supplementary admission criteria used by the individual campuses to screen applicants appear periodically in the *CSU Review* and are made available by the campuses to all applicants seeking admission to an impacted program. Details regarding the supplemental admissions criteria are also provided at <http://www.calstate.edu/AR/impactioninfo.shtml>.

### GRADUATE AND POSTBACCALAUREATE APPLICATION PROCEDURES

All graduate and post-baccalaureate applicants (e.g., joint PhD and EdD applicants, master's degree applicants, those seeking educational credentials, and holders of baccalaureate degrees interested in taking courses for personal or professional growth) must file a complete graduate application as described in the graduate and post-baccalaureate admission materials at [www.csumentor.edu](http://www.csumentor.edu). Applicants seeking a second bachelor's degree should submit the undergraduate application for admission. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the \$55 nonrefundable application fee. Since applicants for post-baccalaureate programs may be limited to the choice of a single campus on each application, re-routing to alternate campuses or

later changes of campus choice are not guaranteed. To be assured of initial consideration by more than one campus, it is necessary to submit separate applications (including fees) to each. Applications submitted by way of [www.csumentor.edu](http://www.csumentor.edu) are preferable. An electronic

version of the CSU graduate application is available on the World Wide Web at <http://www.csumentor.edu>. Application forms may also be obtained from the Graduate Studies Office or the Admissions Office of any California State University campus.

### APPLICATION FILING PERIODS

Terms in 2006-07	Applications First Accepted	Initial Filing Period	Filing Period Duration
Summer Semester 2007	February 1, 2007	February 1 - 28, 2007	Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category because of overall enrollment limits. If applying after the initial filing period, consult the campus admission office for current information. Similar information is available at <a href="http://www.csumentor.edu/filingstatus/default.asp">www.csumentor.edu/filingstatus/default.asp</a>
Fall Semester 2007	October 1, 2006	Oct. 1 - Nov. 30, 2006	
Spring Semester 2007	August 1, 2007	August 1 - 31, 2007	

### Application Acknowledgment

On-time applicants may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements and campus requirements for admission to an impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another campus.

### HARDSHIP PETITIONS

The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should write the campus Admission Offices regarding specific policies governing hardship admission.

### UNDERGRADUATE ADMISSION REQUIREMENTS

#### Freshman Requirements

Generally, first-time freshman applicants will qualify for regular admission if they meet the following requirements:

1. Have graduated from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination; and
2. Have a qualifiable minimum eligibility index (see section on Eligibility Index); and
3. Have completed with grades of C or better each of the courses in the comprehensive pattern of college preparatory subject requirements (see "Subject Requirements").

**Eligibility Index** – The eligibility index is the combination of the high school grade point average and scores on either the ACT or the SAT. Grade point averages (GPA) are based on grades earned in courses taken during the final three years of high school. Included in calculation of GPA are grades earned in all college preparatory "a-g" subject requirements, and bonus points for approved honors courses.

Up to eight semesters of honors courses taken in the last three years of high school, including up to two approved courses taken in the tenth grade can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

A CSU Eligibility Index (EI) can be calculated by multiplying a grade point average by 800 and adding your total score on the **mathematics and critical reading scores** of the SAT. Students who took the ACT, multiply your the grade point average by 200 and add ten times the ACT composite score. Persons who are California high school graduates (or residents of California for tuition purposes), need a minimum index of 2900 using the SAT or 694 using the ACT. The Eligibility Index Table illustrates several combinations of required test scores and averages.

For admission to terms during the 2007-2008 college year, the university has no plans to include the writing scores from either of the admissions tests in the computation of the CSU Eligibility Index.

Persons who neither graduated from a California high school nor are a resident of California for tuition purposes, need a minimum index of 3502 (SAT) or 842 (ACT). Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

An applicant with a grade point average of 3.00 or above (3.61 for non-residents) is not required to submit test scores. However, all applicants for admission are urged to take the SAT or ACT because campuses use these test results for advising and placement purposes and may require them for admission to impacted majors or programs. Impacted CSU campuses require SAT or ACT scores of all applicants for freshman admission.

### Provisional Admission

CSU Channel Islands may provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and planned for the senior year. The campus will monitor the senior year of study to ensure that admitted students complete their senior year of studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official

transcript after graduation to certify that all course work has been satisfactorily completed. Official high school transcripts must be received prior to deadline set by the university. In no case may documentation of high school graduation be received any later than the census date for a student's first term of CSU enrollment. A campus may rescind admission decisions, cancel financial aid awards, and cancel any university registration for students who are found not to be eligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-provisional) admission when the university verifies that they have graduated and received a diploma from high school, have a qualifiable minimum eligibility index, have completed the comprehensive pattern of college preparatory "a-g" subjects, and, if applying to an impacted program, have met all supplementary criteria.

**ELIGIBILITY INDEX TABLE FOR CALIFORNIA HIGH SCHOOL GRADUATES  
OR RESIDENTS OF CALIFORNIA**

GPA	ACT Score	SAT I Score	GPA	ACT Score	SAT I Score	GPA	ACT Score	SAT I Score	GPA	ACT Score	SAT I Score	GPA	ACT Score	SAT I Score
3.00 and above qualifies with any score			2.81	14	660	2.60	18	820	2.39	22	990	2.18	26	1160
			2.80	14	660	2.59	18	830	2.38	22	1000	2.17	26	1170
			2.79	14	670	2.58	18	840	2.37	22	1010	2.16	27	1180
2.99	10	510	2.78	14	680	2.57	18	850	2.36	23	1020	2.15	27	1180
2.98	10	520	2.77	14	690	2.56	19	860	2.35	23	1020	2.14	27	1190
2.97	10	530	2.76	15	700	2.55	19	860	2.34	23	1030	2.13	27	1200
2.96	11	540	2.75	15	700	2.54	19	870	2.33	23	1040	2.12	27	1210
2.95	11	540	2.74	15	710	2.53	19	880	2.32	23	1050	2.11	28	1220
2.94	11	550	2.73	15	720	2.52	19	890	2.31	24	1060	2.10	28	1220
2.93	11	560	2.72	15	730	2.51	20	900	2.30	24	1060	2.09	28	1230
2.92	11	570	2.71	16	740	2.50	20	900	2.29	24	1070	2.08	28	1240
2.91	12	580	2.70	16	740	2.49	20	910	2.28	24	1080	2.07	28	1250
2.90	12	580	2.69	16	750	2.48	20	920	2.27	24	1090	2.06	29	1260
2.89	12	590	2.68	16	760	2.47	20	930	2.26	25	1100	2.05	29	1260
2.88	12	600	2.67	16	770	2.46	21	940	2.25	25	1100	2.04	29	1270
2.87	12	610	2.66	17	780	2.45	21	940	2.24	25	1110	2.03	29	1280
2.86	13	620	2.65	17	780	2.44	21	950	2.23	25	1120	2.02	29	1290
2.85	13	620	2.64	17	790	2.43	21	960	2.22	25	1130	2.01	30	1300
2.84	13	630	2.63	17	800	2.42	21	970	2.21	26	1140	2.00	30	1300
2.83	13	640	2.62	17	810	2.41	22	980	2.20	26	1140	Below 2.00 does not qualify for regular admission		
2.82	13	650	2.61	18	820	2.40	22	980	2.19	26	1150			

The CSU uses only the SAT mathematics and critical reading scores in its admission eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses.

### SUBJECT REQUIREMENTS

The California State University requires that first-time freshman applicants complete, with grades of C or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

- 2 years of social science, including 1 year of U.S. history, or U.S. history and government
- 4 years of English
- 3 years of math (algebra, geometry and intermediate algebra)
- 2 years of laboratory science (1 biological and 1 physical, both with labs)

- 2 years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence)
- 1 year of visual and performing arts: art, dance, drama/theater, or music
- 1 year of electives: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, and visual and performing arts and included on the UC/CSU "a-g" list.

### High School Students

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and the appropriate



campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given specific program and does not constitute the right to continued enrollment.

### Transfer Requirements

Students who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower division transfer students. Students who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper division transfer students. Students who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet those admission requirements. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the campus to which the applicant seeks admission.

### Lower Division Transfer Requirements

Generally, applicants will qualify for admission as a lower division transfer student if they have a grade point average of at least 2.0 (C or better) in all transferable units attempted, are in good standing at the last college or university attended, and meet any of the following standards:

1. Will meet the freshman admission requirements (grade point average and subject requirements) in effect for the term to which they are applying (see "Freshman Requirements" section); or
2. Were eligible as a freshman at the time of high school graduation except for the subject requirements, and have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subjects.

Applicants who graduated from high school prior to 1988 should contact the Admission Office to inquire about alternative admission programs.

### Making Up Missing College Preparatory Subject Requirements

Lower division applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways:

1. Complete appropriate courses with a C or better in adult school or high school summer sessions.
2. Complete appropriate college courses with a C or better. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.
3. Earn acceptable scores on specified examinations.

Please consult with any CSU Admission Office for further information about alternative ways to satisfy the subject requirements.

Due to enrollment pressures, many CSU campuses do not admit or enroll lower division transfer students.

### Upper Division Transfer Requirements

Generally, applicants will qualify for admission as an upper division transfer student if they meet the following requirements:

1. They have a grade point average of at least 2.0 (C or better) in all transferable units attempted; and
2. They are in good standing at the last college or university attended; and they have completed at least 60 semester units of college coursework with a grade of C or better in each course to be selected from courses in English, arts and humanities, social science, science and mathematics at a level at least equivalent to courses that meet general education requirements. The 60 units must include all of the general education requirements in communication in the English language (both oral and written) and critical thinking (at least 9 semester units) and the requirement in mathematics/quantitative reasoning (usually 3 semester units) **OR** the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

### Provisional Admission

CSU Channel Islands may provisionally or conditionally admit transfer applicants based on their academic preparation and courses planned for completion. The campus will monitor the final terms to ensure that those admitted complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college level work completed. Campuses will rescind admission for all students who are found not to be eligible after the final transcript has been evaluated. In no case may such documents be received and validated by the university any later than a student's registration for their second term of CSU enrollment.

### Test Requirements

Freshman and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit must submit scores, unless exempt (see "Eligibility Index" on page 31), from either the ACT or the SAT of the College Board. Persons who apply to an impacted program may be required to submit test scores and should take the test no later than October or November. Test scores also are used for advising and placement purposes. Registration forms and dates for the SAT or ACT are available from school or college counselors or from a CSU campus testing office.

The College Board (SAT I)  
Registration Unit, Box 6200  
Princeton, New Jersey 08541  
(609) 771-7588  
[www.collegeboard.org](http://www.collegeboard.org)

ACT Registration Unit  
P.O. Box 414  
Iowa City, Iowa 52240  
(319) 337-1270  
[www.act.org](http://www.act.org)

### TOEFL Requirement

All undergraduate applicants whose native language is not English and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction

must present a score of 500 or above on the Test of English as a Foreign Language. Some majors may require a score higher than 500. Applicants taking the Computer Based Test of English as a Foreign Language must present a score of 173 or above. Some majors and some campuses may require a higher score. Some campuses may also use alternative methods of assessing English fluency.

### CSU MINIMUM TOEFL STANDARDS

	Internet	Computer	Paper
Undergraduate	61	173	500
Graduate	80	213	550

### SYSTEMWIDE PLACEMENT TEST REQUIREMENTS

The California State University requires that each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. They are designed to identify entering students who may need additional support in acquiring college entry-level English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their **first year** of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms.

Students register for the EPT and/or ELM at their local CSU campus. Questions about test dates and registration materials may be addressed to Student Life, CSU Channel Islands, One University Drive, Camarillo, CA 93012 (805) 437-8511.

### English Placement Test (EPT)

The CSU English Placement Test (EPT) is designed to assess the level of reading and writing skills of entering undergraduate students so that they can be placed in appropriate baccalaureate-level courses. The CSU EPT must be completed by all entering undergraduates, with the exception of those who present proof of one of the following:

- a score of “Exempt” on the augmented English CST, i.e. the CSU Early Assessment Program (EAP), taken in grade 11;
- a score of 550 or above on the verbal section of the College Board SAT Reasoning Test taken April 1995 or later;
- a score of 24 or above on the enhanced ACT English Test taken October 1989 or later;
- a score of 680 or above on the re-centered and adjusted College Board SAT II: Writing Test taken May 1998 or later;
- a score of 3, 4, or 5 on either the Language and

Composition or the Composition and Literature examination of the College Board Scholastic Advanced Placement program; or

- completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) written communication requirement, provided such course was completed with a grade of C or better.

### Directed Self Placement (DSP)

Directed Self Placement will be the only method used on the Channel Islands campus to place students into freshman composition courses. EPT scores will not be used. Students will be given guidance in Directed Self Placement during Orientation, and will select either English 105, Composition and Rhetoric, or the English 102, 103 Stretch Composition sequence. Completion of either English 105 or English 102 plus English 103 satisfies the freshman writing requirement.

### Entry Level Mathematics (ELM) Placement Examination

The Entry Level Mathematics (ELM) Placement Examination is designed to assess the skill levels of entering CSU students in the areas of mathematics typically covered in three years of rigorous college preparatory courses in high school (Algebra I, Algebra II, and Geometry). The CSU ELM must be completed by all entering undergraduates with the exception of those who present proof of one of the following:

- A score of “Exempt” on the augmented mathematics California Standards Test, i.e., the CSU Early Assessment Program (EAP), taken in grade 11.
- A score of “conditionally exempt” on the augmented CST, i.e. the CSU Early Assessment Program (EAP) plus successful completion of a Senior-Year Mathematics Experience (SYME).
- A score of 550 or above on the mathematics section of the College Board SAT or on the College Board SAT Subject Tests-Mathematics Tests Level I, IC (Calculator), II, or IIC (Calculator).
- A score of 23 or above on the ACT Mathematics Test.
- A score of 3 or above on the College Board Advanced Placement Calculus examination (AB or BC) or Statistics examination.
- Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) quantitative reasoning requirement provided the course was completed with a grade of C or better.

### ADULT STUDENTS

As an alternative to regular admission criteria, an applicant who is twenty-five years of age or older may be considered for admission as an adult student if he or she meets all of the following conditions:

1. Possesses a high school diploma (or has established equivalence through either the Tests of General Educational Development or the California High School Proficiency Examination).

2. Has not been enrolled in college as a full-time student for more than one term during the past five years.
3. If there has been any college attendance in the last five years, has earned a C average or better in all college work attempted.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

## **GRADUATE AND POSTBACCALAUREATE ADMISSION REQUIREMENTS**

### **Admission Requirements**

Graduate and post baccalaureate applicants may apply for a degree objective, a credential or certificate objective, or may have no program objective. Depending on the objective, the CSU will consider an application for admission as follows:

1. General Requirements – The minimum requirements for admission to graduate and post baccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations. Specifically, a student shall at the time of enrollment: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; (3) have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted; and (4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

Students who meet the minimum requirements for graduate and post-baccalaureate studies may be considered for admission in one of the four following categories:

- Post-Baccalaureate Unclassified – To enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Some departments may restrict enrollment of unclassified students because of heavy enrollment pressure. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program; or
- Post-Baccalaureate Classified, e.g. admission to an education credential program – Persons wishing

to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or

- Graduate Conditionally Classified – Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, deficiencies may be remedied by additional preparation; or
- Graduate Classified – To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

### **Graduate-Postbaccalaureate TOEFL Requirement**

All graduate and post-baccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). Some programs require a higher score. Applicants taking the Computer-Based Test of English as a Foreign Language must present a score of 213 or above. Some programs may require a higher score.

Some CSU campuses may use alternative methods for assessing fluency in English.

## **INTERNATIONAL (FOREIGN) STUDENT ADMISSION REQUIREMENTS**

The CSU must assess the academic preparation of foreign students. For this purpose, “foreign students” include those who hold U.S. temporary visas as students, exchange visitors, or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of “foreign students.” Verification of English proficiency (see the section on TOEFL Requirement for undergraduate applicants), financial resources, and academic performance are each important considerations for admission. Academic records from foreign institutions must be on file at least six months in advance of enrollment for the first term and, if not in English, must be accompanied by certified English translations. Further information can be found at: <http://www.csuci.edu/exed/international.htm>.

Priority in admission is given to residents of California. There is little likelihood of nonresident applicants, including international students, being admitted either to impacted majors or to those majors or programs with limited openings.



## OTHER APPLICANTS

### Intrasystem and Intersystem Enrollment Programs

Students enrolled at any CSU campus will have access to courses at other CSU campuses on a space available basis unless those campuses or programs are impacted. This access is offered without students being required to be admitted formally to the host campus and sometimes without paying additional fees. Although courses taken on any CSU campus will transfer to the student's home CSU campus as elective credit, students should consult their home campus academic advisors to determine how such courses may apply to their degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California Community Colleges. Additional information about these programs is available from the Enrollment Center.

### CSU Concurrent Enrollment

Matriculated students in good standing may enroll at both their home CSU campus and a host CSU campus during the same term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus.

### CSU Visitor Enrollment

Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus.

### Intersystem Cross Enrollment

Matriculated CSU, UC, or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home campus.

## HEALTH SCREENING

Entering CSU students are required to present proof of the following immunizations to the CSU campus they will be attending before the beginning of their first term of enrollment.

### Measles and Rubella

All new and readmitted students born after January 1, 1957, must provide proof of full immunization against measles and rubella prior to enrollment.

### Hepatitis B

All new students who will be 18 years of age or younger at the start of their first term at a CSU campus must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum 4 to 6 months period. If you need further details or have special circumstances, please consult the



Student Health Center at (805) 437-8828. Each incoming freshman who will be residing in on-campus housing will be required to return a form indicating that they have received information about meningococcal disease and the availability of the vaccine to prevent contracting the disease and indicating whether or not the student has chosen to receive the vaccination. These are **not** admission requirements, but are required of students as conditions of enrollment in the CSU.

## RESERVATION

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

## GENERAL INFORMATION ABOUT ADMISSION AND EVALUATION OF ACADEMIC RECORDS

### ADVANCED PLACEMENT

CSU Channel Islands grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to eight semester units (twelve quarter units) of college credit for each AP course. The exams for May 2007 will be available on the Academic Advising website ([www.csuci.edu/academics/advising](http://www.csuci.edu/academics/advising)) after publication of this catalog. The AP table included in this catalog indicates credit likely to be given. It should be viewed as a guideline only and is subject to change. Grade reports are sent automatically to CSU Channel Islands if requested by the student at exam time. The student may also order the report through the AP website at [http://www.collegeboard.com/student/testing/ap/exgrd\\_rep.html](http://www.collegeboard.com/student/testing/ap/exgrd_rep.html) or by calling (609) 771-7300 or (888) 225-5427, Mon-Fri 8 am to 4:45 pm, Eastern Time. Reports should be sent to Records and Registration.







# Schedule of Fees

CSU  
Sacramento



CSU

## SCHEDULE OF FEES 2007-08

Legal residents of California are not charged tuition. The following reflects applicable systemwide fees and nonresident tuition for both the quarter and the semester. (Fees are subject to change without notice.)

### ALL STUDENTS

Application Fee (nonrefundable), payable by check or money order at time application is made: \$55

### Proposed Fees for 2007-2008

The Governor's Budget proposal for the 2007-08 academic year includes revenue assumptions associated with a 10% increase in fee rates. These fee rates were approved at the March 2007 Board of Trustee meeting. Fee rates will become final upon approval of the state budget.

All campuses except California State University, Stanislaus:

Units	Per Semester	Per Year
<b>Undergraduate</b>		
6.1 or more	\$1,386	\$2,772
0 to 6.0	\$806	\$1,612
<b>Credential Program Participants</b>		
6.1 or more	\$1,608	\$3,216
0 to 6.0	\$934	\$1,868
<b>Graduate</b>		
6.1 or more	\$1,707	\$3,216
0.1 to 6.0	\$990	\$1,980

### Nonresident Students (U.S. and Foreign)

Nonresident tuition (in addition to other fees charged all students) for all campuses:

	Semester
Charge Per Unit	\$339

The total nonresident tuition paid per term will be determined by the number of units taken. The maximum nonresident tuition per academic year (as of 2006-07) is \$10,170.

Mandatory systemwide fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

### Additional CSUCI Fees Per Semester

Associated Student Fee .....	\$62.00
Student Body Center Fee .....	\$70.00
Instructionally Related Activities .....	\$50.00
Health Facilities Fee .....	\$3.00
Student Health Services Fee .....	\$60.00
Materials, Services & Facilities Fee .....	\$35.00

### Other CSUCI Fees and Charges

Application fee .....	\$55.00
*Breakage Card Fees .....	\$25.00
Campus ID card .....	\$15.00
Check Return Fee .....	\$25.00
Credit Card Transaction Dishonored Fee .....	\$25.00
Diploma Fee .....	\$45.00
Freshman Orientation Fee .....	\$40.00
Housing Installment Plan Fee .....	\$33.00
Intent to Enroll .....	\$100.00
*Lab Fees .....	\$15.00 - \$75.00
Late Payment Fee .....	\$25.00
Late Registration Processing Fee .....	\$25.00
Library Fee .....	varies
Registration Installment Plan Fee .....	\$33.00
Replacement Campus ID Card .....	\$15.00
Parking Permit Replacement Fee .....	\$10.00
Transfer Orientation Fee .....	\$25.00
(* Refundable)	

### CREDIT CARDS

VISA and Master Charge bank credit cards may be used for payment of student fees.

### REFUND OF FEES INCLUDING NONRESIDENT TUITION

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 of Title 5, *California Code of Regulations*. For purposes of the refund policy, mandatory fees are defined as those systemwide fees and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-support programs at the California State University (courses offered through extended education) are governed by a separate policy established by the University.

In order to receive a full refund of mandatory fees, including nonresident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for canceling registration and dropping classes is available in the *Schedule of Classes*.

For state-supported semesters, quarters, and non-standard terms or courses of four (4) weeks or more, a student who withdraws during the term in accordance with the university's established procedures will receive a refund of mandatory fees, including nonresident tuition, based on the portion of the term during which the



student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition.

For state-supported semesters, quarters, and non-standard terms or courses of less than four (4) weeks, no refunds of mandatory fees and nonresident tuition will be made unless a student cancels registration or drops all classes prior to the first day in accordance with the university's established procedures and deadlines.

Students will also receive a refund of mandatory fees, including nonresident tuition, under the following circumstances:

- The tuition and mandatory fees were assessed or collected in error;
- The course for which the tuition and mandatory fees were assessed or collected was cancelled by the university;
- The university makes a delayed decision that the student was not eligible to enroll in the term for which mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the university for a refund demonstrating exceptional circumstances and the chief financial officer of the university or designee may authorize a refund if he or she determines that the fees and tuition were not earned by the university.

Information concerning any aspect of the refund of fees may be obtained from the University Cashier.

## FEES AND DEBTS OWED TO THE INSTITUTION

Should a student or former student fail to pay a fee or a debt owed to the institution, the institution may "withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt" until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381).

Prospective students who register for courses offered by the university are obligated for the payment of fees associated with registration for those courses. Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student fees including any tuition for the reservation of space in the course.

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. If a person believes he

or she does not owe all or part of an asserted unpaid obligation that person may contact the business office. The business office, or another office on campus to which the business office may refer the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

For more information or questions, please contact Colleen Nickles, Senior Director of Financing & Treasury in the CSU Chancellor's Office, at (562) 981-4579 or [cnickles@calstate.edu](mailto:cnickles@calstate.edu).

## FEE WAIVERS

The California Education Code includes provisions for the waiver of mandatory systemwide fees as follows:

**Section 68120** – Qualifying children and surviving spouses/registered domestic partners of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships);

**Section 66025.3** – Qualifying children, spouses/registered domestic partners, or unmarried surviving spouses/registered domestic partners of a war period veteran of the U.S. military who is totally service-connected disabled or who died as a result of service-related causes; children of any veteran of the U.S. military who has a service-connected disability, was killed in action, or died of a service-connected disability and meets specified income provisions; any dependents or surviving spouse/registered domestic partner who has not remarried of a member of the California National Guard who in the line of duty and in active service of the state was killed or became permanently disabled or died of a disability as a result of an event while in active service of the state; and undergraduate students who are the recipient of or the child of a recipient of a Congressional Medal of Honor and meet age and income restrictions; and

**Section 68121** – Qualifying students enrolled in an undergraduate program who are the surviving dependent of any individual killed in the September 11, 2001, terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Students who may qualify for these benefits should contact the Admissions/Registrar's Office for further information and/or an eligibility determination.

## DETERMINATION OF RESIDENCE FOR NONRESIDENT TUITION PURPOSES

The law governing residence for tuition purposes at the California State University is California Education Code sections 68000-68090, 68120-68134, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41916. This material can be viewed on the Internet by accessing the California State University's website at [www.calstate.edu/GC/resources.shtml](http://www.calstate.edu/GC/resources.shtml).

Each campus's Admissions Office is responsible for determining the residence status of all new and returning students based on the Application for Admission, Residency Questionnaire, Reclassification Request Form, and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residence for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least one full year prior to the residence determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residence for tuition purposes. A minor normally derives residence from the parent(s) they reside with or most recently resided with.

Evidence demonstrating intent may vary from case to case but will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting an apartment where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

Non-citizens establish residence in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residence requirements are contained in California Education Code sections 68070-68084 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906-41906.5, and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and most students who have attended three years of high school in California and graduated

or attained the equivalent. Whether an exception applies to a particular student cannot be determined before the submission of an application for admission and, as necessary, additional supporting documentation. Because neither campus nor Chancellor's Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire including questions concerning their financial dependence, which will be considered along with physical presence and intent in determining reclassification.

Residence determination dates are set each term. The residence determination dates for the four stages of CalStateTEACH are as follows:

Stage 1 September 20

Stage 2 January 5

Stage 3 June 1

Stage 4 September 20

Students classified as non-residents may appeal a final campus decision within 120 days of notification by the campus. A campus residence classification appeal must be in writing and submitted to:

The California State University  
Office of General Counsel  
401 Golden Shore, 4<sup>th</sup> Floor  
Long Beach, CA 90802-4210

The Office of General Counsel can either decide the appeal or send the matter back to the campus for further review.

Students incorrectly classified as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations.

Resident students who become nonresidents or who no longer meet the criteria for an exception must immediately notify the Admissions Office.

Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residence for tuition purposes in California between the time this information is published and the relevant residence determination date. Students are urged to review the statutes and regulations stated above.

## AVERAGE SUPPORT COST PER FULL-TIME EQUIVALENT STUDENT AND SOURCES OF FUNDS

The total support cost per full-time equivalent student includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of full-time equivalent students (FTES).

The total CSU 2006/07 final budget amounts were \$2,788,910,000 from state General Fund appropriations (not including capital outlay funding), \$1,016,931,000 from State University Fee Revenue, \$403,278,000 from other fee revenues, and reimbursements for a total of \$4,209,119,000. The number of projected 2006/07 full-time equivalent students (FTES) is 348,262. The number of full-time equivalent students is determined by dividing the total academic student load by 15 units per term (the figure used here to define a full-time student's academic load).

The 2006/07 average support cost per full-time equivalent student based on General Fund appropriation and State University Fee revenue only is \$10,928 and when including all sources as indicated below is \$12,086. Of this amount, the average student fee support per FTE is \$3,551, which includes all fee revenue in the state higher education fund (e.g. State University Fee, nonresident tuition, application fees, miscellaneous course fees).

2006/07	Amount	Average Cost per FTE Student	%
Total Cost of Education	\$4,209,119,000	\$12,086	100
• State Appropriation	2,788,910,000	8,008	66
• Student Fee Support <sup>1</sup>	1,016,931,000	2,920	24
• Reimbursements	403,278,000	1,158	10

<sup>1</sup>Student fee support represents campus 2006/07 final budget submitted State University Fee revenue. The other income and reimbursements represent campus other fee 2006/07 final budget revenues submitted, as well as reimbursement in the CSU Operating Fund. The average CSU 2006/07 academic year, resident, undergraduate student fees required to apply to, enroll in, or attend the university is \$3,199. However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or nonresident.

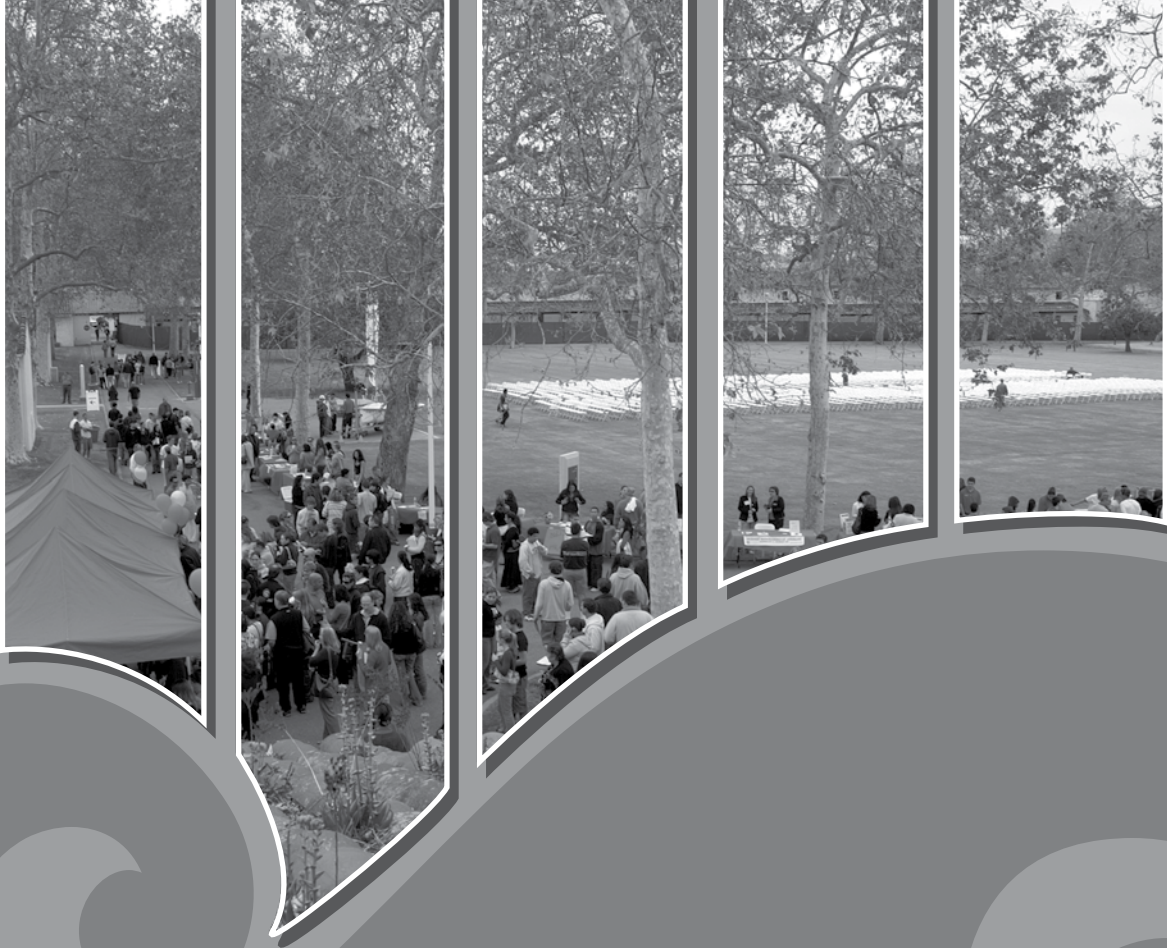
## PROCEDURE FOR THE ESTABLISHMENT OR ABOLISHMENT OF A STUDENT BODY FEE

The law governing the California State University provides that fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). A student body center fee may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (Education Code, Section 89304). The student body fee was established at CSU Channel Islands by student referendum in 2003. The campus President may adjust the student body association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose (Education Code, Section 89300). The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus President containing the signatures of 10 percent of the regularly enrolled students at the University. Once bonds are issued, authority to set and adjust student body center fees is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code, sections 90012, 90027, and 90068. Student body association fees support a variety of cultural and recreational programs, childcare centers, and special student support programs.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committee and a student referendum. The campus President may use alternate consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus President. The President may also request the Chancellor to establish the mandatory fee.







# Financial Aid

CSUC





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## FINANCIAL AID

### Location

Sage Hall, Enrollment Center, Room 1020  
(805) 437-8530  
Fax: (805) 437-8509  
[financial.aid@csuci.edu](mailto:financial.aid@csuci.edu)

The Financial Aid office assists students in obtaining financial aid resources to meet their educational costs. Students interested in financial aid must complete a Free Application for Federal Student Aid (FAFSA), which can be obtained in the Enrollment Center, although the recommended method of application is through the online application at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). A variety of financial aid resources are available to students, including grants, loans, federal work study, and scholarships. After students have completed and submitted the FAFSA, they may be considered for the following:

### Grants

Federal or state funds that do not have to be repaid.

- Federal Pell Grants are awarded to eligible students with financial need, who have not already earned a bachelor's degree or are working toward a teaching credential.
- Cal Grants are awarded to California residents with financial need and who meet the California Student Aid Commission scholastic requirements.
- State University Grants are awarded to California residents. Students are considered for the State University Grant based on their need and the availability of funds.
- Academic Challenge Grants (ACG) are awarded to first and second-year, Pell-eligible students who have completed a rigorous high school program and maintain a cumulative GPA of 3.0 or higher and are U.S. Citizens.
- SMART Grants are awarded to third and fourth-year Pell-eligible students who are majoring in either math or science, maintain a cumulative 3.0 GPA, and are U.S. Citizens.

### Loans

Federal Stafford Loans include the subsidized and unsubsidized loan programs which provide low interest, long-term loans to eligible students through selected lenders. Federal Subsidized Stafford loans are available to students based on financial need. Interest is paid by the federal government (subsidized) while students are enrolled at least half-time and during their six-month grace period after leaving school. Unsubsidized Federal Stafford Loans are available to all students without regard to income. Interest is paid by the student or added to the loan amount that will be repaid later.

### Federal Work Study

The Federal Work Study (FWS) Program is a financial aid program funded by the federal government and is intended to provide part-time employment opportunities for eligible students who need additional financial

resources to pursue a college education. The offer of work study does not guarantee that a job will be available that matches the student's class schedule or desired field. In some cases, if a student is unable to find work, student loans can be increased if the student has not already borrowed the maximum for the year.

### Scholarships

The University, in participation with the community, has an endowment that provides scholarships, which are based on academic excellence, financial need and community service. This annual scholarship opportunity takes place each spring and applications are open to both new and continuing students. Students may complete a scholarship application, which is found on the Financial Aid website.

### ENDOWED SCHOLARSHIPS

#### President's Scholars Program

Established by a generous gift from the Pierre Claeysens family, this program provides scholarships to entering freshmen students who demonstrate outstanding academic achievement. Applicants must be residents of California and have a 3.75 high school GPA and a minimum score of 1200 on the SAT exam or 26 on the ACT exam. This scholarship is renewable for up to four years.

#### Airborne Technologies Endowed Scholarship

Awarded to students from Ventura County, and preferably from Oxnard, who are studying business. A 3.0 minimum GPA is required and financial need may be considered.

#### James Basile Endowed Scholarship

Awarded to students who graduated from public high school in Simi Valley or Moorpark, CA. Preference given to students who have had a parent killed or disabled while actively engaged in public service such as law enforcement or fire fighting. Financial need and academic potential are considered. Minimum GPA is 3.0

#### Bernard and Barbara Bobitch Scholarships in the Health Sciences

Awarded to students in biology, chemistry, or related fields that enable them to prepare for careers in a health profession. Students must be legal citizens of the U.S. with a minimum GPA of 3.0 from high school or community college. The scholarship may be used for purposes other than fees, such as books, computers, childcare, or living expenses. It is renewable for up to four years for a freshman, or two years for a community college transferee.

#### Bostwick Endowed Scholarship

Awarded to students with a 3.0 minimum GPA, demonstrated leadership and community service. Financial need may be considered.

### **Citizens for Youth in Ventura County Endowed Scholarship Fund**

Awarded to a Ventura County high school graduate with a minimum GPA of 2.0 from high school or community college. Voluntary school or community service and financial need will be considered. It is renewable up to four years for a freshman, two years for a community college transferee, or two years for a graduate student.

### **California Strawberry Festival Endowed Scholarship**

Awarded to students who are Ventura County residents and whose parent(s) have been employed by the local strawberry industry for at least one season. Students must have a 3.0 minimum GPA and demonstrate financial need. It is renewable for up to four years for freshmen, or two years for transfer or graduate students.

### **City of Camarillo Endowed Scholarship**

Awarded to a student from Camarillo who is studying to become a teacher. A minimum GPA of 3.0 is required. Financial need may be considered.

### **Hammer Family Trust Endowed Scholarship**

Awarded to students preparing for careers in engineering, mathematics, or teaching. Students must have a 3.0 minimum GPA and demonstrate leadership and community involvement.

### **Dorothy Huston Nursing Scholarship**

Awarded to students studying nursing. Minimum GPA of 3.0 is required. Scholarship is renewable up to 4 years for freshmen, 2 years for transfer students.

### **Carolyn and Harry Lundgren Angel Endowed Scholarship**

Awarded to students studying math or science with a focus on a health-related career. Minimum GPA of 3.0 is required and financial need may be considered.

### **Oxnard Ambassadors Endowed Scholarship**

Awarded to business students who are Oxnard residents. A minimum GPA of 3.0 is required. Individual initiative in community service or academic achievement and financial need are all considered. Scholarship is renewable for up to 4 years for freshmen, 2 years for transfer students.

### **Poe Family Endowed Scholarship**

Awarded to students studying in the sciences. A minimum GPA of 3.0 is required. Financial need may be considered.

### **Tiplady-Burgess Endowed Scholarship**

One award to a nursing student and one award to a student in the EOP program. A minimum GPA of 3.0 is required for both awards and financial need may be considered.

## **GENERAL SCHOLARSHIPS**

The CSUCI Foundation provides funds for general scholarships for qualified students. Minimum GPA is 3.0.

Please contact the Financial Aid Office for further information on the above scholarships. Scholarship information is also available on the CSUCI website. Visit [www.csuci.edu](http://www.csuci.edu) and see the scholarships page under Financial Aid.

Additional scholarships are available through the Ventura County Community Foundation. Please visit [www.vccf.org](http://www.vccf.org) for a list of Ventura County scholarships or contact them directly at (805) 988-0196.





# Student Affairs

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## DIVISION OF STUDENT AFFAIRS

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### Mission

Placing students at the center of *their* educational experience, the Division of Student Affairs supports and enhances learning and the University community through quality activities, facilities, programs, and services.

### OFFICE OF THE VICE PRESIDENT FOR STUDENT AFFAIRS

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#### Location

Bell Tower Building, Office 2560  
(805) 437-8536  
Fax: (805) 437-8549

The purpose of the Office of the Vice President for Student Affairs is to recommend policies and procedures that will ensure a coordinated delivery and assessment system of student services through all departments within the Division of Student Affairs (DSA) which includes the areas of Enrollment Services and Student Life. This includes tracking and reporting of budgets and expenditures; implementing or managing special projects; producing and distributing internal and external student communication to pertinent constituencies throughout the University and surrounding communities; and hiring, training and development of staff within the DSA. The Office of the Vice President for Student Affairs, in its support of the academic mission of the institution, also provides co-curricular education initiatives and coordinates program assessment and evaluation for all areas within the Division.

### ASSESSMENT AND CO-CURRICULAR EDUCATION

#### Location

Bell Tower Building, Office 2565  
(805) 437-8536  
Fax: (805) 437-8549

Cal State Channel Islands' student expectations of our programs and services are quite clear; they expect exciting, engaging, and thoughtful student activities that are also fun; they expect personal counseling services that offer effective tools for coping with the demands of college life; they expect disability accommodation resources that are both sensitive and responsive to their special needs; they expect career services that guide them in making informed career decisions; they expect student health services to provide expert medical care; they expect financial aid services to assist them in reaching their educational goals by providing guidance and resources; they expect enrollment services that maintain timely and accurate records on their enrollment, academic progress, and accomplishments while ensuring the privacy and security of their records; they expect recruitment services that provides accurate information to enable them to make an informed decision about

their college choice. The Division of Student Affairs has received the message. In response, we promise to ensure that every one of our programs, services, and activities results in relevant and quality outcomes for our students. The office of Assessment and Co-curricular Education was created to coordinate the Division of Student Affairs' assessment efforts as it delivers on its promises to students.

Under the direction of the Vice President for Student Affairs, the Assistant Vice President for Student Affairs, Assessment and Co-curricular Education, is responsible for the administration and oversight of the Division of Student Affairs' program assessment and evaluation and student learning and development. The Assistant Vice President works closely with each department within the Division to help translate student needs and expectations into positive outcomes for students. In collaboration with program staff and administrators, appropriate assessment methods are identified and put into action; as a result, program staff, as well as our students, is able to judge how well we are meeting the needs and expectations of students. The Assistant Vice President also works in partnership with members of the Division of Academic Affairs to develop co-curricular programs and projects that lead to successful student learning outcomes.

### EDUCATIONAL TALENT SEARCH

#### Location

Bell Tower Building, Office 2705  
(805) 437-3171  
Fax: (805) 437-8549

Educational Talent Search is a student assistance program funded by the U.S. Department of Education. This program identifies and assists individuals from disadvantaged backgrounds who have the potential to succeed in higher education. The program provides academic, career, and financial counseling to its participants and encourages them to graduate from high school and continue on to the postsecondary institution of their choice. Talent Search also serves high school dropouts by encouraging them to reenter the education system and complete their education. The goal of Talent Search is to increase the number of youths from disadvantaged backgrounds who complete high school and enroll in postsecondary education institutions of their choice.

### HOUSING AND RESIDENTIAL EDUCATION

#### Location

Santa Cruz Village  
(805) 437-2733  
Fax: (805) 437-3234

The residence halls are not merely a place to eat and sleep. It is a community made up of students from a variety of ethnic, cultural, and socio-economic backgrounds. The on-campus living experience at CSU Channel Islands is an integral part of the learning and educational process of students. In fact, the residence

halls may provide one of the most rewarding and developmental experiences that students have at CSU Channel Islands.

Student residential living at CSUCI is unique in concept and design. To maintain the architectural integrity of the campus, each residential complex has been designed to reflect the Spanish-style architecture of the original buildings on campus that date back to the 1930's. Unlike traditional campus housing, the University has constructed living arrangements that are tailored for today's academic-minded student who wants quality on-campus housing at a reasonable price. There are two villages that offer an array of amenities, targeted toward enhancing the student's University experience.

### **Santa Cruz Village**

As the University's second phase of student housing, Santa Cruz Village will be available to the 2007 freshmen class, opening its doors to 460 new residents. With double-occupancy, two-bedroom suites, this complex will accommodate all incoming freshmen students. This new facility has been designed to encourage interaction and activity in first-year students. Additional amenities include several common areas for activities such as community movie night, X-box challenges, and art. Additionally, a small studio has been constructed to allow for Pilates and Yoga classes, while a fitness area with both cardiovascular and strength training equipment is located down the hall.

### **Anacapa Village**

Reserved for our experienced students, Anacapa Village is comprised of 87 four-bedroom, two bath apartments which houses sophomores, juniors, and seniors. Each apartment has a full kitchen and furnished living room. Residents utilize their kitchens to have dinner parties and late night cookie baking sessions. The kitchens are one of the great meeting places where friendships are made and new cooking skills are acquired. Anacapa Village also has an array of common areas where students may relax or study. Many of our residents spend free time lounging by the pool and spa.

Students who are interested in learning more about the apartment-style residence halls of CSUCI and their amenities should contact Housing and Residential Education at (805) 437-2733 or via e-mail at [student.housing@csuci.edu](mailto:student.housing@csuci.edu).

For off-campus housing information, please visit: <http://csuci.och101.com/>. You will find apartments and rooms for rent on this site. If you have any issue or questions about this site, please contact the Student Leadership and Community office at (805) 437-8998.

## **UNIVERSITY OUTREACH**

### **Location**

Bell Tower Building, Office 1705  
(805) 437-3155  
Fax: (805) 437-8529

The University Outreach Program motivates and informs K-8 students of postsecondary educational options and serves to create a college-going culture in Ventura County. The goal of the program is to offer positive reinforcement to develop a commitment to higher education, the resources and awareness of educational options, and encouragement for students to plan and prepare academically and financially for college.

## **ENROLLMENT SERVICES**

### **Location**

Sage Hall, First Floor, Office 1020  
Telephone: (805) 437-8500  
Fax: (805) 437-8509

The Enrollment Center includes Admissions and Recruitment, Financial Aid, and Records and Registration. Student questions concerning graduation, degree audit, scholarships, federal work study, veterans' benefits, and California residency eligibility may be answered here.

## **ADMISSIONS AND RECRUITMENT**

### **Admissions**

#### **Location**

Sage Hall, First Floor, Office 1020  
(805) 437-8500  
Fax: (805) 437-8509  
[admissions@csuci.edu](mailto:admissions@csuci.edu)

The Admissions office accepts and processes admission applications for both undergraduate and post-baccalaureate programs. Eligibility for admission to CSUCI is governed by Title 5 of the California Code of Regulations and is addressed previously in this catalog.

### **Recruitment**

#### **Location**

Sage Hall, First Floor, Office 1044  
(805) 437-8520 or (805) 437-CSCI (2724)  
Fax: (805) 437-8519  
[prospective.student@csuci.edu](mailto:prospective.student@csuci.edu)

The Recruitment office develops and maintains positive relationships to recruit, enroll, and retain a qualified and diverse undergraduate and graduate student body. Recruitment activities include college fairs, campus tours, and presentations to local high schools, community colleges, and community organizations. Recruitment counselors are available to assist prospective students in understanding the requirements necessary to obtain admission to CSU Channel Islands. We offer the following services:

- Pre-admissions counseling appointments for students who have yet to apply to the University for individual guidance through the admissions and application process.
- Campus tours are offered Monday through Friday at 11:00 am and 2:00 pm. Weekend tours are available at noon on the first Saturday of every month, excluding holiday weekends. A visit to our campus provides an opportunity for prospective students to view the campus and familiarize themselves with the various resources the University has to offer. Each tour is led by a Cal State Channel Islands student.
- Group campus visits are designed to provide high school and college students the opportunity to learn about how CSU Channel Islands can fit into their higher education plans. Included is a presentation given by an admission counselor, and a campus tour. Group campus visits are available only by appointment and is limited to a maximum of 60 students.

Prospective students are invited to become a ***Dolphin VIP***, which will allow them to create a customized webpage where they can receive up-to-date information about CSUCI, including their selected academic majors, admissions requirements, deadline reminders, and invitations to campus events. After applying, applicants can track his/her admissions file status. Visit [www.csuci.edu/goCSUCI](http://www.csuci.edu/goCSUCI) to establish a ***Dolphin VIP*** account.

## FINANCIAL AID

### Location

Sage Hall, First Floor, Office 1020  
(805) 437-8530  
Fax: (805) 437-8509  
[financial.aid@csuci.edu](mailto:financial.aid@csuci.edu)

The Financial Aid office assists students in obtaining financial aid resources to meet their educational costs. Students interested in financial aid must complete a Free Application for Federal Student Aid (FAFSA), which can be obtained in the Enrollment Center, although the recommended method of application is through the online application at: [www.fafsa.ed.gov](http://www.fafsa.ed.gov). A variety of financial aid resources are available to students, including grants, loans, federal work study, and scholarships. After students have completed and submitted the FAFSA, they may be considered for the following:

## RECORDS AND REGISTRATION

### Location

Sage Hall, First Floor, Office 1020  
(805) 437-8500  
Fax: (805) 437-8509

The Records and Registration office maintains timely and accurate records on enrollment, and the academic progress and accomplishments of its students, while maintaining the privacy and security of those records.

## Registration

Registration activities for new and continuing students, including eligibility for registration and assignment of registration appointments, is managed by the Records and Registration office. Students enroll in classes on the web through myCSUCI.

## Graduation

Verification of degree completion requirements is a function of the Records and Registration office. Students must file for graduation for the term in which they will have completed all requirements. Application for graduation must be made by the published deadline.

## Veterans Affairs

Students who are eligible for benefits as a veteran, dependent of a veteran, or reservist should contact our V.A. Specialist in the Enrollment Center. Services available include assistance in applying for educational benefits and education certification. Students planning to attend CSU Channel Islands should contact their local Veterans Services office or the regional Veterans Affairs office at: [www.gibill.va.gov](http://www.gibill.va.gov). Once approved by the local or regional V.A. office, students who are registered in classes at CSU Channel Islands must make an appointment to complete their certification paperwork. This paperwork must be completed each semester. For additional information, please contact Enrollment Services.





## STUDENT LIFE

### Location

Bell Tower Building, Office 1804  
(805) 437-8510  
Fax: (805) 437-8529  
(V/TTY): (805) 437-8510

Our college years are often among the most profound and exhilarating times of our lives. The prospect of experiencing new ideas, making new friends, and exploring new roles can be very exciting. But college life can also include confusion and uncertainty that challenges our personal and social limits. In Student Life, we view these challenges as opportunities for learning and personal development. Our office offers services and co-curricular programs that are designed not only to develop students within each of the Dimensions of Development but also to help students cope with college life and prepare for the challenges of the 21st century.

Student Life provides learning opportunities that encourage and empower students to become competent, responsible and involved citizens. Our programs and services include: Alcohol and Other Drugs Awareness Programs; Associated Students, Inc. (Student Government, Student Programming Board, Channel Islands View (student newspaper), and the Nautical Yearbook); Career Development Services; Disability Accommodation Services; Educational Opportunity Program (EOP); Interfaith Council; Judicial Affairs; the Multicultural & Women's and Gender Student Center; New Student and Transition Programs; Personal Counseling Services; Recreation and Leisure Services; Student Health Services; Student Leadership; student clubs and organizations; and The Hub (temporary Student Union).

### ASSOCIATED STUDENTS, INC.

#### Location

The Hub  
(805) 437-8832  
Fax: (805) 437-8529

All registered students are members of Associated Students Incorporated (ASI) and pay both an associated student fee and a student body center fee as part of their registration. ASI is the umbrella organization for Student Government, Student Programming Board, the student newspaper, Channel Islands View, and the Nautical Yearbook.

Student Government (SG) is comprised of elected student leaders including a president, vice president, senate members, and ASI board members. The student government sets policy, provides student service programs, contributes input on University policies, and recommends students to serve on University advisory boards.

The Student Programming Board (SPB) is a select group of students who assist in the creation of activities and events on the CSUCI campus. Their purpose is to plan, promote and produce a variety of student centered programs that are educational, cultural and social in nature.

The Channel Islands View student newspaper is written by and for students and is a forum for discussion of current topics as well as campus issues and events.

The Nautical Yearbook provides the campus community with a journalistically sound annual yearbook that is a culmination of the past academic year.

## CAREER DEVELOPMENT SERVICES

### Location

Bell Tower Building, Office 1865  
(805) 437-3270  
Fax: (805) 437-8899

The purpose of Career Development Services is to assist students and other designated clients through all phases of their career development: to provide leadership to the institution on career development concerns; to develop positive relationships with employers and external constituencies; and to support institutional outcomes assessment and relevant research endeavors. Students are strongly encouraged to begin developing their unique Career Profile, as well as to start building their Co-Curricular Portfolio during their freshman year. However, students at any stage of career development can receive assistance in taking the next step towards a satisfying and rewarding career. Career exploration, planning, and job preparation resources include:

- Computer Assisted Career Guidance/Research EUREKA, and Career Cruising
- One-on-One Career Counseling
- Co-Curricular Portfolio Development
- Career Resource Library
- Career Development Workshops (e.g. Resume Writing, Interview Strategies, Dress for Success)
- Internship Opportunities
- Resume Development
- Career and Graduate School Fairs
- Volunteer Opportunities
- Student Employment

## DISABILITY ACCOMMODATION SERVICES

### Location

Bell Tower Building  
(805) 437-8510  
Fax: (805) 437-8529  
(V/TTY): (805) 437-8510  
[accommodations@csuci.edu](mailto:accommodations@csuci.edu)

California State University Channel Islands values student diversity and is committed to providing equal access and opportunity to all educational programs and events. Disability Accommodation Services

(DAS) serves as a liaison to students, CSU academic departments and the campus community to ensure that our university is accessible to all qualified students with various disabilities including, but not limited to, physical, learning and psychological.

Reasonable accommodations and services are provided to students who choose to self identify determined on disability verification and consultation with the student. Services and accommodations are also governed under section 504 of the Rehabilitation Act of 1973, Americans with Disabilities Act of 1990, state requirements, CSU and CSUCI policies. Please contact DAS or visit the website at <http://www.csuci.edu/disability/index.htm> regarding required documentation and policies.

To be eligible to receive services, students must meet with the DAS coordinator for intake and disability verification. It is the responsibility of the student to contact DAS each semester for which they requesting accommodations, even if the same service/ accommodation was provided the previous semester. The following services and accommodations are provided in a respectful and confidential manner that promotes independence, self-advocacy and accountability:

- Disability management counseling
- Computer lab with assistive software
- Test proctoring and extended test time
- Scribes for examinations
- Alternate format services
- Note-takers or taped lectures
- Readers/Books on Tape
- Sign language interpreters
- Realtime captioning
- Priority registration
- Campus and community resources

If you are a student requesting further information regarding our services, please contact Disability Accommodation Services by calling (805) 437-8510 or visiting our web-site at <http://www.csuci.edu/disability/index.htm>.

### **Computers for Visually Impaired Users**

Several computers throughout the campus are equipped with screen reading software and are available to visually impaired students or members of the public for use in the following locations: Admissions and Recruitment, Disability Accommodation Services Lab, Human Resources, Information Technology Lab Rooms 1958 and 1972, Library, and the Math Tutoring Center.

Note: If you are an employee of the University or campus visitor with a disability requesting accessibility information, please contact the Associate Vice President, Human Resources Programs, at (805) 437-8490.

## **EDUCATIONAL OPPORTUNITY PROGRAM**

### **Location**

Bell Tower Building, Office 1885  
(805) 437-8939  
Fax: (805) 437-8529

The Educational Opportunity Program (EOP) is designed to improve access and retention of low income and educationally disadvantaged students by providing active and targeted support aimed at increasing academic accomplishment and individual empowerment. The ultimate goal is to provide incoming students from disadvantaged backgrounds with the tools that will help them succeed in college and ultimately graduate from California State University Channel Islands.

Student preparation and retention programs such as the Educational Opportunity Program provide the information necessary for students to learn about higher educational opportunities and assist them in qualifying for and gaining access to the program that meets their educational, vocational and social goals. Programs that provide retention services ensure that support services will be available to students as they progress in their baccalaureate studies.

## **JUDICIAL AFFAIRS**

### **Location**

Bell Tower Building, Office 1804  
Office of the Dean of Student Life  
(805) 437-8512  
Fax: (805) 437-8529

The Judicial Affairs office develops, disseminates, interprets, and enforces campus regulations; protects the relevant legal rights of students; addresses student behavioral problems in an effective and educational manner; facilitates and encourages respect for campus governance; and provides learning experiences for students who participate in the operations of the judicial system.

## **MULTICULTURAL AND WOMEN'S & GENDER STUDENT CENTER**

### **Location**

Bell Tower Building, Office 1805  
(805) 437-8407  
Fax: (805) 437-3268

The purpose of the Multicultural and Women's & Gender Student Center is to educate students on issues of diversity and equality, to advocate for underrepresented groups on campus, to affirm and celebrate the unique heritage of our students, promote awareness, understanding, and appreciation for all peoples and cultures, to be a uniting force on campus, and to foster an environment that is emotionally, mentally, physically, and spiritually safe, and beneficial to all areas of student life and development.

It is the Center's goal to be more proactive than reactive by encouraging collaboration and dialogue between students, faculty, staff, and administrators of diverse backgrounds, and by being a forum, through which people can communicate, voice their concerns, and learn from one another.

## **NEW STUDENT AND TRANSITION PROGRAMS**

### **Location**

Bell Tower Building

(805) 437-8998

Fax: (805) 437-8529

New Student and Transition Programs assist students to integrate socially and academically into CSUCI. Orientations are offered to incoming freshman and transfer students prior to the start of the fall and spring semesters and serve as a catalyst for students to understand and get involved in their new environment. These programs inform students about services and opportunities at CSUCI while assisting them with the initial advising and registration process. Transfer students are strongly encouraged to attend New Student Orientation. Attendance for freshmen is mandatory.

## **PERSONAL COUNSELING SERVICES**

### **Location**

Counseling and Student Health Center,  
located on San Luis Ave (behind Sage Hall)

(805) 437-8828

Fax: (805) 437-8829

Personal Counseling Services (PCS) provides high quality, confidential, short-term counseling free of charge to students. The counseling staff is committed to helping students develop their maximum potential while pursuing their educational and personal goals. Most PCS services are offered on an appointment basis, but situations arise that require immediate or same day attention. You do not need an appointment if you have an urgent matter. Such circumstances may include, but are not necessarily limited to:

- Extreme anxiety or panic
- Extreme sadness
- Death of a friend or loved one
- Thoughts of self harm
- Thoughts of harming someone else
- Experiencing a traumatic event
- Having odd or intrusive thoughts

If you have an urgent situation, call PCS at (805) 437-8828 or come to the Student Health and Counseling Center (located behind Sage Hall). If you are on campus and need assistance after PCS office hours, or on weekends, please call Campus Police at (805) 437-8444. When not on campus, call 911 or have a family member or friend take you to a local emergency room or urgent care clinic.

Counseling services include individual, and group counseling. Students come for counseling with a wide range of concerns, which may include:

- getting along with roommates,
- relationships,
- self image and self esteem,
- depression,
- anxiety,
- alcohol and drug concerns,
- self-injury,
- major direction in college,
- recovering from abuse or assault,
- body image,
- eating disorders,
- sexuality,
- sexual orientation,
- grief and loss, and
- living with a disability.

When brief counseling is not sufficient, referral assistance to community mental health services and providers is available.

In addition, Personal Counseling Services provides a variety of psycho-educational presentations, workshops and coaching groups to assist students to successfully address the challenges of college life. Topics include:

- Test Anxiety Management,
- Time Management,
- Surviving and Thriving with ADD,
- Stress Management, and
- Adjusting to College Life.

Personal Counseling works with Disability Accommodation Services to consult with students with psychological disabilities and AD/HD to develop strategies to reduce impairment from a disabling condition.

## **RECREATION AND LEISURE SERVICES**

### **Location**

Arroyo Hall, Recreation Center

(805) 437-8902

Recreation and Leisure Services (RLS) seeks to create healthy learning communities to compliment the University's mission. RLS provides programs that promote friendly competition while seeking to create and affirm a collegial campus culture. Through its programs and services RLS assists students in creating a healthy lifestyle by balancing the mental demands of academic pursuits with the physical benefits of fitness and recreation. Recreation and Leisure Services provides programming and activities in seven categories: health and fitness, informal (open) recreation, instructional programs, intramural and extramural sports, outdoor adventures/waterfront, sports clubs and special events.

## STUDENT HEALTH SERVICES

### Location

Counseling and Student Health Center,  
located on San Luis Avenue (behind Sage Hall)  
(805) 437-8828  
Fax: (805) 437-8829

The purpose of Student Health Services is to promote good physical and emotional health. Emphasis is placed on the prevention of illness through education. All regularly enrolled students are offered basic health services paid through student fees. There is no charge to see a physician or other medical provider. Additional fees may be charged for some immunizations, outside lab services, and x-rays, if needed. Services available at the Counseling and Student Health Center, and at some community clinics, include the following:

- Diagnosis and Treatment of Acute Illness and Injuries
- Physical Examinations
- Family Planning, including the state-sponsored Family PACT program
- Pap Smears
- Immunizations
- TB Testing
- HIV Testing
- STD Screening and Treatment
- Pregnancy Testing
- Smoking Cessation
- Mental Health (in conjunction with Personal Counseling Services)
- Health Education Program
- Student Health Advisory Board

### Community Medical Clinics

When the Counseling and Student Health Center is closed or a student is unable to get to campus, basic health care services are available at no cost at any of the seven Ventura County Medical Clinics listed below. Students must present their student identification card to be seen. (Preferred sites are noted with an \*):

\*Magnolia Family Medical Center  
2240 E. Gonzales Road  
Oxnard (805) 981-5151  
Urgent Care (805) 981-5181

\*Las Islas Family Medical Group  
325 W. Channel Islands Blvd.  
Oxnard (805) 385-8662  
Urgent Care: (805) 483-0198

\*West Ventura Medical Clinic  
133 West Santa Clara Street  
Ventura (805) 641-5600  
Urgent Care: (805) 641-5620

\*Moorpark Family Care Center  
35 West Los Angeles Ave.  
Moorpark (805) 529-4624

Conejo Valley Family Care Center  
223 E. Thousand Oaks Blvd., #102  
Thousand Oaks (805) 371-8355

Santa Paula Medical Clinic  
1334 East Main Street  
Santa Paula (805) 933-1122

Sierra Vista Family Care Center  
4531 Alamo Street  
Simi Valley (805) 584-4885

### Student Health Insurance

Students are strongly encouraged to have health insurance that covers services beyond the scope of the Student Health Services. Information regarding supplemental student health insurance may be obtained from the Counseling and Student Health Center, the office of Student Life, or the website [www.csuhealthlink.com](http://www.csuhealthlink.com).

### Immunization Requirements

Entering CSU students are required to present proof of the following immunizations to the CSU campus they will be attending before the beginning of their first term of enrollment. These are not admission requirements, but shall be required of students as conditions of enrollment in CSU.

### MEASLES AND RUBELLA

All new and readmitted students born after January 1, 1957 must provide proof of immunization against measles and rubella prior to enrollment. Submit medical documentation to the Counseling and Student Health Center to verify both vaccinations were received since age one or obtain the vaccination at no charge through the Student Health Center.

### HEPATITIS B

All new students who will be 18 years of age or younger at the start of their first term at a CSU campus must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum of four to six months. If you need further details or have special circumstances, please consult the Student Health Services at (805) 437-8828 in the Counseling and Student Health Center located on San Luis Avenue.

### MENINGOCOCCUS

Meningococcal vaccine is not required, however each incoming freshman who will reside in on-campus housing will be required to return a form to the Counseling and Student Health Center verifying that he or she has received information about meningococcal disease and the availability of a vaccine to prevent one from contracting the disease, and indicating whether or not he or she has chosen to receive the vaccination. The form is available at the Student Health Center or online through the CSUCI website. The Student Health Services provides the meningococcal vaccine for an additional fee.



## STUDENT LEADERSHIP AND COMMUNITY

### Location

Bell Tower Building, Office 1858  
(805) 437-8998  
Fax: (805) 437-8529

Student Leadership and Community (SLC) highlights the development of students through co-curricular education. SLC provides leadership opportunities for students and is directly responsible for a variety of exciting co-curricular activities and events. Some of these events include the Welcome Barbecue, Family Weekend, and Dolphin Days, as well as various cultural heritage observances. In addition to increasing the vitality and culture of the campus, student clubs and organizations provide leadership opportunities and community service. Student organizations foster interest and education in a variety of areas ranging from sports to politics. Student Leadership and Community provides assistance and direction for the implementation, growth and development of all new and continuing clubs and organizations. Students interested in leadership opportunities, want to get involved with a club or organization, or just want to find out what is happening on campus should stop by the Student Leadership and Community office.



## STUDENT LEADERSHIP PROGRAMS

### Location

Bell Tower Building, Office 1858  
(805) 437-8998  
Fax: (805) 437-3529

Student Leadership Programs within Student Leadership and Community is responsible for coordinating co-curricular experiences for students to assist them as they evolve as leaders in our communities. Participating in weekend-emersion retreats both on and off campus, (e.g. "Back To Basics" retreat held each fall semester) as well as attending leadership seminars, students will have a variety of opportunities to discover their own personal leadership style and ability to positively effect change in our society. Student Leadership also assist in training students who hold leadership positions at CSUCI, serves as a resource for students developing their Co-Curricular Portfolio, and finally, Student Leadership and Community holds an annual leadership award ceremony in the spring semester to recognize CI leaders.

## THE HUB

### Location

The Hub (temporary Student Union)  
(805) 437-8932  
Fax: (805) 437-8529

The Hub is located at the northwest corner of the campus where Santa Barbara Avenue becomes Ventura Street. The Hub hosts exciting events throughout the year and is a great place to hang out, study and work on group projects as well. The Hub offers many amenities, including but not limited to:

- ASI Offices
- Study Room
- Conference Room
- Clubs and Organizations Workroom
- Media Room with 52" TV and surround sound
- Game Room with billiards, ping pong, foosball, and a 65" video gaming TV



# Policies and Regulations

CSU  
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# POLICIES AND REGULATIONS

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## POLICIES AND REGULATIONS

### STUDENT ACADEMIC POLICIES

For further information about the policies listed here, please refer to the Administrative Policy Manual Website at <http://policy.csuci.edu/> or the Academic Senate Policy Website at <http://senate.csuci.edu/policies.htm>. Administrative and Academic Policies are subject to change at any time as policies are issued or updated. Additional policies that apply to students and others connected to CSUCI may be found in Title 5 of the California Code of Regulations, the CSU Memoranda of Understanding, CSU systemwide policies, and within other University publications. As an agency of the State of California, CSUCI is subject to state and federal laws and regulations.

#### ACADEMIC DISHONESTY

1. Academic dishonesty includes such things as cheating, inventing false information or citations, plagiarism and helping someone else commit an act of academic dishonesty. It usually involves an attempt by a student to show possession of a level of knowledge or skill that he/she does not possess.
2. Course instructors have the initial responsibility for detecting and dealing with academic dishonesty. Instructors who believe that an act of academic dishonesty has occurred are obligated to discuss the matter with the student(s) involved. Instructors should possess reasonable evidence of academic dishonesty. However, if circumstances prevent consultation with student(s), instructors may take whatever action (subject to student appeal) they deem appropriate.
3. Instructors who are convinced by the evidence that a student is guilty of academic dishonesty shall assign an appropriate academic penalty. If the instructors believe that the academic dishonesty reflects on the student's academic performance or the academic integrity in a course, the student's grade should be adversely affected. Suggested guidelines for appropriate actions are: an oral reprimand in cases where there is reasonable doubt that the student knew his/her action constituted academic dishonesty; a failing grade on the particular paper, project or examination where the act of dishonesty was unpremeditated, or where there were significant mitigating circumstances; a failing grade in the course where the dishonesty was premeditated or planned. The instructors will file incident reports with the Vice Presidents for Academic Affairs and for Student Affairs or their designees. These reports shall include a description of the alleged incident of academic dishonesty, any relevant documentation, and any recommendations for action that he/she deems appropriate.
4. The Vice President for Student Affairs shall maintain an Academic Dishonesty File of all cases of academic dishonesty with the appropriate documentation.

5. Student may appeal any actions taken on charges of academic dishonesty to the "Academic Appeals Board."
6. The Academic Appeals Board shall consist of faculty and at least one student.
7. Individuals may not participate as members of the Academic Appeals Board if they are participants in an appeal.
8. The decision of the Academic Appeals Board will be forwarded to the President of CSU Channel Islands, whose decision is final.  
(SP01-57)

#### ACADEMIC LEAVE

Students who take a one semester leave of absence from CSUCI are considered continuing students and do not need to take any action prior to registration. Any student in good academic standing may apply to take a leave of absence from the university for up to four consecutive semesters. While a student may apply for multiple leaves, no student will be permitted more than six total semesters of leave from CSUCI. Academic Leave Forms are available at the Office of Admissions and Records.  
(SP03-06)

#### ACADEMIC LOAD

A student's academic load is determined by the number of units enrolled each semester.

<b>Undergraduate Full-Time</b>	12 + Units
<b>Undergraduate Part-Time</b>	6 Units
<b>Graduate Full-Time</b>	8 Units
<b>Graduate Part-Time</b>	4 Units

#### ACADEMIC PROBATION AND DISQUALIFICATION

This CSU Channel Islands policy does not supersede additional policies or procedures mandated by Chancellor's Executive Order 823.

##### Academic Probation

An undergraduate student is subject to academic probation if at any time the cumulative grade point average (GPA) in all college work attempted or the cumulative GPA at CSUCI falls below 2.0. Probationary students will be advised of their status at the end of the semester. The communication will include conditions for removal from probation and the circumstances that would lead to disqualification. All probationary students are required to receive academic advising no later than the second week of the following semester. Students shall be removed from academic probation once they have received such advising and both the cumulative GPA in all college work attempted and the cumulative GPA average at CSUCI are at least 2.0 or higher.  
(SP04-33)

##### Academic Disqualification

Academic Disqualification: An undergraduate student on academic probation will be academically disqualified



when the student's GPA in all units attempted or in all units attempted at CSUCI falls below the following: as a freshman, 1.50; as a sophomore, 1.70; as a junior, 1.85; as a senior, 1.95. Students' records will be evaluated for disqualification at the end of each semester. Students cannot be placed on probation for the first time at CSUCI and be disqualified in the same semester. However, students who have previously been on probation at CSUCI and fall below the GPA listed above will be academically disqualified, even if the probation and disqualification semesters are non-consecutive. A student may appeal disqualification no later than three weeks before the start of the semester following the disqualification. Appeals should be made to the Office of the Provost or Designee. Appeals will be decided by the Academic Appeals Board. Typical grounds for a successful appeal include significant improvement towards meeting the GPA requirements and/or extraordinary circumstances beyond the student's control, as determined by the Academic Appeals Board. A successful petition of appeal for disqualification will result in the student remaining on academic probation. Students who appeal unsuccessfully will need to apply for reinstatement as specified in the Policy on Reinstatement if they wish to continue at CSUCI. (SP 04-36)

A post-baccalaureate student will be subject to academic probation if, after attempting 12 or more graded units, his or her post-baccalaureate cumulative GPA for units attempted at CSU Channel Islands falls below a 2.50 average. The GPA will determine whether a student is subject to probation only when the student has attempted 12 semester units. A student enrolled in a graduate degree program in either conditionally classified or classified standing shall be subject to academic probation if he or she fails to maintain a cumulative GPA of at least 3.0 in all units attempted; no course in which the student receives lower than a C may be counted toward a Master's degree.

### **Administrative-Academic Probation**

An undergraduate or graduate student may be placed on administrative-academic probation for any of the following reasons:

- Withdrawal from more than half the units in which a student is enrolled in two successive semesters or in any three semesters (withdrawals directly associated with a medical condition are not included);
- Repeated failure to progress toward the stated degree objective; or
- Failure to comply, after due notice, with an academic requirement or regulation.

Probationary students will be advised of their status by letter at the end of the semester. The letter will include conditions for removal from probation and the circumstances that would lead to disqualification.

### **Administrative-Academic Disqualification**

A student who has been placed on administrative-

academic probation may be disqualified if:

- the conditions for removal of academic-administrative probation are not met within the specified period;
- the student becomes subject to academic probation while on administrative-academic probation; and
- the student becomes subject to administrative-academic probation for the same or similar reason to a previous placement on academic-administrative probation, although not currently in such status.

When such action is taken, the student will receive written notification including an explanation of the basis for the action and the process for appeal.

### **Reinstatement**

In order to be considered for reinstatement to CSUCI, a disqualified student must demonstrate academic ability by completing additional coursework. All classes taken must be applicable for degree credit at CSUCI. After eliminating the grade-point deficiency, the student may petition the Academic Appeals Board for reinstatement. The student must submit the petition for reinstatement no later than three weeks before the beginning of the semester that the student intends to return. The Academic Appeals Board will only consider the petition for reinstatement of students who have remained outside of the university for at least one regular (Fall or Spring) semester after their dismissal. Students who are disqualified, reinstated, and become disqualified a second time will not be granted a second reinstatement. (SP04-37)

### **ACCELERATION OF UNIVERSITY STUDIES**

The University provides several means by which students may accelerate their studies; these are discussed below and on the Academic Advising website located at [www.csuci.edu/academics/advising](http://www.csuci.edu/academics/advising). Each of the following options may be subject to restrictions and regulations within individual academic programs. Therefore, students interested in any of these options should consult with the coordinator of the program concerned.

### **ADD POLICY**

1. Students may add courses during the first three weeks of classes with approval signatures from the instructor.
2. During the fourth week of instruction a student may add a class with the approval of the instructor and the approval of the Vice President for Academic Affairs (or designee) as indicated by their signatures on the appropriate forms. (SP03-05)

### **ADMISSION EXCEPTIONS**

#### **Accountability**

The Director of Admissions and Recruitment

#### **Applicability**

Any applicant who does not meet the published admission eligibility standards and has received an official denial from the University may submit a letter of appeal to the Admission Appeals Committee.

**Definition(s)**

**Admission Appeals Committee:** Appointed by the Director of Admissions and Recruitment in consultation with the Senate Executive Committee and composed of faculty, staff, and a student representative.

**Denial:** A formal letter from the University denying admission.

**Extenuating Circumstances:** Any condition that the applicant believes explains the reason for failure to meet admission criteria and that warrants the review of the application.

**Petition:** This may be by form or letter and must include a statement of extenuating factors which includes the potential hardship to be incurred if admission is denied as well as the reason the applicant's past record is not indicative of present capabilities.

**Text**

Every applicant who has been denied admission to the University may appeal this decision by submitting a letter of appeal requesting that the application be reviewed. Under the purview of the Director of Admissions and Recruitment, the Admissions Appeals Committee regularly reviews these letters along with the original application and supporting documents. The committee will review the appeal and judge whether or not the applicant's petition warrants revising the original denial and whether or not the applicant will likely succeed in the University environment given the explanation and documentation provided. A limited number of admission exceptions are allocated to the campus each academic year. The Committee, therefore, considers a number of factors, normally favoring applicants who are close to qualifying and whose appeal both adequately explains why the student failed to meet admission criteria and demonstrates the motivation to succeed.

(SA.02.006)

**ADVANCED PLACEMENT (AP) AND INTERNATIONAL BACCALAUREATE (IB) EXAM CREDIT**

CSU Channel Islands grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to eight semester units (twelve quarter units) of college credit. Exams for past (and current) years are available on the Academic Advising website at [www.csuci.edu/academics/advising](http://www.csuci.edu/academics/advising). The AP table included in this catalog should be viewed as a guideline only and is subject to change. Grade reports are sent automatically to CSU Channel Islands if requested by the student at exam time. The student may also order the report through the AP website at [http://www.collegeboard.com/student/testing/ap/exgrd\\_rep.html](http://www.collegeboard.com/student/testing/ap/exgrd_rep.html) or by calling (609) 771-7300 or (888) 225-5427, Mon-Fri 8 am to 4:45 pm, Eastern Time. Reports should be sent to Records and Registration.

**Advanced Placement (AP) Credit 2007 Exams**

Exam Name	Credit Granted
Art History	ART 110 for 3 units
Biology	BIOL 200 for 4 units; For Liberal Studies major, Teaching and Learning Option only: BIOL 170 for 4 units
Calculus AB Score of 3 Score of 4 or 5	MATH 140 for 3 units MATH 150 for 4 units
Calculus BC Score of 3	MATH 140 or MATH 150 for a maximum of 3 units MATH 140 for 3 units MATH 150 and MATH 151 for total of 6 units MATH 150 for 4 units
Calculus AB Subscore Score of 4 or 5	
Calculus AB Subscore	

NOTE: If both Calculus AB & BC are passed, credit is extended only for Calculus BC, since BC duplicates the AB material.

Chemistry	CHEM 121 for 4 units plus 2 free elective units
Computer Science A Score of 3 Score of 4 or 5	COMP 105 for 3 units COMP 150 for 4 units
Computer Science AB Score of 3 Score of 4 or 5	COMP 150 for 4 units plus 2 free elective units COMP 150 and COMP 151 for total of 6 units

NOTE: If both Computer Science A & Computer Science AB are passed, credit is extended only for Computer Science AB, since AB duplicates the A material.

Economics: Micro	ECON 110 for 3 units
Economics: Macro	ECON 111 for 3 units
English Language and Composition	ENGL 105 for 3 units
English Literature and Composition	ENGL 105 for 3 units

NOTE: If both English Literature & English Language are passed, only 1.5 units are awarded for each exam for a total of 3 units.

Environmental Science	3 free elective units
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European History	6 free elective units
French Language	GE Area C3a for 3 units
French Literature	GE Area C2 for 3 units plus 3 free elective units

NOTE: If both French Language & French Literature are passed, GE Area C3a for 3 units and GE Area C2 for 3 units are awarded for a total of 6 units.

German Language	GE Area C3a for 3 units
Government and Politics: US	US Constitution requirement for 3 units (excluding the California State and Local Government requirement—complete POLS 140, California Government and Politics, for 1 unit)

Government and Politics: Comparative	3 free elective units
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Human Geography	3 free elective units
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Latin: Vergil	3 free elective units
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Latin: Literature	3 free elective units
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NOTE: If both Latin Vergil & Latin Literature are passed, only 1.5 units are awarded for each exam for a total of 3 units.

Music Theory	GE Area C1 for 3 units plus 3 free elective units
Music Theory Subscore: Nonaural	GE Area C1 for 3 units
Music Theory Subscore: Aural	GE Area C1 for 3 units

NOTE: If the Music Theory exam and/or the Music Theory Subscore: Nonaural are passed in conjunction with the Music Theory Subscore: Aural, GE Area C1 plus 3 free electives are awarded for a total of 6 units

Physics B	GE Area B1 including lab for 4 units
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Physics C: Mechanics	PHYS 100 for 4 units; For Math majors only: PHYS 200 for 4 units
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Physics C: Electricity and Magnetism	PHYS 101 for 4 units; For Math majors only: PHYS 201 for 4 units
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Psychology	PSY 100 for 3 units
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Spanish Language Score of 3	SPAN 201 for 4 units, fulfilling GE Area C3a SPAN 201 and SPAN 202 for total of 8 units, fulfilling GE Areas C3a and C3b
Score of 4 or 5	

Spanish Literature Score of 3	SPAN 301 for 3 units (SPAN 301 or 302) and SPAN 310 for 6 units
Score of 4 or 5	

Studio Art: Drawing	ART 105 for 3 units
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Studio Art: 2D Design	ART 106 for 3 units
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Studio Art: 3D Design	ART 202 for 3 units
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NOTE: If both 2D Design and 3D Design are passed, only 1.5 units are given for the second exam for a total of 4.5 units.

Statistics	MATH 201 for 3 units
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U.S. History	HIST 270 and HIST 271 for a total of 6 units
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World History	GE Area D for 6 units
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## INTERNATIONAL BACCALAUREATE (IB) EXAM CREDIT

CSU Channel Islands grants credit toward its undergraduate degrees for successful completion of IB examinations. IB exams at the Higher Level (HL) passed with a score of 4 or higher will earn up to 8 units of semester credit. Exams passed earn a grade of credit (CR) and are not calculated into the GPA. Exams for past (and current) years are available on the Academic Advising website at [www.csuci.edu/academics/advising](http://www.csuci.edu/academics/advising). The IB table below for 2007 should be viewed as a guideline only and is subject to change. IB transcripts are sent automatically to CSU Channel Islands upon completion of the exam if requested by the student. For more information about transcript requests, please call the IB North American office in New York City at (212) 696-4464, Mon-Fri 9:30 am to 4:30 pm, Eastern Time or send an e-mail to [transcripts.ibna@ibo.org](mailto:transcripts.ibna@ibo.org). Transcripts should be sent to Records and Registration.

## International Baccalaureate (IB) Credit 2007 Exams

Exam Name	Credit Granted
Biology	BIOL 100 for 4 units plus 2 free elective units
Chemistry	CHEM 121 for 4 units plus 2 free elective units

Computer Science	COMP 105 for 3 units plus 3 free elective units
Economics	ECON 110 for 3 units plus ECON 111 for 3 units
English A1	ENGL 105 for 3 units plus GE Area C2 for 3 units
French A2	GE Area C3a for 3 units plus 3 free elective units plus fulfills the Language requirement
French B	GE Area C3a for 3 units plus 3 free elective units plus fulfills the Language requirement
History of the Americas	GE Area D for 3 units plus 3 free elective units
Mathematics	MATH 105 for 4 units plus MATH 150 for 4 units; a total of 8 units
Music	MUS 100 for 3 units plus 3 free elective units
Physics	PHYS 100 for 4 units plus PHYS 101 for 4 units; a total of 8 units
Psychology	PSY 100 for 3 units plus 3 free elective units
Social & Cultural Anthropology	ANTH 102 for 3 units plus 3 free elective units
Spanish A2	SPAN 201 for 4 units plus SPAN 202 for 4 units plus fulfills the Language requirement; a total of 8 units
Spanish B	SPAN 301 for 3 units plus SPAN 310 for 3 units plus fulfills the Language requirement
Visual Arts	ART 100 for 3 units plus 3 free elective units

## APPLICATION ROLL-OVER

### Accountability

The Director of Admissions and Recruitment

### Applicability

Any applicant who finds it necessary to move his/her application for admission forward to the next term for which applications are accepted.

## Definition(s)

*Roll-Over:* To move the application for admission from the original term of application to the next subsequent term.

## Text

Normally, an application for admission is applicable only to the term of original application. In cases of hardship (illness, etc.) the applicant may request in writing that his/her application be rolled over to the next semester for which applications are accepted. Such request must be submitted to the Director of Admissions and Recruitment no later than the Census date of the semester for which the applicant originally applied. Approval is granted at the discretion of the Director of Admissions and Recruitment. (SA.02.008)

## CANCELLATION OF REGISTRATION OR WITHDRAWAL FROM THE INSTITUTION

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term are required to follow the University's official withdrawal procedures. Failure to follow formal University procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from Records and Registration, (805) 437-8500.

Students who receive financial aid funds must consult with the Financial Aid office prior to withdrawing from the University regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. If a recipient of student financial aid funds withdraws from the institution during an academic term or a payment period, the amount of grant or loan assistance received may be subject to return and/or repayment provisions.

## CATALOG RIGHTS

Undergraduate students who have maintained continuous attendance at a CSU or California Community College may elect to qualify for graduation from CSUCI under general education, United States history, Constitution and American ideals, and other non-major catalog requirements in effect either (1) at the time they began attending any California Community College or CSU campus, or (2) at the time they entered the CSU campus from which they will graduate, or (3) at the time they graduate from the CSU. (Title 5, Section 40401)

Transfer students, returning students, and students changing their major or minor field of study may be required by the individual program to meet updated major or minor requirements. All students may be subjected to any other requirements mandated by system-wide policy changes affecting all CSU students.



Absence related to an approved educational leave or for attendance at another accredited institution of higher learning is not considered an interruption, providing such absence does not exceed two years. The absence must be consistent with the CSU definition of educational leave and with CSU policy.

Students who have been academically disqualified lose previously established catalog rights.  
(SP04-28)

### CHANGING BASIS FOR GRADING

If either traditional letter grading or credit/no credit grading is allowed for a course, a student may change the basis of his or her grading for the course from traditional letter grading to credit/no credit grading, or vice versa, through the third week of instruction without instructor approval by filing the appropriate form. Grade basis changes are permitted when the program area for the course and the student's major do not require a specific grading option for the course.  
(SP03-34)

### CLASS ATTENDANCE

1. Students are expected to attend class regularly.
2. Instructors must include their class attendance requirements in the course syllabus.
3. If students have a valid reason to miss class (excused absence), they are responsible for informing their instructors of the absence at the earliest possible date (preferably before class if possible). Instructors may require students to provide documentation for excused absences. Excused absences include, but are not limited to:
  - a. Illness or injury to the student
  - b. Death, injury, or serious illness of an immediate family member
  - c. Religious reasons (California Education Code section 89320)
  - d. Jury duty or government obligation
  - e. University sanctioned or approved activities (examples include: artistic performances, forensics presentations, participation in research conferences, intercollegiate athletic activities, student government, required class field trips, etc.)
4. It is the responsibility of the student to give advance notification, contact the instructor to make arrangements to make up any academic work that may be missed, submit assignments on time, and make arrangements regarding activities, tests, quizzes, or exams that may be scheduled during the absences.
5. If a student does not notify the instructor one week in advance of the dates of excused absences, the instructor is not required to adjust the class schedule or to allow for make-up activities, tests, or exams. However, students shall not be penalized for excused absences when circumstances make it impossible to provide advance notice (e.g. student is engaged in a University sanctioned event such as a playoff game that cannot be anticipated).
6. Students who expect to be absent from the University for any valid reason, and who have found it difficult to

inform their instructors, should notify the Division of Academic Affairs. The Division of Academic Affairs shall notify the student's instructors of the nature and duration of the absence. It remains the responsibility of the student to arrange with instructors to make up any academic work.

7. In circumstances where an actual assignment, some specific class work, an activity, a quiz, or an exam cannot reasonably be made up, it is the instructor's option to assign alternative work.
8. Instructors are not obligated to consider other absences as excused.  
(SP01-56)

### CLASS STANDING

Freshmen	0-29 Units
Sophomore	30-59 Units
Junior	60-89 Units
Senior	90+ Units

### COMMENCEMENT CEREMONIES, PARTICIPATION IN

Students may participate in commencement ceremonies if they have no more than 10 units pending toward completion of their degrees.  
(SP02-05)

### COURSE GRADE APPEALS

1. Each student has the right to appeal the final course grade, but only the final course grade. For example, a student may not appeal grades on individual assignments and/or examinations.
2. Appeals are limited to situations in which the student believes the grade was "prejudicially", "capriciously", or "arbitrarily" assigned.
3. The appeal must be initiated within the first seven weeks of the first regular semester after assignment of the grade. A student who believes that a course grade has been assigned inappropriately must follow the proper steps in the appeal process, observing the time limits for completion of the steps as follows:
 

Step 1: The grade appeal must first be directed to the instructor of the course, in writing by the end of the seventh week of the semester and copied to the Chair. If the grade is not correct, the instructor can change the grade with a change of grade form. The instructor has two weeks to respond to the student's request in writing and copied to the Chair. Students who file a grade appeal after the fifth week may not have their appeals settled by the end of the semester.

Step 2: If the grade is correct and the student is not satisfied with the instructor's explanation, and intends to appeal the grade, the student must make an appointment to speak with the program chair. If the instructor is not available or does not respond to the student's appeal within the given time frame, the program chair may act on behalf of the instructor. If the program chair is

the instructor, the student should speak with the Vice President of Academic Affairs (or designee). The program chair or Vice President of Academic Affairs (or designee) cannot change the grade, but will then discuss the issue with the instructor and provide a response by the end of the ninth week of the semester to the student.

Step 3: If the student is not satisfied after receiving the response from the appropriate administrator, the student should submit a written appeal by the end of the eleventh week of the semester to the University Appeals Committee through the office of Academic Affairs.

Step 4: The University Appeals Committee will forward the student's statement to the instructor in writing. The instructor will be required to respond in writing by a specified date within the semester. The student's statement and the instructor's response will be reviewed by the entire committee, after which the committee can:

- a. Request more information from the student and/or the instructor
- b. Decide to change or maintain the grade

Step 5: When the committee has made its decision, it will notify the student and instructor in writing and the student will be given a copy of the instructor's written response by the end of the semester.

4. The University Appeals committee shall consist of faculty and at least one student.
5. Individuals may not participate as a member of the University Appeals Committee in review of an appeal if they are a participant in the appeal. The decision of the University Appeals Committee is final.
6. If a student is a candidate for graduation, the grade appeal must be initiated 30 days from the last day of the semester. The Office of the Registrar must be notified in writing of the intent to appeal the grade. The degree will not be granted until the grade change process has been completed.
7. No grades can be changed for any reason after a degree has been granted.

(SP05-09)

## **COURSE LOAD FOR UNDERGRADUATE STUDENTS**

An undergraduate student may enroll in 18 units without advisor approval. Students enrolling in 19 or more units are required to have a program advisor's written approval.

(SP03-04)

## **COURSE TIME CONFLICT**

Students may not enroll in classes that conflict in time. If the faculty members involved believe a student may participate fully and attend two classes that conflict in time in the schedule, the student must obtain the signature of both instructors for these classes on the Time Conflict form, and state the reasons why this is possible.

(SP04-30)

## **CREDIT BY EXAMINATION**

CSU Channel Islands may grant unit credit to those students who pass examinations that have been approved for credit system-wide. These are: the CSU English Equivalence Examination (EEE) and the College Level Entrance Program (CLEP) Examinations. Specific information on credit earned may be found by visiting the Academic Advising website located at [www.csuci.edu/academics/advising](http://www.csuci.edu/academics/advising).

Students may challenge courses by taking examinations developed at Cal State Channel Islands. Credit shall be awarded to those who pass them successfully. Credits earned in this manner will be recorded as "CR" (credit) on the student's transcript and will be counted toward the total number of units required for the degree although they will not be included in calculation of the grade-point average. Credit by examination may not be used to fulfill the minimum residence requirement.

## **CREDIT FOR MILITARY SERVICE**

Credit will be allowed toward graduation to any student submitting evidence (DD 214 or DD 295) of satisfactory completion of Basic Training. Students with service in the Air Force, Army and Coast Guard will receive 4 units of credit. Students with service in the Marine Corps will earn 8 units of credit. Credit is allowed in accordance with the recommendation by the American Council on Education (ACE). Other military courses completed may earn baccalaureate credit as outlined in the Guide to the Evaluation of Education Experience in the Armed Forces. CSU Channel Islands has final discretion on where these units will be applied.

## **CREDIT FOR NON-COLLEGIATE INSTRUCTION**

Cal State Channel Islands grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The number of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

## **CREDIT TOWARD GRADUATION FOR COURSES TAKEN OUTSIDE CSU CHANNEL ISLANDS**

A student may earn credit toward graduation for courses taken outside of CSU Channel Islands as follows:

### **Transfer of Undergraduate and Graduate Credit from Another Accredited Institution**

Students who were in good standing at another accredited institution may, within maximums, transfer credit for baccalaureate or graduate degree course work. Course equivalency for major requirements is subject to the determination and discretion of the University; students are cautioned that while the University will accept transferred courses for unit credit towards admission, it is under no obligation to accept those same

courses for subject credit to fulfill requirements. Policy regarding transfer of courses from California community colleges differs in some respects. Individual program regulations for specific transfer limitations should be consulted.

### **Transfer of Undergraduate Credit From Accredited Community Colleges**

A maximum of 70 semester units earned in a community college may be applied toward the baccalaureate degree, with the following limitations and stipulations:

1. No upper-division credit may be allowed for courses taken in a community college;
2. No credit may be allowed for professional courses in education taken in a community college, other than introduction to education courses;
3. Students who transfer general education certification are still required to complete at least 9 units of upper-division general education courses at CSU Channel Islands.

Note: Articulation agreements with the California Community Colleges may be found at [www.ASSIST.org](http://www.ASSIST.org). ASSIST also provides CSU General Education and IGETC certification lists.

### **DECLARATION OF MAJORS**

To help ensure timely completion of graduation requirements, students who have a total of 60 units completed and in progress must have declared a major before they may register for the next term. Upper division transfer students are required to declare their intended major on their application for admission. (SP02-06)

### **DISABILITY RELATED PRIORITY REGISTRATION Accountability**

Disability Accommodation Services Counselor and the University Registrar

#### **Applicability**

Students with a documented disability

#### **Definition(s)**

Priority Registration – Assignment to the first available registration appointment time period for continuing student advance registration.

#### **Text**

To be eligible to receive priority registration, a disability-related need must exist which meets one or more of the following criteria:

1. Requires pre-arranged support services, such as pre-recorded audiotape or electronic text, large print, Braille materials, other print materials, interpreting services, real-time captioning, adaptive equipment, lab assistants, lab material conversions or extensive programming readers or interpreters that are necessary for accommodation.
2. Imposes geographical constraints due to mobility speed and/or endurance.

3. Necessitates preferential seating, selection of professors with certain speech patterns or teaching styles due to communication/learning issues as verified by the DAS Coordinator on a term-by-term basis.
4. Requires extensive therapy or other medical treatment/intervention that impacts scheduling flexibility significantly (such as chemotherapy, renal dialysis, etc).

All priority registration requests are reviewed and approved by the DAS Coordinator. Eligibility for priority registration will be periodically re-evaluated and prior approval does not constitute automatic entitlement to continued eligibility.

Consideration of graduation time limitation, financial need, sponsorship by programs such as Worker's Compensation, Department of Rehabilitation, Veterans benefits, private insurance, etc, are not justification for priority registration. (SA.08.001)

### **DOUBLE DEGREES**

If two baccalaureate programs, one leading to a BA and one leading to a BS, are completed concurrently, only one degree (BA or BS) will be conferred. Only one degree, the one of the student's choice, will appear on the diploma. The fact that requirements of another degree have been completed will be noted on the transcript. Double counting of courses shall conform to the policy in Senate Resolution 34-01. (SP02-16)

### **DOUBLE-COUNTING OF COURSE REQUIREMENTS**

A course may meet the requirements for two or more program areas (majors, minors, and other sub-programs) if the coordinators for those program areas agree; however, the units for the course are counted only once toward the total units for graduation. Double counting between a program and General Education requirements is also allowed. Only six of the nine units of upper-division, interdisciplinary General Education courses may be double counted between a major and General Education. (SP01-34)

### **EXTENSION COURSES**

Students may take extension courses without matriculating at CSU Channel Islands provided that they meet course prerequisites. Extension courses may be applied to degree and credential requirements with approval of the degree program coordinator. Extension courses do not satisfy the University's residence requirement for graduation. Up to 24 units earned through Open University (see Open University) and Extension may be applied to a bachelor's degree at CSU Channel Islands, and up to 9 units may be applied to a master's degree.

## FREE SPEECH AND ASSEMBLY

### Accountability

The Vice President for Student Affairs and the office of Student Leadership and Community

### Applicability

All registered students at CSUCI

### Text

The University maintains its rights to regulate reasonable time, place, and manner restrictions concerning acts of expression and dissent. Any acts that are disruptive to the normal operations of the University including classes and University business or invade the rights of others will not be tolerated. The University has designated an area in the park Northeast of The HUB as the Free Speech Area. For members of the campus community spontaneous use of this area is permitted for non-amplified activity. A recognized club or organization, faculty, or University division or department must sponsor non-campus community members.

The issuance of invitations to outside speakers by members of the campus community is encouraged and (except for constraints that may follow from the lack of availability of suitable facilities) is limited only in unusual circumstances when an invitation may be canceled by the President of the University or designee, if in his or her opinion the proposed event or speech constitutes a clear and present danger to the University.

This policy is not intended to prohibit or regulate free speech in the form of a guest lecture or speaker which is tied to, sponsored by or affiliated with a specific academic class or program.

In all instances, Free Speech and Assembly will be governed by the following guidelines:

1. *Disruptive Activity:* Obstruction, disruption, or interference with classes, research, administrative functions, or other University activities is not permitted. Likewise, infringement on the rights of others is prohibited.
2. *Reasonable Access:* It is important to provide reasonable access to and exit from any office, classroom, laboratory, or building. Likewise vehicular and pedestrian traffic should not be obstructed.
3. *Peaceful Assembly:* Picketing or demonstrating in an orderly manner or distributing literature outside University buildings is acceptable with the appropriate approval from the Office of Student Leadership and Development. Demonstrations inside campus buildings are prohibited. All applicable University policies on written materials apply as well.
4. *Symbolic Protest:* Displaying a sign, gesturing, wearing symbolic clothing, or otherwise protesting silently is permissible unless it is a disruptive activity

or impedes access. Such actions should not interfere with others view or prevent them from being able to pay attention to other events, which may be occurring. In all instances signs may not be carried with the aid of wooden, plastic, or metal sticks, pipes or polls.

5. *Noise:* Making sustained or repeated noise in a manner that substantially interferes with a speaker's ability to communicate his/her message is prohibited. Noise levels should not interfere with classes, meetings, or activities in progress.
6. *Force or Violence:* Any attempt to prevent a University activity or other lawful assembly by the threat or use of force or violence is prohibited.
7. *Damage to Property:* Care should always be taken to ensure that University and personal property is not damaged or destroyed.
8. *Other University Regulations:* All applicable University rules, regulations, policies, and guidelines should always be adhered to.  
(SA.07.006)

### GRADE POINT AVERAGE (GPA)

An overall GPA of 2.0 is required in:

1. Total courses attempted
2. CSU Channel Islands courses attempted; and
3. Courses in the major

### GRADES

1. "ABCD" is the default grading system.
2. Although it is not required, individual faculty members may add a "+" or "-" to any grade except "F." By adding a "+" to a grade, the grade points earned increase by 0.3 (except an A+ shall still be 4.0 grade points). By adding a "-" to a grade, the grade points earned shall decrease by 0.3. Course syllabi are required to state clearly whether "+/-" grading is used.
3. A student may take a course "CR/NC" if the course is designated as allowing "CR/NC" grading in the course approval process.
4. Not more than 12 units of general education courses may be taken "CR/NC."
5. The decision on how many units of courses may be taken "CR/NC" and which courses can be taken "CR/NC" is left up to each individual program.
6. Course syllabi shall include a discussion of the instructor's grading policy.  
(SP01-38)

### GRADING SYMBOLS ASSIGNED, OTHER

**RP (Report in Progress)** The "RP" symbol is used in connection with courses that extend beyond one academic term. It indicates that work is in progress, but that the assignment of a final grade must await completion of additional work. Work is to be completed within one year except for graduate degree theses.



**W (Withdrawal)** The “W” symbol indicates that the student was permitted to withdraw from the course after the third week of the semester with the approval of the instructor and appropriate campus officials. It carries no connotation of quality of student performance and is not used in calculating grade point average. See withdrawal procedures in the Catalog.

**WU (Withdrawal Unauthorized)** The “WU” symbol indicates that an enrolled student did not formally withdraw from the course according to University policy and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average, this symbol is equivalent to an “F.”

### GRADUATE/POSTBACCALAUREATE STUDENT COURSE REPEAT

A graduate/post baccalaureate student may take a course a total of 3 times with no grade forgiveness. All grades will be calculated into the GPA. Unit credit for the courses will be granted only once unless courses are repeatable as specified in the catalogue. (SP03-33)

### GRADUATION REQUIREMENTS IN UNITED STATES HISTORY, CONSTITUTION, AND AMERICAN IDEALS (TITLE V, SECTION 40404)

Students are required to demonstrate competencies in U.S. History, U.S. Constitution and California State and local government for graduation. Competencies can be met by enrollment in six units as follows:

1. POLS 150 American Political Institutions (3)  
Students who have AP credit for American Government or have taken American Government without coverage of California government may take the following:  
POLS 140 California Government (1)
2. Choose from one of the following:  
HIST 270 The United States to 1877 (3)  
HIST 271 The United States since 1877 (3)  
HIST 272 Constitutional History of the U.S. (3)  
HIST 275 The United States to 1900 (3)

### HIGH SCHOOL STUDENTS

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment.

### HONOR CODE

Academic integrity is the responsibility of all members of the CSUCI community. We, as members of the

university community, share equally in the responsibility to ensure that the honor code instills self-respect; fosters scholarship and achievement; builds habits of honesty; promotes ethical behavior; inspires mutual fellowship and respect; and confers prestige on California State University Channel Islands and members of the university community. All university community members should be familiar with the Honor code. Students share with faculty and staff the responsibility of sustaining a climate of integrity. These values are to be maintained at all times.

### A. Introduction

In a university community, there can be no doubt that honor and the pursuit of knowledge are inexorably intertwined.

An honor system must be believed in, supported, and administered by those who belong to it. Upon enrollment at California State University Channel Islands (CSUCI), each student is automatically subject to the provisions of the Honor system. Each student has a duty to become familiar with the Honor Code and the provisions of the Honor system. Ignorance of what constitutes an Honor Code violation cannot be used as a defense in an honor hearing.

The Honor system at CSUCI does not discriminate based upon race, color, religion, national origin, political affiliation, gender, sexual orientation, age, or disability. A faculty or staff member may require examination, paper, and other written or electronically submitted assignment contain the following pledge (or similar pledge approved by the faculty or staff member) of the student(s) submitting the work: “This work complies with the CSUCI Honor Code.” The pledge shall be signed by the student(s) unless it is submitted electronically, in which case the faculty or staff member may require a different method of proof of a student’s pledge.

### B. The Honor Code

Students shall observe complete honesty in all academic matters. All students are strongly urged to ask their faculty or staff members to clarify what types of conduct are authorized or unauthorized in each course. Violations of the Honor Code include, but are not limited to, taking or attempting to take any of the following actions:

1. Using unauthorized materials or receiving unauthorized assistance during an examination or in connection with any work done for academic credit. Unauthorized materials may include, but are not limited to, notes, textbooks, previous examinations, exhibits, experiments, papers, or other supplementary items.
2. Giving false or misleading information regarding an academic matter.
3. Copying information from another student during an examination.

4. Rendering unauthorized assistance to another student by knowingly permitting him or her to see or copy all or a portion of an examination or any work to be submitted for academic credit.
  5. Obtaining prior knowledge of examination materials (including using copies of previously given examinations obtained from files maintained by various groups and organizations) in an unauthorized manner.
  6. Providing or obtaining unauthorized copies of any portion of an examination or other course work.
  7. Using a commercially prepared paper or research project, or submitting for academic credit any work completed by someone else.
  8. Falsifying or attempting to falsify class attendance records for oneself, or for someone else, or having another falsify attendance records on your behalf.
  9. Falsifying material relating to course registration or grades, either for oneself or for someone else.
  10. Falsifying reasons why a student did not attend a required class or take a scheduled examination.
  11. Taking an examination in the place of another student.
  12. Making unauthorized changes in any reported grade or on an official academic report form.
  13. Falsifying data submitted for academic credit.
  14. Collaborating in an unauthorized manner with one or more other students on an examination or any work submitted for academic credit.
  15. Committing the act of plagiarism - the deliberate copying, writing, or presenting as one's own the information, ideas, or phrasing of another person without proper acknowledgment of the true source.
  16. Using University resources in an academically dishonest manner.
  17. Falsifying evidence, intimidating, or influencing someone in connection with an honor violation investigation, hearing, or appeal.
- (SP04-38)

### INCOMPLETE GRADE POLICY

An "Incomplete Authorized" (I) signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified reasons and that there is still a possibility of earning credit. After the request of the student for the "I" grade, the faculty member makes the decision as to whether or not an "I" grade is issued. If an "I" grade is issued, the faculty member determines what conditions must be met for the "I" to be removed. However, to protect both students and faculty, it is necessary that there be a written record of the conditions. Thus, if there is a later disagreement, or if the instructor is no longer available, the "I" can still be handled by the program. The Request for an incomplete form which is to be used for writing the conditions mentioned above is available in the program administrative support offices. This form shall include a statement of:

1. the work not completed and the percentage that each uncompleted assignment will count toward the final grade; and

2. the final grade the instructor will assign if the course requirements are not completed within one calendar year, or a shorter period as specified on the form, immediately following the term in which the "I" was assigned, without respect to continuous enrollment of the student during this period.

A copy of the agreement is to be given to the student and a copy is to be retained in the program office. The completed forms are filed in the program office. The awarding of an "I" requires prior consultation with the student. The student has the responsibility to confer with the faculty member to learn the requirements for removal of the "I". At that time the student is given a copy of the form detailing the conditions to be met. An "I" must be made up within the time period set forth by the instructor with a maximum allowable time span of one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an "I" being converted to an "IC" symbol, unless the faculty member assigns a specific letter grade at the time the Incomplete is assigned, which would replace the "I" in the student's record at the end of the calendar year deadline. The "IC" is counted as a failing grade (equivalent to an "F") for grade point average and progress point computation. Although the one-year maximum for incomplete grades will be the general university policy, Executive Order 171 specifies that exceptions can be made in special cases, such as military service and serious health problems. An extension of an "I" grade in any one course shall be allowed only one time, for a maximum total extension of one year. An "I" may not be changed to a passing grade as the result of re-enrolling in the course. In cases where repetition of the course is appropriate, the student will be assigned a withdrawal or failing grade rather than an "I" grade. A failing grade is not an acceptable reason to request or grant an incomplete grade. If a student subsequently completes a course that is recorded as incomplete on a transcript from another institution, it is the student's responsibility to submit a corrected official transcript and advise the Office of Admissions and Records that he/she wishes to receive credit.

(SP03-18)

### INTENT TO ENROLL

**Accountability**  
Enrollment Services

#### Applicability

Any undergraduate applicant who has been offered admission to the University.

#### Definition(s)

Intent to Enroll: Form used by applicant to notify the University of his/her acceptance of the offer of admission.

## Text

Admitted undergraduate applicants are required to indicate their acceptance of the offer of admission by submitting the Intent to Enroll form and enrollment confirmation deposit, if requested, by the published deadline. Failure to submit the Intent to Enroll by the deadline may result in the applicant's inability to enroll in classes or otherwise be accommodated at the University. (SA.02.007)

## INTERNATIONAL PROGRAM CREDIT

Course credits earned in universities abroad may be accepted for degree credit at CSU Channel Islands subject to evaluation by the Office of Admissions and Records. Specific course equivalencies may require consultation with individual program coordinators. CSU Channel Islands students who desire, subsequently, to take courses at a foreign university for degree credit must have each such course approved in advance in writing by the program coordinator. (SR 36-01)

## INTERNSHIPS

The following policies will pertain to all courses or programs designated as academic internships.

### 1. Definition

*Internships integrate the students' academic study with practical experience in cooperating organizations. Through the integration of practical and academic experience, students enhance their academic knowledge in their area of study, their personal development, and their professional preparation. The teaching faculty and the on-site supervisors share in the educational process of interns.*

Any academic department/program/unit/faculty can develop their appropriate guidelines and procedures and structure regarding internships. However, for the purposes of legally minimizing the risk of liability and ensuring a safe and effective internship program for the University, students, faculty and partner organizations, the following policy should be incorporated into any university-related internship program.

### 2. All internships should:

- a. \*Include a signed agreement with a senior representative of the partner agency or corporation and the University procurement officer as designated signature authority. In this agreement, it must be stated that the university assumes no risk or liability and that the sponsoring agency/corporation assumes full responsibility for the liability of the intern, affirming that they have requisite insurance to cover any potential harm to the intern, and include basic information such as location, contact person, and organization description.
- b. Include a learning agreement signed by the student, sponsoring faculty, and placement supervisor listing the learning goals of the internship and the

duties and responsibilities of each party, notifying the student of the assignment of liability, terms and conditions and the listing of relevant agency policies, and the date the internship begins. This includes mention of whether the intern is paid and conditions for receiving academic credit.

Faculty and/or programs must maintain a file of the aforementioned signed forms. The Dean of faculty will also retain a sample copy of internship forms that are used.

*\*This requirement is pursuant to Executive order 849, page 6: "Student placement agreements must be in writing and shall specify minimum insurance requirements applicable to the contracting parties and appropriate hold harmless provisions based upon the needs of the contracting parties. The following hold harmless provisions may be used as a minimum:*

*Hold Harmless Provision: CSU Channel Islands shall be responsible for damages caused by the negligence of its officers, employees and agents. Trustees shall be responsible for the damages caused by the negligence of its officers, employees and agents. The intent of this paragraph is to impose responsibility on each part for the negligence of its officer's employees and agents."*

(SP03-17)

## ISSUING OFFICIAL TRANSCRIPTS

### Accountability

University Registrar

### Applicability

Any student who has ever enrolled in an academic program at CSU Channel Islands may request an official transcript.

### Definition(s)

*Official Transcript of Record* shall consist of a summary of the courses for which academic credit, including Continuing Education Units (CEU), is attempted by the student at CSUCI.

*Request for Official Transcript* is the authorization from the student to the University to release the above defined transcript of the student's record.

### Text

An Official Transcript of Record is released upon request of the student. Such requests must be made in writing either by completing the Request for Official Transcript form or by writing a letter. All written requests must be signed by the student.

Transcripts will be issued as soon as possible after receipt of the request and any applicable processing fee. All outstanding debts and obligations to the University must be cleared prior to release of transcript. It is the student's responsibility to notify Records and Registration when such debts and obligations have been satisfied.

Transcripts are normally issued via U.S. Mail to the recipient designated by the student. Prior arrangement must be made in order for transcripts to be picked up by the student. Pick up of transcripts by student's designee must be authorized in writing at the time of request. (SA.02.009)

## **LANGUAGE AND MULTICULTURAL REQUIREMENTS**

1. The language requirement can be met by satisfying General Education category C3a with a grade of C or better. Students who are G.E. certified in Section C must still meet the language requirement for graduation and may do so either by passing a C3a course with a grade of "C" or better or by demonstrating proficiency through examination. Students will also receive credit for having advanced proficiency in a language other than English. This proficiency can be demonstrated via an examination that assesses the student's language skills (speaking, listening, reading and writing) on a variety of informal and formal topics. By passing this examination, students fulfill the graduation exit requirement for language. For purposes of the General Education requirement, however, students receive content credit but not unit credit.
  2. The multicultural requirement can be met by satisfying General Education category C3b with a grade of C or better.
- (SP 03-27)

## **MINIMUM GRADUATE GPA**

A minimum grade point average of 3.0 (B) is required across all letter-graded courses taken to satisfy requirements for the graduate degree. Programs may implement stricter grade requirements.

(SP 05-22)

## **MISSION-BASED AWARDS**

All graduating CSUCI students are eligible to apply for one or more of these awards during the year of their graduation. These awards are based on the CSUCI mission statement and honor those students who exemplify the values of CSUCI as stated in the mission statement.

Each of the following awards will be granted to one graduate per year, and no student shall be awarded more than one of these awards. The selection committee may also elect to not give an award for a given year.

Students applying for these awards are expected to state how they have exemplified the educational outcomes and approaches outlined in the mission, either through exceptional curricular activity, and/or through extra-curricular activity while a student at CSUCI.

Each year a selection committee will be appointed by the Provost. In consultation with the faculty, all mission-based centers, and others in the campus community, the committee will make and distribute applications stating

specific criteria for each award, review the applicants' submissions, and select recipients of these awards in accordance with the guidelines.

### **Outstanding Integrative Approaches Award**

Granted to a student who exemplifies an education marked by integrative approaches from more than one discipline.

### **Outstanding Experiential and Service Learning Award**

Granted to a student who exemplifies an education marked by experiential and service learning.

### **Outstanding Multicultural Perspectives Award**

Granted to a student who demonstrates a widening of multicultural perspectives.

### **Outstanding International Perspectives Award**

Granted to a student who demonstrates a widening of international perspectives.

(SP01-41)

## **MULTIPLE MAJORS**

Students may declare more than one major. If all majors completed lead to the same degree, BA or BS, they will all appear on the diploma. If the majors lead to different degrees, the policy on double degrees applies. Double counting of courses shall conform to the policy in Senate Resolution 34-01.

(SP02-07)

## **NUMBER OF UNITS GRANTED FOR A THESIS OR PROJECT**

No more than six units of course credit may be offered for a thesis or project to fulfill the requirements of a graduate degree.

(SP 05-25)

## **OPEN UNIVERSITY**

Open University permits non-matriculated students to register concurrently with matriculated students in regular classes. Up to 24 units earned through Open University and Extension (see Extension Programs) may be applied to a bachelor's degree at CSU Channel Islands, and up to 9 units may be applied to a master's degree.

## **PLACEMENT TEST REQUIREMENTS, SYSTEMWIDE**

The California State University requires each entering undergraduate, except those who qualify for an exemption, to take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. They are designed to identify entering students who may need additional support in acquiring basic English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not



demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms.

Students register for the EPT and/or ELM at their local CSU campus. Questions about test dates and registration materials may be addressed to the office of Student Life located in the Bell Tower Building, (805) 437-8510.

### English Placement Test (EPT)

The CSU English Placement Test (EPT) is designed to assess the level of reading and writing skills of entering undergraduate students so that they can be placed in appropriate baccalaureate-level courses). The CSU EPT must be completed by all entering undergraduates, with the exception of those who present proof of one of the following:

- A score of “Exempt” on the augmented English CST taken in grade 11.
- A score of 550 or above on the verbal section of the College Board SAT I Reasoning Test taken April 1995 or later.
- A score of 24 or above on the enhanced ACT English Test taken October 1989 or later.
- A score of 680 or above on the re-centered and adjusted College Board SAT II: Writing Test taken May 1998 or later.
- A score of 3, 4, or 5 on either the Language and Composition or the Composition and Literature examination of the College Board Scholastic Advanced Placement program.
- Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) written communication requirement, provided such course was completed with a grade of C or better.

### Directed Self Placement (DSP)

Directed Self Placement will be the only method used on the Channel Islands campus to place students into freshman composition courses. EPT scores will not be used. Students will be given guidance in Directed Self Placement during Orientation, and will select either English 105, Composition and Rhetoric, or the English 102, 103 Stretch Composition sequence. Completion of either English 105 or English 102 plus English 103 satisfies the freshman writing requirement.

### Entry Level Mathematics (ELM) Placement Examination

The Entry Level Mathematics (ELM) Placement Examination is designed to assess the skill levels of entering CSU students in the areas of mathematics typically covered in three years of rigorous college preparatory mathematics courses in high school (Algebra I, Algebra II, and Geometry). The CSU ELM must

be completed by all entering undergraduates, with the exception of those who present proof of one of the following:

- A score of “Exempt” on the augmented mathematics CST taken in grade 11;
- A score of 550 or above on the mathematics section of the College Board SAT I Reasoning Test or on the College Board SAT II Mathematics Tests Level I, IC (Calculator), II, or IIC (Calculator);
- A score of 23 or above on the American College Testing Mathematics Test;
- A score of 3 or above on the College Board Advanced Placement Mathematics examination (AB or BC) or Statistics examination; or
- Completion and transfer of a course that satisfies the General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) quantitative reasoning requirement provided such course was completed with a grade of C or better.

### PREREQUISITE COURSES TO MEET GRADUATE DEGREE REQUIREMENTS, USE OF

No undergraduate courses taken to satisfy prerequisite requirements for admission to a graduate program may be included in the minimum number of units required for that program.  
(SP 05-20)

### PROGRAM HONORS

Program honors will be awarded based on criteria developed by individual programs.  
(SP01-41)

### REPEAT POLICY (FORGIVENESS OF PREVIOUSLY EARNED GRADE)

The Forgiveness of Previously Earned Grade Policy may be used only by undergraduate students. It may not be used by graduate/post baccalaureate students working on master's degrees, graduate certificates, teaching credentials or by unclassified post baccalaureate students, even when they might take undergraduate courses.

1. In the case of a repeated course, the subsequent grade is substituted for the earlier one in the computation of units attempted and grade point average. The previous course grade(s) remain(s) on the record, but is/are annotated as being discounted from grade point average calculations.
2. This policy applies only to courses taken at CSUCI and repeated at CSUCI.
3. A student may repeat up to a total of eighteen (18) semester units taken at CSUCI, for forgiveness. Beyond 18 semester units, all grades received will be averaged into the GPA.
4. This policy may be used only on grades of “WU,” “F,” “D-,” “D,” “D+,” “C-,” “C,” “IC.”
5. This policy may not be used on grades of “A+,” “A,” “A-,” “B+,” “B,” “B-,” “C+,” “C,” “I.”
6. A grade assigned as a result of student disciplinary procedures cannot be forgiven and will be computed in the grade point average.  
(SP03-32)

## RESIDENCE REQUIRED FOR THE MASTER'S DEGREE

A minimum of 21 semester units must be taken in residence after admission to the graduate program offering the degree. The program may authorize the substitution of credit earned by alternate means for a part of this residence requirement.

## SEMESTER HONORS

CSUCI undergraduate students completing 12 or more units with a letter grade in a single semester or completing 12 or more units with a letter grade in one academic year assessed at the end of the spring semester, shall be named to the Semester Honors list if they earn a 3.75 or higher grade point average. (SP03-19)

## STUDENT JUDICIAL PROCESS

### Accountability

The Vice President for Student Affairs and Judicial Affairs in the Office of the Dean of Student Life

### Applicability

All registered students at CSUCI

### Definition(s)

*Adjudicated* – To hear, determine, and settle a case by judicial procedure.

*Preponderance* – Evidence presented which establishes a majority (51%) in favor of one side or the other.

*Adverse-witness* – A witness for the University testifying against the accused student.

*Informal Disposition* – Resolution without formal trial-type hearing usually by mutual agreement between the student and the Judicial Officer, including the sanctions to be imposed, if any.

### Text

Where possible, informal procedures are implemented, emphasizing the personal growth and development of the student. Where formal procedures are utilized, the system is designed to provide a prompt, fair, impartial hearing and resolution of the matter. When a complaint is received by Judicial Affairs (the Office of the Dean of Student Life), the Judicial Officer investigates the complaint or allegation. If there is evidence to substantiate the charge, the Judicial Officer will initiate the student disciplinary process. Judicial Affairs notifies the student(s) in writing of the alleged misconduct and directs the student(s) to schedule a meeting with the Judicial Officer.

At the initial meeting, the student is advised of his/her rights and informed of the evidence supporting the charges. The student is provided with an opportunity to respond and to openly and honestly discuss the incident and possible resolutions of the case. Students involved in criminal violations are subject to remedies through the criminal justice system (e.g. University Police Department and the Ventura County District Attorney's office) as well as Student Disciplinary action. In the

event that a resolution cannot be reached through the informal process the Judicial Officer shall proceed to a formal process.

The following rights shall be explained to the accused prior to the commencement of any formal judicial hearing:

- All parties shall be afforded reasonable written notice, at least five (5) working days prior to the hearing. A letter sent to the address listed in the registrar's records shall constitute full and adequate notice. Written notice shall include:
  - A statement of the time, place and nature of the proceeding.
  - A statement of the nature of the case and of the jurisdiction under which it is to be adjudicated.
  - A brief statement of matters asserted. Thereafter, upon request by the accused, a more detailed and definitive statement will be furnished prior to the commencement of any formal hearing.
- An accused student may choose to have an advisor present at the hearings.
- All hearings will be conducted on the basis that the accused is not in violation until the preponderance of evidence proves otherwise.
- All hearings shall be private and closed only to persons directly involved in the matters being adjudicated. The accused may request that a hearing be open to others. The University shall consider such a request in light of the best interests of all persons involved and of the university.
- The accused may inspect any evidence presented in support of the charges. Evidence may be presented in defense of the accused.
- The accused may hear and question adverse witnesses.
- The accused shall not be forced to present self-incriminating evidence; however, the University is not required to postpone disciplinary proceedings pending the outcome of any criminal prosecution.
- The determination of "in violation" or "not in violation" as charged, shall be based solely on the evidence presented at the hearing.
- The determination from a formal hearing and any sanctions assigned and the Student's Appeal Rights shall be furnished in writing to the accused within five (5) working days following the hearing.
- The enrollment status of the accused shall remain unchanged pending the University's final decision in the matter except in cases where the President or President's designee determines that the safety, health, or general welfare of a student or the University is involved.

The Judicial Officer and/or the Hearing Officer may recommend any disciplinary action listed below with any appropriate modifications as well as any of the penalties listed under informal disposition.

### Verbal Disciplinary Warning

A verbal disciplinary warning is an official warning that the student's behavior is in violation of the CSUCI

Student Code of Conduct. The verbal warning is the least severe of all the sanctions. If the student is found to be in violation of a second charge, subsequent action may be more severe.

### Written Disciplinary Warning

A written disciplinary warning is an official reprimand for violations of specified University policies or campus regulations. The written warning is placed in the student's file for a specified period of time. The warning is then removed if the student does not commit any further violations during the specified time. If the student is found to be in violation of a second charge, subsequent action may be more severe.

### Disciplinary Probation

Disciplinary probation status is designed for a specific length of time extending from a month to a number of semesters. Restrictive conditions may be imposed and vary according to the severity of the offense. Restrictive conditions include, but are not limited to, the following: loss of good standing, which may become a matter of record; the loss of eligibility to receive any University award, scholarship, loan, honorary recognition, or initiation into any local or national organizations; denial of the privilege to occupy a position of leadership or responsibility in a University student organization, publication, or activity, and loss of privilege to represent the University in a public capacity.

While under disciplinary probation, the student is given a chance to show the capability and willingness to live in accordance with the University rules. However, if the student is found to be in violation through another action while on disciplinary probation, more serious consideration will be given to suspension or expulsion from the University.

### Suspension\*

A student involved in an offense warranting consideration of action more serious than disciplinary probation, or one involved in repeated misconduct may face suspension. Suspension is the separation of the student from the University for a specified period of time, after which the student is eligible to return, provided that the student has complied with any conditions imposed as part of the suspension. The length of the suspension period shall be definite and may extend from days to a number of semesters. During suspension, a student may not attend class.

### Expulsion\*

Expulsion is the permanent separation of the student from student status from the University. When an offense is of such severity that the University will not allow the student to re-enroll, the student will be expelled. When a student has been expelled from the University for disciplinary reasons, a full report will be placed in the permanent record of the individual concerned.

\* These sanctions may be deferred, i.e., the student may be permitted to remain in school on condition that he/

she waives the right to a formal hearing for a subsequent violation. Sanctions may be imposed separately or in combination with other disciplinary action.

### Restitution

Reimbursement, either monetary or by service(s) performed to, or misappropriation of University property, or property belonging to campus community members.

### Special Assignment

Assignment of costs, labor, duties or other responsibilities, (e.g., apology, research paper, community services etc.), which are appropriate to the violations. Special assignments may be imposed at any level of sanctions.  
(SA.11.002)

## SUBMISSION OF OFFICIAL TRANSCRIPTS

### Accountability

Director of Admissions and Recruitment and the University Registrar

### Applicability

All applicants for admission to degree-, credential-, or certificate-granting programs at CSU Channel Islands.

### Definition(s)

Official Transcripts include all prior coursework attempted, withdrawn, completed, and in-progress at all institutions, colleges, universities, or high schools.

### Text

1. A transcript is considered official if it is sent directly from the institution of origin to the office of Admissions and Recruitment at CSU Channel Islands and bears the official seal of the institution of origin and the signature of the custodian of records. A transcript hand-carried by the applicant from the institution of origin in an envelope sealed by the issuing institution is also considered official. A transcript bearing a college seal is not official unless it meets the above guidelines.
2. Official transcripts are required from all institutions attended, including extension and correspondence courses, even if withdrawal occurred prior to the completion of the course(s). The University reserves the right to determine whether a transcript will be accepted as official. An applicant disregarding these requirements is subject to disciplinary action and may have the application for admission cancelled.
3. As schools and colleges will send transcripts only upon the request of the student, the responsibility for insuring that official transcripts reach the office of Admissions and Recruitment rests with the applicant.
4. All transcripts submitted to CSUCI become the property of the University. Students are required to have their own personal set of transcripts from all institutions attended for advisement. The office of

Admissions and Recruitment will not provide copies from other institutions.

5. Students admitted on a Provisional basis must submit required final official transcripts by the established deadlines. Failure to comply will result in cancellation of provisional admission or a hold on further enrollment until final official transcript is received. (SA.02.010)

### **SUBSTITUTION OF COURSES**

Students who have taken a required course in their major/minor at a college or university other than CSUCI must petition to receive major/minor credit for this course. The *Course Substitution of Major or Minor Requirements for Bachelor's Degree* is available in the Records Office and Advising Center. Petitions are also available for *Request for Course Substitution: General Education/Graduation Requirements and Petition for Exception to a University Policy or Deadline*. A photocopy of the course syllabus or catalog course description is required for each course being petitioned. Please note: a final grade of "C" or better is required for the language and multicultural graduation requirements. Advisors in the Advising Center can assist students in completing course substitution petitions. Once completed, all petitions must be submitted to the Records Office, which will then route the petition to the appropriate Faculty Major Advisor, Academic Coordinator, or Committee (GE or Curriculum) for review. A copy of the petition with the determination will be emailed to the student and the original form will be kept in the student's file in the Records Office.

### **TIME LIMIT FOR APPLICATION OF COURSES TOWARDS GRADUATE DEGREE REQUIREMENTS**

All courses satisfying requirements for the master's degree program shall be completed within seven years of the date of award of the degree except where a shorter time limit is specified by the graduate program. Courses exceeding the University time limit, or the graduate program time limit, may be validated by examination or such other method of substantiation of competence as determined by the graduate program coordinator and subject to the approval of the Provost or designee. (SP 05-23)

### **UNDERGRADUATE COURSES TO MEET GRADUATE REQUIREMENTS, USE OF**

At least 70% of the total units used to meet graduate degree requirements must be in graduate level (500 & 600 level) courses. If an upper-division course is taken by a grad student to fulfill the unit requirements of a Masters program, supplemental, graduate-level work must be completed. (SP 05-24)

### **UNITS REQUIRED FOR THE MASTER'S DEGREE**

All master's degree programs must require completion of a minimum of 30 approved semester units. (SP 05-28)

### **UNIVERSITY HONORS**

To receive honors at graduation at CSU Channel Islands, a student must:

1. Complete a minimum 30 units of courses taken at CSUCI for a letter grade,
2. Earn a grade point average of 3.50 or above in all work taken at CSUCI.
3. Earn the following cumulative grade point average in all undergraduate courses, including transfer work:

#### **Summa Cum Laude**

This honor is awarded to all students who earn a grade point average of 3.90 - 4.0.

#### **Magna Cum Laude**

This honor is awarded to all students who earn a grade point average of 3.75 - 3.89

#### **Cum Laude**

This honor is awarded to all students who earn a grade point average of 3.50 - 3.74.

(SP03-24)

### **WAIT LIST POLICY**

Prior to the start of classes, students wishing to enroll in a closed course may choose to be added to a wait list. Wait listed students will be automatically enrolled in the course as space becomes available. At the instructor's discretion, students may be added to the course after the start of classes.

(SP03-20)

### **WAIVER OF COURSE REQUIREMENT**

In addition, students who believe that previous training has sufficiently prepared them in a certain area may request a waiver of a specific course requirement (subject credit only). A waiver of specific course requirements does not reduce the total number of credits required for the major or the degree nor does it reduce the residence requirement.

(SP01-37)

### **WITHDRAWAL FROM COURSES**

1. Students may drop courses during the first three weeks of classes without instructor permission.
2. After the third week of classes and before the end of the tenth week of classes, withdrawal from courses is permissible only for serious and compelling reasons. Approval signatures from the instructor and program chairs must be obtained to withdraw during this period. The withdrawal will be noted as a "W" on the student's permanent record.
3. After the tenth week of instruction, withdrawal is not permitted except in cases beyond the student's control such as accident or serious illness where the assignment of an Incomplete is not practical. Approval signatures from the instructor, program chair and Vice President for Academic Affairs (or designee) must be obtained. Withdrawal in this category will typically involve total withdrawal from the University and will be noted as a "W" on the student's permanent record.
4. Instructor Initiated Withdrawal: Instructors may drop students within the first three weeks of classes and as



early as the first day of classes for any of the following reasons:

- Student failure to attend class without having made prior arrangements with the instructor.
- Student failure to complete the prerequisites for a course before enrolling.
- Student failure to secure properly the permission of the instructor before enrolling when such permission is required.

(SP03-07)

## UNIVERSITY POLICIES

### ACADEMIC FREEDOM

Be it resolved that the Academic Senate of CSU Channel Islands affirms its commitment to upholding and preserving the principles of academic freedom: the right of faculty to teach, conduct research or other scholarship, and publish free of external constraints other than those normally denoted by the scholarly standards of a discipline, and

Be it further resolved that the Academic Senate of CSU Channel Islands fully endorses the 1940 Statement of Principles on Academic Freedom and Tenure of the AAUP ([www.aaup.org](http://www.aaup.org)), and

Be it further resolved that this campus is dedicated to fostering the free speech rights guaranteed by the First Amendment of the U.S. Constitution and to ensure that guests on campus have full opportunity to the exercise of these rights; and

Be it further resolved that the Academic Senate of CSU Channel Islands calls on the university community to maintain our campus as an open forum for free expression of ideas and diverse views in the framework of scholarly inquiry and professional ethics; and

Be it further resolved that the Academic Senate of CSU Channel Islands affirms its intent to help ensure that all relevant policies developed on this campus protect freedom of inquiry, research, expression, and teaching both inside the classroom and beyond, and

Be it finally resolved that the Academic Senate of CSU Channel Islands opposes any system or campus policy that would restrict academic freedom in the name of “security” or a “balanced approach” to controversial issues.

(SR 03-11)

### ALCOHOL AT CSUCI Accountability

For students: the Judicial Affairs Officer; for staff: the Associate Vice President for Human Resource Programs; for faculty: the Associate Vice President for Faculty Affairs & Academic Resources; for campus events and visitors: the University Police Department.

### Applicability

All CSUCI students, faculty, staff, tenants, and visitors, on campus organizations, and off campus sponsored organizations and events.

### Definition(s)

*Alcoholic Beverage*--Includes alcohol, spirits, liquor, wine, beer, and every liquid or solid containing alcohol, spirits, wine, or beer, and which contains one-half of one percent or more of alcohol by volume and which is fit for beverage purposes either alone or when diluted, mixed, or combined with other substances.

*Sale*--The exchanging of any consideration, either directly or indirectly, for an alcoholic beverage. The term “sale” also includes the imposition of any admission charge to, or any other charge for the event at which alcoholic beverages will be served exclusively to those who pay such charge. The term “consideration”, as used above, includes money or tickets, tokens or chips which have been issued in exchange for money, or anything else of value.

*University Property*--Any real property, land, facility, or annex property thereof, which is owned, leased, licensed, rented, used, or otherwise controlled by the University.

*University Event*--Any event, meeting, conference, party, or gathering that is conducted on University property or that is conducted or sponsored off campus by the University, or by a component thereof, or by an official, employee, or agent thereof, acting in his/her capacity as such, or by any club, team, or organization that is permitted to use the name of the University or that is officially affiliated with the University.

*Appropriate University Official*--President, Provost, Vice Presidents, Deans, Directors, Campus Police Officer, and Housing Administrator.

*Residence*--Any leased apartment or dwelling space on University property (including but not limited to balconies, adjacent sidewalks, parking lots and yards).

*Resident*--Any person who rents, leases, or resides in a residence.

*Student Housing Consumption Zone* – Any apartment where all occupants have completed the required Alcohol Education Program, met with the Resident Director or designee and has been granted full alcohol privileges.

### Text

The intent of this policy is neither to encourage nor to endorse the use of alcoholic beverages, but to describe the permitted and prohibited use of alcoholic beverages on campus. The University is committed to maintaining an environment that is predominantly free of the use of alcoholic beverages and in full compliance with federal and state laws and CSU System wide mandates and directives. Students, employees, or visitors who

violate laws or University policies concerning alcoholic beverages shall be subject to criminal prosecution and/or institutional sanctions. Such sanctions may include behavioral probation, suspension, or termination/expulsion.

### **Authorization for the Possession, Sale or Distribution of Alcoholic Beverages**

An individual or group may not possess, consume, sell or distribute alcoholic beverages on Cal State University Channel Islands property without the written approval from the President or designee.

### **ON-CAMPUS EVENTS**

- Any sale, furnishing, use, or consumption of an alcoholic beverage, at any on campus University Event that is made or performed by an individual, group or organization in violation of state or federal law and/or CSU System wide mandates and directives is prohibited.
- No minors shall be permitted to consume alcoholic beverages at any time. No person under twenty-one (21) years of age shall be in attendance unless specific control procedures to prevent service to and consumption by minors have been previously approved by appropriate University official.
- Any sale, furnishing, use or consumption of an alcoholic beverage at any University event without prior approval by the President or designee is prohibited. Attendance at the event shall be limited to members of the sponsoring organization and their invited guests. The event shall not be advertised or publicized as an event where alcoholic beverages are to be served. The facilitator of the event and the sponsoring organization are both responsible for compliance with applicable laws, regulations, and University policies.
- University Chief of Police must be notified in advance of any event where 100 or more people are expected and alcohol is served.
- The facilitator and/or sponsoring organization in charge of the event where alcohol is used or consumed are both individually responsible and liable for compliance with all applicable laws, regulations, University policies and procedures.
- Possession or consumption of alcoholic beverages by any student within his/her own residence or any other residence without first obtaining alcohol privileges and the dwelling designated as a Consumption Zone is prohibited. This rule also applies to students leasing space governed by the Specific Reuse Plan on behalf of the Site Authority (University Glen, The Town Center and the future Research and Development Park)
- Consumption of alcoholic beverages in a public area is prohibited, except where alcohol at an event is approved in advance by the President or the President's designee.
- Any student resident or guests that do not meet state or federal laws, CSU System wide and/or CSUCI mandates required to in order to consume alcoholic

beverages are prohibited from any student residence where alcohol is being stored or consumed or where alcohol containers are either empty or containing alcohol.

- Any person under the age of 21 years present in or admitted into a student residence in which alcoholic beverages are being served or consumed is strictly prohibited.
- Intoxication in any area of the University is prohibited.

### **OFF-CAMPUS EVENTS**

- Any sale, furnishing, use or consumption of an alcoholic beverage, at any off-campus event sponsored by a registered/recognized student club or organization without prior approval by the President or designee is prohibited.
- Intoxication by any member of a University registered/recognized student club or organization at any off-campus event is prohibited. The facilitator and/or sponsoring organization in charge of the event where alcohol is used or consumed are both individually responsible and liable for compliance with all applicable laws, regulations, University policies and procedures.

### **Enforcement of Alcohol Policies—**

Violations of University Alcohol Policy will be strictly enforced.

- On campus, the CSUCI Police Department exercises police powers in enforcing state laws regarding alcoholic beverages. Violators may be referred to the District Attorney for prosecution. In addition to requesting prosecution under appropriate laws, the University may impose its own sanctions on the students and University employees.
- Violation of the University Alcohol Policy by students for on and off campus University events will be referred to the Judicial Affairs Officer.

### **MARKETING AND SALES OF ALCOHOLIC BEVERAGES**

CSU Chancellor's Office Executive Order No. 966 prohibits the sale of alcoholic beverages at any athletic event held in University owned or operated facilities and limits alcohol advertising to beer and wine on California State University campuses in compliance with policy guidelines consistent with the "Guidelines for Beverage Alcohol Marketing" distributed by the National Inter-Association Task Force on Alcohol Issues, a higher education coalition dedicated to the responsible use and advertising of alcoholic beverages.  
(SA.03.002)

### **CAMPUS VIOLENCE**

#### **Accountability**

Established personnel and public safety procedures will serve as the mechanism for resolving situations of violence or threats of violence. For students and student applicants, this policy is administered through the Judicial Affairs Officer.

## Applicability

This policy applies to all individuals on the campus of California State University Channel Islands including vendors or guests.

## Text

CSU Channel Islands prohibits violent acts or intimidation through threat of violence. Any individual who commits a violent act or threatens to commit a violent act is subject to disciplinary action and civil or criminal prosecution as appropriate. Each allegation of violence or threat of violence will be taken seriously. Individuals are encouraged to immediately report acts of violence, threats of violence, or any other behavior that by intent, act or outcome harms another person or property, to Public Safety, their supervisor, Human Resources Programs. Students should report this conduct to any Student Affairs administrator.

CSU Channel Islands has zero tolerance for violence against any members of the University community. To fulfill this policy, the University will work to prevent violence from occurring and will ensure that federal and state laws, as well as University regulations prohibiting violence, are fully enforced. In determining whether conduct constitutes a credible threat or act of violence, the circumstances surrounding the conduct will be considered.

For the purpose of this policy, violence and threats of violence include, but are not limited to:

- any willful use of force against another;
- any act that is physically assaultive; or
- any threat, behavior or action which is interpreted by a reasonable person to potentially harm or endanger the safety of others or destroy or damage property.

(FA.31.009)

## CAREER PLACEMENT

The Office of Institutional Research may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. Any such data provided must be in a form that does not allow for the identification of any individual student. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University system.

## COMMUNICATION WITH STUDENTS

The purpose of this policy is to ensure accurate, timely, and effective communication of University business to students either by mail or email.

### 1. Mail

- a. Students shall provide the University with a current mailing address.

### 2. Email

- a. All students shall receive an email account from the University. Official student email addresses end in @dolphin.csuci.edu. Students may have email privileges restricted for disciplinary reasons.
- b. The University shall utilize the “Dolphin Email” system as the official means of communication to CSUCI students. In the event that the University is unable to communicate with a student using the “Dolphin Email” system, the University shall communicate with students via the U.S. Postal Service.
- c. Students shall check their “Dolphin Email” at least once each week.
- d. Students may redirect their University email address to another account. However, the University will not be responsible for the handling of email by outside vendors or departmental servers. Instructions for redirecting shall be available on the CSUCI “Dolphin Email” web site.
- e. Faculty shall determine how electronic forms of communication (e.g. email) will be used in their respective classes and will specify requirements to their students.
- f. All electronic communication shall meet federal and state accessibility requirements.
- g. All email sent to students shall include the name, title, email address, and telephone number of the person sending the email so that the student may verify the integrity of the email.
- h. Personal or identifying information in emails sent to students may only include directory information as defined in the University Catalog under the section entitled “Privacy Rights of Students in Education Records (FERPA)” unless the student has specified in writing to the Admissions and Records office not to release directory information.
- i. It is a violation of University policy to use University mail or a University email address to impersonate a University office, administrator, faculty, staff member, or student.
- j. Students who are suspended or expelled may have their “Dolphin Email” account closed. The account shall only be re-opened with approval from the University Judicial Affairs Officer.
- k. Complaints involving harassing email shall be investigated by the University Judicial Affairs Officer.
- l. Students who voluntarily withdraw from the University and have not completed their program degree or have not enrolled for more than one academic year, will have their email account closed at that time.
- m. Only designated University offices are eligible to send global student emails.
- n. Student email addresses shall not be provided for commercial purposes, personal gain or spamming.

(SP04-20) (SA.07.005)

## COMPUTER RELATED CRIMES

Information technology plays a critical role in determining the ultimate success of the University in the accomplishment of its mission. It touches every academic discipline and administrative service provided by the University.

Pursuant to CA Penal Code 502 and Title 5 Section 41301(b) of the California Code of Regulations, it is illegal and against University policy to knowingly access and without permission alter, damage, delete, destroy, or otherwise use any data, computer, computer system, or computer network in order to defraud, deceive, extort, or wrongfully control or obtain money, property, or data, or to knowingly access and without permission take, copy, or make use of any data from a computer, computer system, or computer network, or to knowingly access and without permission add, alter, damage, delete, or destroy any data, software, or program, or to knowingly and without permission disrupt or cause the disruption of computer services, or to knowingly and without permission provide or assist in providing a means of accessing a computer, computer system, or network or introduce a computer contaminant.

Such activities could result in: University disciplinary action, criminal action, including fines and/or imprisonment, and/or civil action by victims of computer crimes.

Any incident of suspected computer misuse as defined in this policy should be reported to the Police Department. Offices which may be involved in the university's response to reported instances of computer misuse, in addition to Public Safety, include: Human Resources, Provost and Vice President for Academic Affairs, Vice President for Student Affairs, Vice President for Finance and Administration, and Chief Information Officer.

## DISTRIBUTION OF WRITTEN MATERIALS

### Accountability

The Vice President for Student Affairs and the office of Student Leadership and Community

### Applicability

All registered students at CSUCI, non-academic functions and external campus constituencies.

### Text

1. Written materials identified by authorship and sponsorship may be sold or distributed on campus within the guidelines of propriety and responsible journalism as established and supervised by the Vice President of Student Affairs or designee. The distribution of such materials by student organizations, as approved by the Vice President for Student Affairs or designee, is permitted provided steps have been taken to preserve the orderliness of the campus.

2. The distribution of materials or circulation of petitions to captive audiences such as those in classrooms, at registration, in study areas, or in residential units will not be allowed without prior permission. Such permission may be requested from the pertinent University Vice President or designee.
3. Non-university or off-campus printed materials shall not be distributed or circulated by students or student organizations without first being approved by the Vice President for Student Affairs or designee.
4. Non-campus community members may not distribute or sell materials without seeking approval from the appropriate Vice President or designee, and in some instances may be required to obtain sponsorship from a registered student club or organization prior to receiving approval. Non-campus community members may be charged a fee for the distribution of written materials to students, faculty or staff.
5. All materials, flyers, leaflets, and brochures to be posted on campus from students, student clubs and organizations and non-university affiliated community groups must first be approved by the office of Student Leadership and Community or other appropriate university department. Other University departments may also supply materials to be posted to the office of Student Leadership and Community who will place materials in appropriate display cases and bulletin boards around campus. Every effort will be made to post requested materials within 24 hours from the time the materials are approved. All materials will be removed 14 days after approval or after the event is complete whichever comes first. Students should in no way tack, stick, glue, paste, pin, staple, or otherwise affix any materials on any door, wall, window, or other surface on campus without prior approval from the office of Student Leadership and Community. (SA.07.003)

## DRUG-FREE CAMPUS AND WORKPLACE

### Accountability

- For Staff:** AVP for Human Resources Programs  
(805) 437-8423  
Human Resources Manager  
(805) 437-8846
- For Faculty:** AVP for Faculty Affairs  
(805) 437-8485
- For Students:** Dean of Student Life  
(805) 437-8512

### Applicability

All students, faculty, staff, volunteers, members of the public, student assistants and vendors contracting with CSUCI including temporary employees and others who perform work for the benefit of CSUCI.

### Definitions Controlled substances

Controlled substances are those substances defined in schedules I through V of the Controlled Substances Act, 21 U.S.C. §812, and by regulation at 21 C.F.R. §1308.



*Illegal substances*

Illegal substances are controlled substances listed in the Controlled Substance Act which are obtained illegally.

*Legal substances*

Legal substances are (1) controlled substances that are prescribed or administered by a licensed physician or health-care professional; (2) over-the-counter drugs; and (3) alcoholic beverages.

**Text**

California State University Channel Islands is committed to providing a safe, healthy and productive work and academic environment for all its employees and students. Consistent with its concern for the well-being of its faculty, staff and students, it is the policy of the University to maintain a work and academic environment free from drug and alcohol abuse. The unlawful manufacture, distribution, dispensation, possession, sale, offer to sell, purchase, offer to purchase and/or unlawful use of controlled substances\* or alcohol on the CSUCI campus or its offsite locations, or as any part of its activities, is prohibited. Controlled substances include, but are not limited to, marijuana, heroin, cocaine, LSD, and amphetamines. In addition, employees are required to remain free from the influence of controlled substances or alcohol while on duty.

As a condition of employment, all employees of the California State University Channel Islands (this includes faculty, staff and students) are required to comply with this policy. CSUCI employees who violate this policy will be subject to disciplinary action up to and including discharge for cause. For those employees covered by a collective bargaining Agreement (CBA), the terms of the CBA shall be controlling.

An employee who is convicted (including a plea of nolo contendere [no contest]) of a criminal drug statute violation occurring in the workplace must, within five (5) calendar days after the conviction, notify CSUCI of such conviction by informing Human Resources Programs at (805) 437-8423 or (805) 437-8490.

Persons who are not employees of California State University Channel Islands, but who volunteer or perform work at the CSUCI for its benefit (such as contractors and their employees, temporary employees provided by agencies, visitors engaged in joint projects at CSUCI, etc.) are required to comply with this policy. Violation of this policy is likely to result in being barred from the workplace even for a first offense.

**COUNSELING****Employee and Student Assistance Program**

The primary focus of the CSUCI's substance abuse prevention program is education and counseling. As part of this program, CSUCI will continue to provide educational workshops for faculty, staff, and students, which will address the medical, health, psychological, social and legal ramifications of illicit drug and alcohol

use. CSUCI's Employee Assistance Program (offered through PacifiCare at Confidential Phone Number at: 1-800-234-5465) and Student Counseling Programs will continue to provide information, evaluation, counseling and referral services to students of CSUCI seeking help with personal, emotional, substance abuse, or chemical dependency problems. To take advantage of these resources, contact the appropriate office listed below:

CSUCI recognizes drug and alcohol dependency as treatable conditions and offers employee and student support programs for individuals with substance dependency problems. Employees are encouraged to seek assistance for drug and alcohol related problems through the confidential counseling provided through PacifiCare. Students may seek assistance from the Counseling and Student Health Center. The staff of Personal Counseling Services and the Student Health Center will assist students with identifying appropriate treatment resources and will refer them to counseling, treatment or rehabilitation programs, as appropriate. Information obtained regarding a student or employee during participation in any related program will be treated as confidential.

Students can reach the CSUCI Counseling and Student Health Center at (805) 437-8828

**Drug and Alcohol Awareness Program**

CSUCI has established and will maintain a drug and alcohol awareness program to educate employees and students about:

1. CSUCI's substance abuse policy;
2. The dangers of drugs and alcohol in a work and academic environment;
3. Employee and Student Assistance Programs; and
4. Disciplinary action that may be imposed on employees for violations of this policy.

On an annual basis, CSUCI will distribute to all faculty, staff and students a copy of this policy.

You are encouraged to read carefully the following Substance Abuse Policy. This policy applies to all members of the CSUCI community consistent with the requirements of the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendment of 1989. As a member of the CSUCI community, you are expected to comply with all aspects of this policy.

If you have any questions regarding the policy or resources available, please feel free to contact the following individuals:

- For Staff:** AVP for Human Resources Programs  
(805) 437-8423  
Human Resources Manager  
(805) 437-8846
- For Faculty:** AVP for Faculty Affairs  
(805) 437-8485
- For Students:** Dean of Student Life  
(805) 437-8512

## CSUCI SANCTIONS

CSUCI will impose sanctions on individuals and/or organizations that violate this policy. These sanctions will be consistently enforced and penalties will depend on the severity of the offense. Penalties can include termination from CSUCI and referral for prosecution for the most serious violations of the law and this policy. Disciplinary action may be invoked entirely apart from any civil or criminal penalties that the employee might incur. (FA.31.006)

## EOP GRANT AWARDING, POLICY ON

### Accountability

Financial Aid office and the Educational Opportunity Program (EOP)

### Applicability

All EOP students at CSUCI.

### Definition(s)

EOP – Educational Opportunity Program:

The Educational Opportunity Program is designed to improve academic support of low-income and educationally disadvantaged students. An EOP student has the potential to perform satisfactorily in the CSU but has not been able to realize this potential because of economic or educational background. The program provides admission, academic, and financial assistance to EOP-eligible undergraduate students.

At California State University Channel Islands the program is self funded and receives no state appropriation.

### Text

The priority for awarding an EOP grant is as follows:

1. Entering from high school with an expected family contribution of 0-800.
2. Continuing lower division with an expected family contribution of 0-800
3. Entering from high school with an expected family contribution of 800-4000
4. Continuing lower division with an expected family contribution of 800-4000
5. Continuing upper division with an expected family contribution of 0-800
6. Continuing upper division with an expected family contribution of 800-4000

The maximum current EOP grant for full time students is established at \$1,000 per academic year (\$500 per semester). Approval of grant eligibility for part time enrollment must be confirmed by the EOP coordinator prior to the start of the term. Grant awards will be prorated according to the following schedule.

Full time	12 + units	\$500
Three Quarter time	9-11 units	\$350
Half time	6-8 units	\$200
Less than half time	1-5 units	not eligible

If funds are disbursed at the beginning of a term based on full time enrollment and the student reduces their unit load during the initial change of program period, the EOP grant awards will be adjusted and the student will be required to return funds to the University.

Enrollment adjustments made after the initial change of program period are required to have the approval of the instructor and the Dean or Associate Dean of the Faculty. Courses dropped at this point will be reflected in a grade of “W” on the official transcript. There will be no attempt to recover EOP funds from students who drop below full time status in this manner.

Prior to the start of each term, EOP will provide a list of entering and continuing EOP students to the Office of Financial Aid. If any students have been discontinued from the program, the Office of Financial Aid should be notified as those decisions are made.

(SA.10.004)

## FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

### Accountability

This policy designates the Vice President for Student Affairs as the Compliance Officer for the University. This policy also clarifies secondary roles and responsibilities in University procedures for ensuring compliance. The Custodian of Education Records will vary, based on the type of record, as listed on the chart on the next page.

### Applicability

All students who are attending or have attended California State University Channel Islands.

### Definitions

*Student* – Any person who enrolls or has been enrolled California State University Channel Islands.

*Third Parties* – Non-university persons or entities.

*University* – Hereafter in this document a reference to California State University Channel Islands.

*University Official* – University employees who have a legitimate educational interest in the records.

*Education Records* – Any record (in handwriting, print, tapes, film or other medium) maintained by California State University Channel Islands, or an agent of the University, which is directly related to a student except:

1. A personal record kept by a staff member, if it is kept in the personal possession of the individual who made the record, and information contained in the record has never been revealed or made available to any other person except the maker's temporary substitute.
2. An employment record of an individual whose employment is not contingent on the fact that he or she is a student, provided the record is used only in relation to the individual's employment.
3. Records maintained by the University's Student

Health Services, Personal Counseling Services, or Disability Accommodation Services offices if the records are used only for treatment of a student and made available only to those persons providing treatment.

4. Alumni records which contain information about a student after he or she is no longer in attendance at the University and the records do not relate to the person as a student.

*Legitimate Educational Interest* – a school official has a legitimate educational interest in the protected education records, a legal “right to know” if the official is:

1. Performing a task that is specified in his or her position description or contract agreement: related to a student’s education; or related to the discipline of a student.
2. Providing a service or benefit relating to the student or student’s family, such as health care, counseling, job placement or financial aid.
3. Maintaining the safety and security of the campus.

The custodian of record as designated in the “Accountability” section, above, will determine whether a legitimate educational interest exists, whether the school official has a legal right to know, on a case-by-case basis. When the custodian has any question regarding the request, the custodian should withhold disclosure unless the custodian obtains written consent from the student or the concurrence of a supervisor or other appropriate official that the record may be released.

### Text

California State University Channel Islands is committed to meeting the provisions established in the Family Educational Rights and Privacy Act (FERPA), which protects the rights of students who are attending or have attended the University.

### Annual Notification

The University will notify currently enrolled students of their rights under FERPA by publishing a notice in the university catalog, and on the California State University Channel Islands website.

### Disclosure of Education Records to Student

#### A. Procedure of Students to Inspect Their Education Records

To inspect or review an education record, a student must submit a written request to the University Registrar. If students wish to inspect their student conduct records, the written request must be submitted to the Dean of Student Life. The student must sign the request; describe the specific records to be reviewed; and must set forth the name under which the student attended the University, the student’s student ID number, and the student’s last date of attendance. Proper picture identification must be presented before the documents may be reviewed. The custodian of record, or the custodian’s designee, may waive the requirement for a written request. For example, the custodian of record for the student

account may waive the requirement for a written request when the student requests a copy of the current bill.

The custodian of record or an appropriate designee will make the needed arrangements for access as promptly as possible and advise the student when and where the records will be available for inspection. Access will be given within 45 days or less after receipt of the written request.

Some student records may be destroyed (per the records retention policy) and therefore, the file may not exist for the student to inspect.

#### B. Right of University to Refuse Access

The University reserves the right to refuse permission to the inspection and review of:

- financial statements of the student’s parents;
- confidential letters and confidential statements of recommendation placed in the education record before January 1, 1975, if the student has waived his or her right to inspect and review those letters and statements, and the letters and statements relate to the student’s admission to an educational institution, application for employment, or receipt of an honor or honorary recognition; or
- confidential letters and confidential statements placed in the education record after January 1, 1975 for which the student has waived the right of access in writing for admission, employment, or receipt of an honor or honorary recognition, except when these documents have been used for any purpose other than that for which they were originally intended; and
- documents excluded from the FERPA definition of education records (such as those listed in the “Definitions” section above.)

#### C. Refusal to Provide Copies

The University reserves the right not to provide copies of transcripts it has received from other education institutions. It also reserves the right to deny copies of the University transcripts if the student has an unpaid financial obligation to the University.

#### D. Request for Copies

If health reasons or extreme distance from the University prevents the student from inspecting the education record, then copies of the specific education record requested will be mailed to the student. The student must pay all copying expenses in advance of the release of the record. The requirement of a written request will not be waived in these circumstances.

### Disclosure of Education Records to Other Than the Student to Whom the Record Pertains

#### A. Disclosure of Education Records to University Officials

The University will disclose information from a student’s education records to University officials who have a legitimate educational interest in the records.

A University official has a legitimate educational interest if the official is:

- performing a task or service specified in the official's position description or contract;
- performing an instructional task directly related to the student's education;
- performing a task related to the discipline of a student;
- performing as a faculty advisor, program director or dean; (this pertains exclusively to access to the student's academic records); or
- providing a service or benefit relating to the student, including, but not limited to, health care, counseling, job placement, financial aid, or health and safety emergency.

#### B. *Disclosure to Others*

California State University Channel Islands may disclose information from a student's education records to other than University officials only with written consent of the student, except:

- to officials of another school where the student seeks or intends to enroll;
- to certain authorized government representatives;
- in connection with the student's financial aid request or award and the information is necessary for certain purposes set forth in the regulations;
- to organizations conducting studies for or on behalf of the University;
- to accrediting organizations to carry out their accrediting function;
- to comply with a judicial order or lawfully issued subpoena and the University has made reasonable effort to notify the student of the order or subpoena in advance of compliance;
- to appropriate parties in a health or safety emergency;
- to victims of crimes of violence or of a non-forcible sex offense who requests the final results of a disciplinary review process held by the institution against the perpetrator on account of the crime or offense; or
- in connection with the University's obligation to respond to a request from military recruiters made under the Solomon Amendment.

#### C. *Records of Requests for Disclosure to Individuals*

Other than the Student or University Officials, a record will be maintained of all requests for access to and disclosures of information from the education records of each student except as stated below. The record will indicate the name of the party making the request, any additional party to whom it may be disclosed and the party's legitimate interest in requesting or obtaining the information. The record may be reviewed by the student. A record of disclosure need not be kept of disclosures to the student, a University official with legitimate educational interests, a party with written consent from the student, or a party seeking directory information.

#### D. *Directory Information*

The University designates the following items as directory information:

1. Student's name
2. University assigned e-mail address
3. Major field of study
4. Dates of attendance
5. Full-time or part-time status
6. Degrees, awards, and honors received
7. Dates degrees conferred

For Student Employees:

1. Department where employed
2. Employee Status (i.e. Graduate Assistant, Instructional Student Assistant, Teaching Associate)

Directory information may be released without prior written approval unless notified in writing by the student that all information is to be held in confidence by the University. Requests to withhold directory information should be sent in writing to the University Registrar. The student's records will be kept confidential until the student requests in writing that the confidentiality hold be removed.

#### E. *Challenge and Correction of Education Records*

Students have the right to ask to have education records corrected that they believe are inaccurate, misleading, or in violation of the privacy or other rights of the student. The following are the procedures for correcting the records.

1. The student must request an informal discussion of the questionable item with the custodian of record, who will determine whether to comply.
2. If the student is not satisfied with the result and still wishes to have the record corrected, the student must submit a written request for a change in the education record. This written request must state why the education record is inaccurate, misleading or violates the privacy or other rights of the student. This request must be given to the Vice President for Student Affairs (VPSA). The VPSA will then forward the request to the appropriate division vice president for review.
3. Upon receipt of the request, the appropriate division vice president shall obtain a written statement from the records custodian that explains why the request for the change in the education record was denied at the informal stage.
4. After a review, the Vice President will notify the student whether or not the University will comply with the requested change. If not, the Vice President will notify the student of the right to a hearing to challenge the information believed to be inaccurate, misleading, or in violation of the student's rights. A copy of this communication will be sent to the Vice President for Student Affairs.
5. Upon receiving a written request for a hearing the Vice President for Student Affairs shall arrange for a hearing within a reasonable amount of time after



receipt of the request. The student shall be notified reasonably in advance of the date, time and place of the hearing. The right to a hearing does not include any right to challenge the appropriateness of a grade determined by an instructor. The Vice President for Student Affairs or the Dean of Student Life can apprise students of the appropriate process for challenging a grade.

6. The President shall appoint a hearing officer to conduct a hearing. The hearing officer shall be a disinterested party; however, the hearing officer may be an official of the University. The student will be afforded a full and fair opportunity to present evidence relevant to the issues raised in the original request to amend the student's education records. In accordance with university policy, attorneys will not be permitted to attend the hearing.
7. The hearing officer will submit a written decision to the Vice President for Student Affairs (VPSA) based on the evidence presented at the hearing. The VPSA will communicate the decision in writing to the student within a reasonable period of time after the hearing.
8. If the University's decision is that the challenged information is inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student, the record will be amended accordingly and the student will be notified in writing by the Vice President for Student Affairs of the amendment.
9. If the University's decision is that the challenged information is not inaccurate, misleading, or in violation of the student's right of privacy, the Vice President for Student Affairs will inform the student of the right to place a statement in the record commenting on the challenged information and/or a statement setting forth reasons for disagreeing with the decision. This statement will be maintained as part of the education record as long as that record is maintained, and the statement will be disclosed whenever the University discloses the portion of the record to which the statement relates. The hearing officer's decision is final.

#### F. *Compliance with FERPA*

A student has the right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address for the office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Ave. SW  
Washington, DC 20202-4605

#### G. *Periodic Review of Campus Information Management Practices*

Per California State University Executive Order

No. 796, a periodic review of campus information management practices concerning student records will be conducted at least every two years or more often as the need arises.

1. The campus Compliance Officer will have the responsibility for ensuring that the periodic review is conducted and that appropriate reports resulting from these reviews be submitted to the President to be forwarded to the Chancellor's Office.
2. Any recommended changes to the policy and/or its procedures will be the responsibility of the Compliance Officer to complete in consultation with designated records custodians.

(SA.16.001)

## FEDERAL WORK STUDY

### Accountability

Financial Aid office, Payroll and Human Resources.

### Applicability

All students applying for and receiving assistance through this program.

### Definition(s)

The Federal Work Study Program is a financial aid program funded by the Federal Government and is intended to provide part-time employment opportunities for eligible students who need additional financial resources to pursue a college education.

*ISIR*: Institutional Student Information Report. An electronic record received by CSUCI from the Federal Government when the student files a FAFSA form (Free Application for Federal Student Aid).

*EFC*: Expected Family Contribution. The eligibility value delivered on the ISIR.

Financial Need equals the cost of attendance minus the federal Expected Family Contribution.

*Unmet need*: The amount remaining after a student total financial aid resources and awards have been awarded to meet financial need.

### Text

#### ELIGIBILITY

Students who have applied for financial aid through the FAFSA application process and have been awarded Federal Work Study funds may participate. To be eligible, a student must demonstrate need that meets or exceeds the award to meet the award amount authorized by the Financial Aid office. Students may reduce their student loan eligibility to be eligible for FWS. Students must be currently enrolled at least half time (6 units) to be eligible to participate.

FWS employment must be suspended or terminated in all cases where a student no longer meets federal requirements for financial aid or campus requirements for employment. A student's FWS employment must be terminated by the last day of the pay period in which

their award expires. If a student becomes ineligible to participate in the Federal Work Study Program, the employer immediately becomes responsible to pay the full earnings of the student. The Employer is also responsible for paying student earnings once the full federal work study award has been earned.

### **AWARDING**

Funds are limited and not all eligible students will be able to participate in the program. Employment and funding are awarded on a first-come, first-served basis. Priority is given to students who demonstrate the highest need and applied for financial aid on or before the priority deadline of March 2nd. Federal Work Study award amounts will be determined by the Financial Aid Office to maximize program effectiveness. Awards will continue to be awarded until all funds have been exhausted. FWS awards may be withdrawn or reduced according to fund availability.

### **JOB PLACEMENT**

Students are responsible for finding employment on campus through Career Development Services or in Federal Work Study approved off-campus positions through the Office of Service Learning and Civic Engagement. Job placement is not guaranteed.

### **EMPLOYMENT GUIDELINES**

Work Study students are limited to working up to a maximum of 20 hours per week during a regular academic semester in which they are enrolled. During non-enrollment periods such as semester breaks, FWS students may work up to a maximum of 40 hours per week. There are no exceptions to allow a student to work during the time they should be in class. Under no circumstance can a student be authorized to earn over-time pay. Wages earned during a period of non-enrollment (excluding winter and spring breaks) must be used to cover costs associated with educational expenses for the next period of enrollment. (34 CFR 375.25b)

No campus department shall charge a student's employment to the FWS program without the approval of the Financial Aid Office. The FWS program will be administered in accordance with all CSU Human Resources policies and procedures. All standards of employment will be met including, but not limited to: job descriptions, pay rates, hours of employment, payroll certification and other HR requirements.

The University will offer employment both on and off campus. In accordance with federal regulations, the University establishes contracts with non-profit agencies that serve a community need. A contract will be developed with each agency employing FWS students that outlines the responsibilities of the agency including any administrative fees that may be applicable as well as the employer's share of student payroll. (SA.10.005)

## **FINANCIAL AID PACKAGING**

### **Accountability**

Financial Aid office

### **Applicability**

All registered students at CSUCI

### **Definition(s)**

Institutional Student Information Report (ISIR) – An electronic record received by CSUCI from the Federal Government when the student files a FAFSA form (Free Application for Federal Student Aid).

### **Text**

#### **ELIGIBILITY**

Financial aid eligibility is measured using federal, state, CSU and institutional standards. All students must meet program eligibility criteria as established by the funding entity. All students are required to have a valid Institutional Student Information Report (ISIR) on file before aid is awarded. All students must be enrolled or accepted for enrollment in an eligible university program. The enrollment and program record must be recorded in the Student Administration System. These packaging standards given are for full time enrolled students. The Financial Aid Office is authorized to reduce funding for part time enrollment.

#### **PELL GRANT**

Pell Grant is the foundation of the aid package. As Pell eligibility is assessed by a national standard, no institutional adjustment of the amount of a Pell award can be made, except as required by regulation due to changes in enrollment status.

#### **STATE UNIVERSITY GRANT**

State University Grant funds are awarded in accordance with CSU policy which was issued on March 8, 2001, to CSU Presidents from Executive Vice Chancellor David Spence. This CSU policy establishes system wide standards as well as sets the maximum award amounts based on the enrollment category.

CSUCI policy on State University Grant eligibility can be found in the CSUCI policy manual.

A State University Grant is awarded up to the full amount of fees minus any fee based Cal Grant awards or waivers. Additional amounts may be awarded up to the maximums established by the Chancellor on a case-by-case basis. Awards may vary based on state funding. The Financial Aid Office is authorized to adjust award amounts to maximize program effectiveness.

A State University grant is awarded only to students accepted in degree or credential programs. Post baccalaureate unclassified students are not eligible for financial aid.

Priority is given to on-time undergraduate applicants with an expected family contribution of \$800 or less and no award is made to students whose expected family contribution exceeds \$4000.

### **EOP GRANT**

EOP grant funds are awarded only to undergraduate students accepted for admission through the CSU EOP program. Eligibility must be confirmed by the EOP Office.

An EOP grant is awarded up to a maximum of \$1000 per academic year.

Priority is given to on-time undergraduate applicants with an expected family contribution of \$800 or less.

### **STAFFORD LOANS**

Subsidized Stafford loans are awarded to meet a remaining need. Federal rules regarding class level and cumulative maximum amounts are followed by the Financial Aid Office.

Unsubsidized Stafford loans are awarded to upper division and post baccalaureate students. Lower division students may receive unsubsidized loans after a review of their circumstances.

### **WORK STUDY**

State Work Study funds are awarded to undergraduates who prefer that their eligibility for Stafford Loans be reduced. This program has limited funding and is subject to the State budget process.

### **COORDINATION**

As required by regulation, all aid components and other available resources are reviewed to insure that aid is awarded appropriately and that no duplication of aid resources occurs. Consultation with awarding authorities will take place to determine award priorities. (SA.10.001)

### **FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS**

#### **Accountability**

Financial Aid office

#### **Applicability**

All registered students at California State University Channel Islands.

#### **Text**

This policy has four parts. All four conditions must be met to be eligible for financial aid. Students who have been awarded financial aid and do not meet these conditions will have their aid canceled.

### **Part One: Acceptable Passing Rate (Quantitative Standards)**

To assess quantitative standards the overall ratio of cumulative units passed to cumulative units taken is reviewed. As a student progresses, this expected ratio or percentage increases. The required ratios are represented in the chart below.

	Class level	Percentage of cumulative units taken which must be passed.
Undergraduate degree	Freshman	75%
	Sophomore	80%
	Junior	85%
	Senior/2nd BA	90%
Post-baccalaureate Credential		90%
Graduate degree		90%

### **Part Two: Acceptable Grade Point Average (Qualitative Standards)**

Students Academically Disqualified by the University are ineligible for financial aid based on qualitative standards.

### **Part Three: Unit and Time Limits**

Students exceeding the unit and time limits listed below are ineligible for financial aid. Students working toward their first undergraduate degree are limited to 150 earned units (including transfer units). Students who have earned their first undergraduate degree and are enrolled in a second baccalaureate program are limited to 48 earned units. Students in a credential program are limited to 48 earned units including prerequisite courses. Students in a master's program are limited to 48 earned units including prerequisite courses.

### **Part Four: Other Provisions**

- Any student whose academic history shows a pattern of enrollment indicating inability or unwillingness to progress, such as numerous withdrawals or enrollment inconsistent with the student's educational objective, may be regarded as ineligible for future financial aid.
- Students who exceed the university limit of CR/NC units while receiving aid funds are subject to review of continued eligibility.
- Students who have completed all undergraduate degree course requirements but have not graduated for any reason are not eligible for funding.
- Any financial aid award is tentative until the academic record is reviewed. For entering transfer students, the review is based on the academic record on file at the time of first consideration (or when information becomes available).
- A student who completes no units in any term of enrollment is not considered to be making reasonable progress toward a degree. Students in this category will be disqualified from receiving aid the following term and may be subject to repayment of previous term aid received.

- Academic progress can be reevaluated at other times identified by the Office of Financial Aid.

### Reinstatement of Eligibility

Students may appeal the satisfactory progress determination by submitting a written petition to the Office of Financial Aid citing mitigating circumstances as provided for in regulation. This petition may be supported by additional documentation and may include the recommendation(s) of faculty who are familiar with the student's academic history.

The criteria for approving a petition will be a reasonable expectation that the student can reestablish progress toward a degree objective and regain standing consistent with the requirements for graduation. If a decision is made to restore aid eligibility, conditions may be imposed and eligibility may be restricted to a limited time frame.  
(SA.10.003)

### IMMIGRATION REQUIREMENTS FOR LICENSURE

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility

and Work Opportunity Reconciliation Act to achieve licensure. Information concerning the regulation these requirements are available from the Office of Human Resources in University Hall, or by telephone at (805) 437-8490.

### NONDISCRIMINATION FOR STUDENTS

#### Accountability

This policy is administered through the Judicial Affairs Officer. Questions, concerns, suggestions, or complaints should be directed to the Judicial Affairs Officer.

#### Applicability

This policy applies to all students including student applicants as it relates to all University programs and services.

Employees should refer to the California State University System-wide Guidelines for Nondiscrimination and Affirmative Action Programs in Employment.

#### Text

It is the policy of California State University Channel Islands, in accordance with the Board of Trustees' Policy on Non-discrimination, that California State University Channel Islands will consider decisions regarding admission to, access to, or operation of instruction, programs, services, or activities without regard to race, color, religious creed, national origin, ancestry, disability, pregnancy, medical condition, gender, gender identity, sexual orientation, marital status, age or veteran status. We also do not discriminate in recruitment, student employment, and other actions and practices affecting students.

### Accountability for Student Records

TYPES	LOCATION	CUSTODIAN
Academic (e.g., transcript, transfer work, class schedule, degree requirements, probation, petitions, etc.)	Records & Registration Enrollment Center Sage Hall, Rm. 1020	University Registrar
Disciplinary/Student Life	Judicial Affairs Bell Tower, 1st Floor, East Wing	Dean of Student Life
Financial Aid	Financial Aid Office Enrollment Center Sage Hall, Rm. 1020	Director of Financial Aid
Student Accounts	Student Financial Services University Hall	Vice President for Finance & Administration
Placement	Career Development Services Bell Tower, Rm. 1865	Coordinator of Career Development Services
Student Payroll	Human Resources University Hall	Associate VP HR
Public Safety	Public Safety Services Public Safety Building	Chief of Police
Occasional (e.g., Correspondence in office not listed above)	University staff who will direct the student to the location that maintains records	University Registrar



Upon request, the University will consider reasonable accommodation to permit individuals with protected disabilities to (a) complete the admission process, (b) perform essential student employment or work-study functions, (c) participate in instruction, programs, services or activities, and (d) enjoy other benefits and privileges of similarly situated individuals without disabilities.  
(FA.31.007)

## **NONDISCRIMINATION POLICY**

### **RACE, COLOR, AND NATIONAL ORIGIN**

The California State University complies with the requirements of Title VI and Title VII of the Civil Rights Act of 1964, as well as other applicable federal and state laws prohibiting discrimination. No person shall, on the basis of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in any program of the California State University.

### **DISABILITY**

The California State University does not discriminate on the basis of disability in admission or access to, or treatment or employment in, its programs and activities. Sections 504 and 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and various state laws prohibit such discrimination. Eddie L. Washington, Associate Vice President, Human Resources, has been designated to coordinate the efforts of CSU Channel Islands to comply with all relevant disability laws. Inquiries concerning compliance may be addressed to this person at (805) 437-8490.

### **SEX/GENDER**

The California State University does not discriminate on the basis of sex, gender or sexual orientation in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972 and certain other federal and state laws prohibit discrimination on these bases in education programs and activities operated by CSU Channel Islands. Such programs and activities include admission of students and employment. Inquiries concerning the application of these laws to programs and activities of CSU Channel Islands may be referred to the Office of Human Resources who are assigned the administrative responsibility of reviewing such matters or to the Regional Director of the Office of Civil Rights, Region IX, 50 United Nations Plaza, Room 239, San Francisco, California 94102.

The California State University is committed to providing equal opportunities to male and female CSU students in all campus programs, including intercollegiate athletics.

*Procedures related to this policy may be obtained through the Human Resources Department (805-437-8490).*

## **PARKING AND TRAFFIC**

### **Accountability**

The Chief of Police and the Director of Transportation and Parking Services.

### **Applicability**

This policy applies to all California State University Channel Islands (CSUCI) employees, students, tenants, volunteers and visitors.

### **Definition(s)**

*Students* - Students are defined as anyone that is enrolled in classes and is primarily on campus to pursue their educational goals. This excludes full time and permanent part time employees.

*Employees* - For the purpose of this policy, "employees" includes all faculty, staff, temporary employees, and other support personnel employed by the university, excluding unit 11 employees. (Note: Student part time workers, graduate assistants and teaching associates are excluded from this definition because they are primarily on campus for purposes related to obtaining their educational goal and therefore are not considered employees for the purpose of the policy.)

*Tenants* - Tenants are defined as any organization, person or employees of an organization or person(s) with an executed lease with CSUCI.

*University Property* - University property is defined as all property owned, leased, and /or controlled by CSUCI.

### **Text**

Operation and parking of vehicles on the campus is regulated and enforced pursuant to the California Vehicle Code. All California Vehicle Code laws pertaining to vehicular operation and parking are in effect and enforced on campus 24 hours a day, 7 days a week. Citations will be issued for violations of any section of the California Vehicle Code. Citation Appeals and Administrative Hearings procedures shall be in accordance with the California Vehicle Code sections 40215 and 40220.

The following policy and regulations apply on campus.

### **PARKING**

Parking on campus is by permit only with the exception of metered and visitor spaces. Parking is allowed only in lots appropriate to the permit purchased. Unless indicated by signage, street parking is prohibited on campus and outlying areas.

- **Employees:** All employees utilizing the parking facilities at CSUCI for their privately owned vehicles will be required to pay a parking fee.
- **Students and Tenants:** Students and Tenants are required to purchase parking and may utilize metered parking or parking lots appropriate to the permit purchased.

- **Disabled Students Parking Fee Waiver:** To facilitate the parking needs of students with disabilities, the California State University Channel Islands Parking Services may issue a parking permit on a semester basis to students with disabilities if they meet the following criteria:
  - Proof of registration at California State University Channel Islands for the period specified in the waiver;
  - A disability placard or license plate issued in their name from the California Department of Motor Vehicles or appropriate authorization from another state;
  - Proof of eligibility for Federal Financial Aid from the campus Financial Aid Office for the period specified in the waiver.
- **Visitors:** Persons not employed by the campus, who are visiting the campus for the purpose of transacting State business with the campus or visitors that are designated by authorized administrators to assist with the planning and development of the campus may have their parking fees waived. All other visitors must either utilize metered zones or designated visitor spaces, purchase a daily parking permit, or be sponsored by a campus department or tenant and utilize a guest parking permit.

### **SPEED LIMITS**

- The maximum speed limit is 20 mph on campus unless otherwise posted.
- The speed limit in the parking lots is 5 miles per hour.

### **BICYCLES AND SKATEBOARDS**

- The use of skateboards, motorized skateboards, roller skates, roller blades, coasters, or similar devices on campus is prohibited.
- It is prohibited to store or park bicycles in any public location other than a bicycle rack or locker.

### **VEHICLE STORAGE**

- No storage of vehicles is permitted on campus streets or parking lots.
- Abandoned vehicles will be towed away at vehicles owner's expense.
- No person shall use any motor vehicle in any area on campus for the purpose of human habitation or camping.

### **VEHICLE REPAIRS**

- No repair of private vehicles shall take place on campus with the exception of jump starting a dead battery or fixing a flat tire.

For further regulatory information, definitions, and procedures refer to Exhibit; Parking and Traffic Regulations Manual.  
(FA.81.001)

## **PRIVACY RIGHTS OF STUDENTS IN EDUCATION RECORDS**

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students' privacy in their records maintained by the campus. The statute and regulations govern access to certain student records maintained by the campus and the release of such records. The law provides that the campus must give students access to records directly related to the student, and must also provide opportunity for a hearing to challenge the records if the student claims they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade determined by the instructor. The law generally requires the institution to receive a student's written consent before releasing personally identifiable data about the student. The institution has adopted a set of policies and procedures governing implementation of the statute and the regulations. Copies of these policies and procedures may be obtained from Enrollment Services. Among the types of information included in the campus statement of policies and procedures are: (1) the types of student records maintained and the information they contain; (2) the official responsible for maintaining each type of record; (3) the location of access lists indicating persons requesting or receiving information from the record; (4) policies for reviewing and expunging records; (5) student access rights to their records; (6) the procedures for challenging the content of student records; (7) the cost to be charged for reproducing copies of records; and (8) the right of the student to file a complaint with the Department of Education. The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is: Family Policy Compliance Office, U.S. Department of Education, Washington, D.C. 20202-4605.

The campus is authorized under the Act to release "directory information" concerning students. "Directory information" may include the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors, and awards received, and the most recent previous educational agency or institution attended by the student. The above-designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying what information the student requests not be released. Written objections should be sent to the University Registrar.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These

persons have responsibilities in the campus's academic, administrative or service functions and have reason for accessing student records associated with their campus or other related academic responsibilities. Student records may also be disclosed to other persons or organizations under certain conditions (e.g., as part of the accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

### SERVICE-LEARNING POLICY

The following policies will be adhered to at California State University Channel Islands for all courses designated as Service Learning-Courses, Service-Learning Internships or courses with Service Learning components (hereafter collectively referred to as "Service-Learning Courses").

1. Definition: \*Service learning is a teaching and learning approach that integrates community service with academic study to enrich learning, teach civic responsibility, and strengthen communities, while engaging students in reflection upon what was experienced, how the community was benefited, and what was learned.  
*\*Adapted from the National Commission on Service Learning Definition.*
2. All Service Learning Courses must:
  - a. Serve a genuine community need.
  - b. Integrate course learning and teaching objectives with the service-learning activities.
  - c. Provide activities to engage students in reflection about the service experience and the achievement of learning outcomes.
  - d. Generate for each student, before placement, a Student Learning Plan, signed by the student, faculty instructor and authorized Community Organization ("CO") representative, that identifies course goals and risks.
  - e. Complete feedback forms on the value and effectiveness of the service-learning experience from the perspective of the student, faculty instructor and CO.
  - f. Provide a description of the service-learning component of the class in the syllabus, stating whether service learning is a required component or not and what percentage of the course grade the service learning component comprises.
3. Service-Learning Agreement: A signed Service-Learning Agreement between California State University Channel Islands and the CO must be on file before any students are placed at the CO. (SP03-16)

<sup>1</sup>Note that feedback forms related to the service learning experience are explicitly distinct from and not related to the Student Evaluations of Teaching Effectiveness.

### SEXUAL HARASSMENT FOR STUDENTS, PROHIBITION OF Accountability

This policy is administered through the Judicial Affairs Officer. Questions, concerns, suggestions, or complaints should be directed to Judicial Affairs. The Judicial Affairs Officer is responsible for assisting students regarding alleged sexual harassment and resolving situations in which sexual harassment occurs or is perceived as occurring; educating CSU Channel Islands students regarding the issue of sexual harassment and developing strategies for its elimination; and conducting investigations and responding to allegations of sexual harassment made against students of CSU Channel Islands. These responses may include an appropriate action to remedy the complainant's loss, if any.

#### Applicability

This policy applies to all students including student applicants as it relates to all University programs and services. Employees should refer to the California State University System-wide Policy.

#### Text

California State University Channel Islands will not tolerate sexually harassing conduct within its community and will take all reasonable steps to prevent and eliminate sexual harassment. Sexual Harassment is conduct subject to disciplinary action, including expulsion. Sexual harassment may also result in legal action against the individual and university. Sexual harassment includes but is not limited to:

- Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature;
- Conduct of a sexual nature that is unwelcome and contributes to a learning environment that is hostile, intimidating, offensive, or adverse to persons;
- Conditioning an academic act, decision, evaluation, or recommendation on the submission to or tolerance of any act of a sexual nature.

In determining whether conduct constitutes sexual harassment, all of the circumstances surrounding the conduct are considered.

The prohibition against sexual harassment applies to all University related activities, whether on or off campus.

CSU Channel Islands will not tolerate any retaliatory action or other reprisals against those persons who: (a) oppose practices prohibited by this policy; (b) file complaints of sexual harassment; or (c) assist with or participate in a sexual harassment investigation, proceeding, or hearing conducted by CSU Channel Islands or any local, state, or federal agency. Individuals are encouraged to report any conduct that might constitute sexual harassment to any Student Affairs Administrator or to Human Resources Programs.

*\* The parameters of 'sexual harassment' are defined by State and Federal statutes and Court decisions. While the policy set forth above describes actions which fall generally within the scope of 'sexual harassment,' all CSU students are required to conduct themselves in a manner that promotes congeniality within our community and avoids harassment as defined by State and Federal law. (FA.31.008)*

## SMOKING ON CAMPUS

To enable California State University Channel Islands to fulfill its role and responsibility to provide a safe and healthy environment for faculty, staff, and students, it is essential to eliminate exposure to the toxic substances produced by tobacco smoke. Pursuant to the CSU Systemwide Policy Statement Regarding Smoking on University Premises (Executive Order 599) smoking is prohibited in all California State University Channel Islands work locations and buildings, including but not limited to meeting rooms, conference facilities, classrooms and student designated buildings such as housing. Designated smoking areas are those areas that exceed 50 feet beyond any inhabited structure on the campus.

For a full description, view Executive Order 599.

## SOCIAL SECURITY NUMBER, USES OF

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The University uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service requires the University to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

## STATE UNIVERSITY GRANT AWARDING Accountability

Financial Aid office

### Applicability

All registered students at CSUCI

### Text

State University Grant funds are awarded in accordance with the system- wide policy statement issued on March 8, 2001, to CSU Presidents from Executive Vice Chancellor, David Spence.

The March 8, 2001 document set system-wide eligibility requirements, annual limits and award priority groups. The following summary is a summary of that policy statement.

## ELIGIBILITY FOR AWARDS

- Be admitted or enrolled at a CSU campus
- Be classified as a California resident for fee purposes
- Pay the State University fee (excludes students in self support programs)
- Demonstrate financial need
- Not be in default on a student loan
- Not owe a repayment on a student grant
- Be making satisfactory academic progress
- Have an expected family contribution not exceeding fifty percent of the campus standard off-campus budget.

## ANNUAL LIMITS

- Academic year award limits are \$3600 for full time students and \$2400 for less than full time enrollment.
- Summer award limits are \$1800 for students enrolled in 12 units and \$1200 for student enrolled in less than 12 units.
- Twelve month limits for students enrolled in both academic year and summer are \$4800 for full time enrollment and \$3200 for less than full time enrollment.

## SYSTEM-WIDE PRIORITY GROUPS

- Have an expected family contribution of \$800 or less
- Be enrolled on at least a half-time basis in a degree or credential program
- File a FAFSA by the campus designated priority date
- Have not received a Cal Grant or a waiver of the State University fee

California State University Channel Islands is in compliance with this policy. The Financial Aid office awards the State University grant according to the following guidelines:

- a State University Grant is awarded up to the full amount of fees minus any fee based Cal Grant awards or waivers. Additional amounts may be awarded up to the maximums established by the Chancellor on a case-by-case basis;
- a State University grant is awarded only to students accepted in degree or credential programs. Post baccalaureate unclassified students are not eligible for financial aid;
- priority is given to on-time applicants with an expected family contribution of \$800 or less and no award is made to students whose expected family contribution exceeds \$4000; and
- this procedure is subject to change as the system-wide policy is amended or as allocations limit the ability of the Financial Aid Office to completely fund eligible students.

(SA.10.002)



## STUDENT CLUBS AND ORGANIZATIONS, ELIGIBILITY

### Accountability

Dean of Student Life

### Applicability

All enrolled students at California State University Channel Islands

### Definitions

Club/Organization is defined as a group of students that share a common interest or characteristic and meet regularly for the purposes of exchanging information or planning activities.

GPA is defined as grade point average.

Club/Organization officer is defined as an elected position, generally a president, vice president, secretary treasurer and/or parliamentarian.

Club/Organization member is defined as a student in a general membership role without a specific title or job function.

### Text

Eligibility Requirements will be reviewed each semester. Minimum eligibility requirements to be a member of a club or organization at CSUCI:

- Be in good academic and disciplinary standing (not on academic or disciplinary probation)
- Be free of any holds on University records

Eligibility Requirements will be reviewed each semester. Minimum eligibility requirements to be an officer of a club or organization at CSUCI:

- Have an overall CSUCI GPA of at least 2.5 (Undergraduates)
- Have an overall CSUCI GPA of at least 3.0 (Post Baccalaureate)
- Have an overall Transfer GPA of at least 2.5 (Transfers)
- Be in good academic and disciplinary standing (not on academic or disciplinary probation)
- Be free of any holds on University records

Failure to meet the above requirements will result in the student member's removal from the Club/Organization's roster prior to the start of the next semester.

First time freshmen students without a CSUCI GPA can not serve as officers, but may participate as general members their first semester. However, upon completion of their first semester they must follow the eligibility requirements outlined for general membership. Clubs/Organizations may impose more restrictive requirements in their constitution(s) or bylaws. (SA.21.001)

## STUDENT CONDUCT

### Standards for Student Conduct

The University is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community must choose behaviors that contribute toward this end. Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences.

#### 1. Student Responsibilities

Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

#### 2. Unacceptable Student Behaviors

The following behavior is subject to disciplinary sanctions:

##### a. Dishonesty, including:

- (1) Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
- (2) Furnishing false information to a University official, faculty member, or campus office.
- (3) Forgery, alteration, or misuse of a University document, key, or identification instrument.
- (4) Misrepresenting oneself to be an authorized agent of the University or one of its auxiliaries.

##### b. Unauthorized entry into, presence in, use of, or misuse of University property.

##### c. Willful, material and substantial disruption or obstruction of a University-related activity, or any on-campus activity.

##### d. Participating in an activity that substantially and materially disrupts the normal operations of the University, or infringes on the rights of members of the University community.

##### e. Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus University related activity.

##### f. Disorderly, lewd, indecent, or obscene behavior at a University related activity, or directed toward a member of the University community.

##### g. Conduct that threatens or endangers the health or safety of any person within or related to the University community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.

##### h. Hazing, or conspiracy to haze, as defined in Education Code Sections 32050 and 32051: "Hazing" includes any method of initiation or pre-initiation into a student organization, or any pastime or amusement engaged in with respect to such an organization which causes, or is likely to cause, bodily danger, physical harm, or personal degradation or disgrace resulting in physical or

mental harm, to any student or other person attending any school, community college, college, university or other educational institution in this state; but the term “hazing” does not include customary athletic events or other similar contests or competitions.

A group of students acting together may be considered a ‘student organization’ for purposes of this section whether or not they are officially recognized. Neither the express or implied consent of a victim of hazing, nor the lack of active participation while hazing is going on is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.

- i. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and University regulations) or the misuse of legal pharmaceutical drugs.
- j. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and University regulations), or public intoxication while on campus or at a University related activity.
- k. Theft of property or services from the University community, or misappropriation of University resources.
- l. Unauthorized destruction, or damage to University property or other property in the University community.
- m. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a University related activity.
- n. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
- o. Misuse of computer facilities or resources, including:
  - (1) Unauthorized entry into a file, for any purpose.
  - (2) Unauthorized transfer of a file.
  - (3) Use of another’s identification or password.
  - (4) Use of computing facilities, campus network, or other resources to interfere with the work of another member of the University Community.
  - (5) Use of computing facilities and resources to send obscene or intimidating and abusive messages.
  - (6) Use of computing facilities and resources to interfere with normal University operations.
  - (7) Use of computing facilities and resources in violation of copyright laws.
  - (8) Violation of a campus computer use policy.
- p. Violation of any published University policy, rule, regulation or presidential order.
- q. Failure to comply with directions of, or interference with, any University official or

any public safety officer while acting in the performance of his/her duties.

- r. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the University community, to property within the University community or poses a significant threat of disruption or interference with University operations.
  - s. Violation of the Student Conduct Procedures, including:
    - (1) Falsification, distortion, or misrepresentation of information related to a student discipline matter.
    - (2) Disruption or interference with the orderly progress of a student discipline proceeding.
    - (3) Initiation of a student discipline proceeding in bad faith.
    - (4) Attempting to discourage another from participating in the student discipline matter.
    - (5) Attempting to influence the impartiality of any participant in a student discipline matter.
    - (6) Verbal or physical harassment or intimidation of any participant in a student discipline matter.
    - (7) Failure to comply with the sanction(s) imposed under a student discipline proceeding.
  - t. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.
3. Application of this Code  
Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the University is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.
4. Procedures for Enforcing this Code  
The Chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the University imposes any sanction for a violation of the Student Conduct Code.

### DISPOSITION OF FEES: CAMPUS EMERGENCY; INTERIM SUSPENSION

The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he

or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

## TOBACCO SALES AND SPONSORSHIPS ON CAMPUS

### Accountability

Vice President of Finance and Administration, Vice President of Advancement, Director of Communications and Marketing.

### Applicability

Applies to all University events held on campus and all advertising and sales in the campus bookstore and campus food services. Independent vendors, other than the campus bookstore, who lease space in the Town Center complex are excluded from this policy.

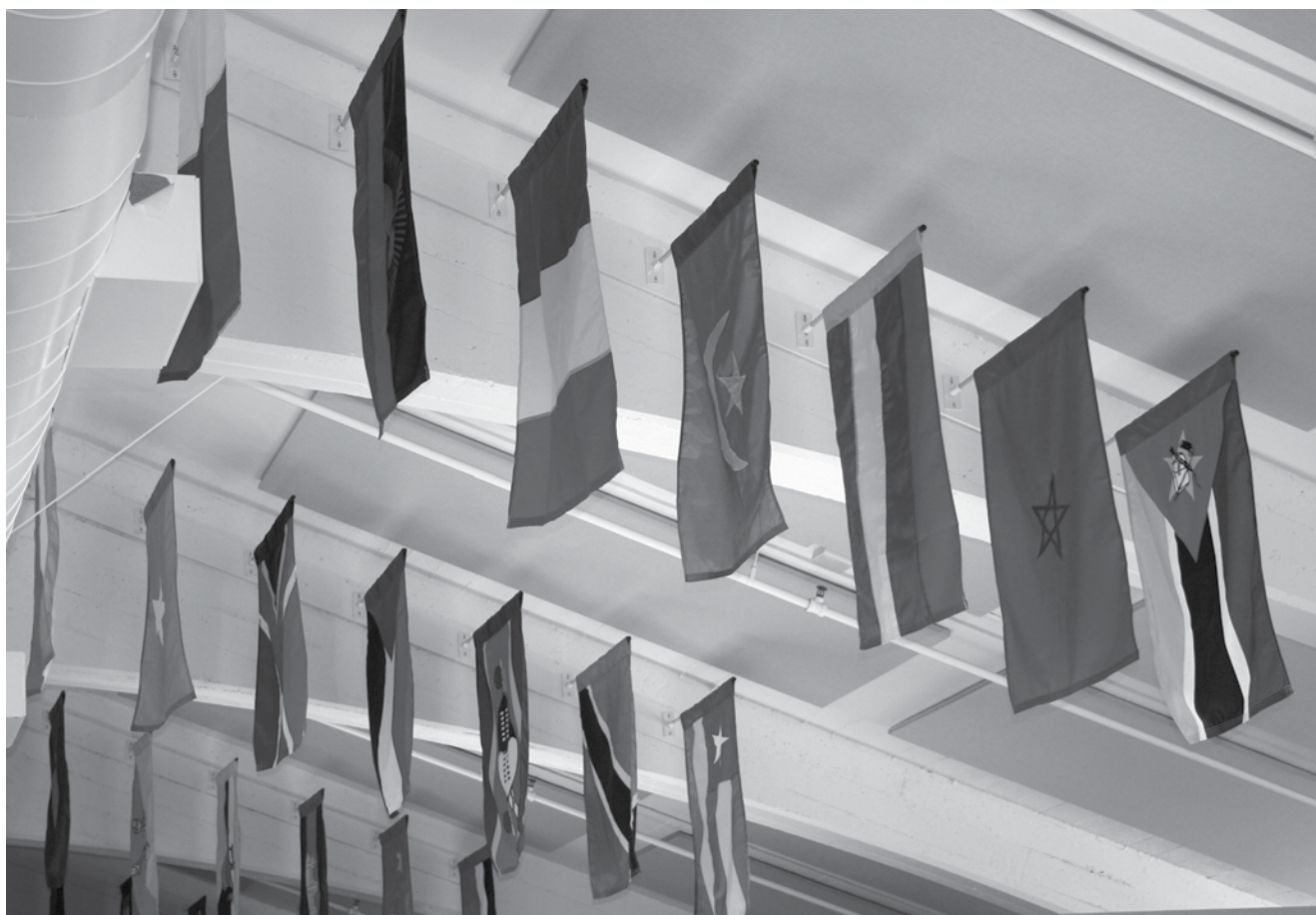
### Text

It is the policy of California State University Channel Islands to provide a healthful environment for all who visit, work and live on the campus and, further, to encourage a healthy lifestyle for the visitors and residents of the University and University Glen.

The University prohibits the sale of all tobacco products on campus. This prohibition includes the areas of The Cove campus bookstore and the Island's Café. The University encourages all other lessees and auxiliary groups to abstain from tobacco sales.

Further, the campus will not advertise tobacco or accept sponsorship for campus events or activities from tobacco companies.

(CM.02.001)







# Academic Affairs

CSUC





CSU

## **DIVISION OF ACADEMIC AFFAIRS**

### **PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS**

#### **Location**

Bell Tower Building  
West Wing, 2nd floor, Room 2188  
(805) 437-8441

The Provost and Vice President of Academic Affairs is charged with the overall administration of all academic units in the context of the University as a whole. The Provost provides direction regarding accreditation, faculty selection, evaluation, and performance; is responsible for analysis of the division's academic programs, policies, and procedures; and directs studies on major operational concerns. The Provost consults with the Academic Senate and University committees in order to maintain institutional focus on the campus mission and to enhance student learning. Among the academic offices reporting to the Provost are the Dean of the Faculty, the Dean of the University Library, the Dean of Extended Education, Faculty Affairs, Research and Sponsored Programs, Institutional Assessment, Academic Resources, Academic Programs and Planning, and Institutional Research.

### **DEAN OF THE FACULTY**

#### **Location**

Bell Tower Building  
West Wing, 1st floor, Room 1164  
(805) 437-8967

The office of the Dean of the Faculty provides academic direction and support for the University faculty and all academic programs, meeting regularly with the program chairs and faculty to discuss program implementation and planning, student enrollment, and academic support.

Working within Academic Affairs, the office helps identify priorities in instruction and planning for undergraduate and graduate programs. The Dean of Faculty is responsible for implementing student academic policies, including academic eligibility, appeals, matriculation and graduation, and provides direction in developing the fall and spring schedules of classes.

The Dean of the Faculty provides overall management of the instructional budget, including purchases, acquisitions, and travel, and is responsible for classroom and lab scheduling and utilization. The Dean also administers Instructionally Related Activities (IRA), funding, and cocurricular support for programs. Along with the Associate Dean, the Dean of the Faculty directs the operations of the Advising Center, the Credential Office, the University Writing and Math Centers, and oversees Academic Affairs events and student recognition.

## **PROGRAM AREAS**

### **Art**

Location: Bell Tower Building, Room 1521  
(805) 437-8570

### **Biology**

Location: Aliso Hall, Room 103  
(805) 437-2779

### **Martin V. Smith School of Business and Economics**

Location: Sage Hall, Room 2029  
(805) 437-8545

### **Chemistry**

Location: Aliso Hall, Room 103  
(805) 437-2779

### **Communication**

Location: Bell Tower Building, West Wing, Room 1199  
(805) 437-3272

### **Computer Science**

Location: Bell Tower Building, West Wing, Room 1131  
(805) 437-8815

### **Early Childhood Studies**

Location: Bell Tower Building, West Wing, Room 2199  
(805) 437-8594

### **Education**

Location: Bell Tower Building, West Wing, Room 2199  
(805) 437-8594

### **English: Literature and Writing**

Location: Bell Tower Building, West Wing, Room 1199  
(805) 437-3272

### **Environmental Science and Resource Management**

Location: Aliso Hall, Room 103  
(805) 437-2779

### **History**

Location: Sage Hall, Room 2031  
(805) 437-3139

### **Liberal Studies**

Location: Bell Tower Building, West Wing, Room 2199  
(805) 437-8594

### **Mathematics and Physics**

Location: Bell Tower Building, West Wing, Room 1131  
(805) 437-8815

### **Nursing**

Location: Aliso Hall, Room 103  
(805) 437-2779

### **Performing Arts**

Location: Bell Tower Building, West Wing, Room 1199  
(805) 437-3272

### **Political Science**

Location: Sage Hall, Room 2021  
(805) 437-3139

### **Psychology**

Location: Sage Hall, Room 2139  
(805) 437-8835

**Sociology**

Location: Sage Hall, Room 2021  
(805) 437-3139

**Spanish**

Location: Bell Tower Building, West Wing, Room 1199  
(805) 437-3272

**ACADEMIC PROGRAMS AND PLANNING****Location**

Sage Hall, Room 2053  
805 437-8540

The office of Academic Programs and Planning has responsibility for developing and updating the campus academic master plan and facilitating proposals for new degrees and programs. The office coordinates academic planning with enrollment management, assessment, and physical space planning, and coordinates relations with the Chancellor's Office on academic plans and program reviews.

With respect to academic programs, the office assists Academic Senate committees in their work on course and program development and modification. It oversees catalog production for the University and assists program chairs in their relations with community colleges and schools. It oversees the lower division transfer project (LDTP) and CSU efforts to facilitate student degree completion. It directs the CSU Pre-doctoral Program on campus.

**ADVISING CENTER****Location**

Bell Tower Building, 1st floor  
(805) 437-8571  
[www.csuci.edu/academics/advising](http://www.csuci.edu/academics/advising)

At CSU Channel Islands, the role of advising is shared with faculty advisors and professional advisors. Academic advising is a continuous process that supports students throughout their academic journey at the University. Students are ultimately responsible for their education planning and meeting all graduation requirements. Students need to be familiar with the University catalog policies and major and degree policies. To ensure academic success and to remain on course, students are encouraged to maintain regular contact with academic advisors.

Academic advisors in the Advising Center provide guidance with general education and graduation requirements, monitoring of the student's degree progress, undeclared major advising, clarification of academic probation policies, and other institutional policies and procedures. In addition to taking advantage of the center's professional academic advisors, students can develop a mentoring relationship with a faculty advisor upon declaration of a major. Faculty advisors assist students with clarification of major requirements and assist students with internship and career opportunities.

Students may call or stop by the Advising Center check-in counter to schedule an appointment with one of our professional academic advisors. Major faculty advisors are available on a walk-in basis or by appointment. For faculty advisor availability and office locations, please check the Advising Center lobby display case. Advisors are busiest during registration periods and the first few weeks of the semester. Therefore, students are encouraged to schedule advising sessions during non-peak times. The Advising Center hours are: Monday – Thursday, 8:30 a.m. – 6 p.m.; Friday, 8 a.m. – 5 p.m.

**CENTERS AND INSTITUTES****Center for Integrative Studies**

The mission of the Center for Integrative Studies is to serve as an organized source of information and support for integrative and interdisciplinary approaches to the creation, discovery, transmission and application of knowledge.

The goals of the Center for Integrative Studies are to:

- create the infrastructure for integrative and interdisciplinary teaching and learning;
- design and implement programs and curricula that promote integrative and interdisciplinary understanding for students in all fields of study;
- assist faculty in developing the integrative and interdisciplinary dimensions of their teaching, scholarship, and service activities;
- facilitate and develop academic and scholarly exchanges and partnerships for students and faculty; and
- coordinate activities that enhance campus awareness of interdisciplinary and integrative studies and their importance to the life of the campus and local community.

**Center for International Affairs****Location**

Sage Hall, Room 2038  
(805) 437-3170  
[www.csuci.edu/cia](http://www.csuci.edu/cia)

The mission of the Center for International Affairs is to internationalize the CSUCI educational experience.

The Center for International Affairs supports efforts to internationalize the curriculum, affords students the opportunity to study abroad, supports international faculty collaboration, and fosters links with higher education institutions around the world.

The objectives of the Center are to:

- design and implement policies and programs that promote cross-cultural and global understanding in all fields of study;
- assist faculty in developing the international dimension of their teaching, scholarship, and service activities;
- facilitate and develop academic and scholarly international exchanges and partnerships for students and faculty;

- diversify the student body to include outstanding students who represent a broad range of geographic, linguistic, and cultural backgrounds; and
- coordinate all activities that enhance campus global awareness and augment the international life of the campus and local community.

### **Center for Multicultural Learning and Engagement**

The mission of the Center for Multicultural Learning and Engagement (CMLE) is to create and sustain a campus climate in and out of the classroom that values and promotes all forms of diversity. It challenges students, staff, and faculty to commit to diversity as a source of renewal and vitality that empowers them to change the culture and the world through civic action.

The Center for Multicultural Learning and Engagement promotes working to end all forms of oppression and toward a just society so that all people can exist with equality and respect.

The objectives of the Center for Multicultural Learning and Engagement are to:

- promote and support efforts to incorporate multicultural perspectives across the curriculum;
- act as a resource for multicultural scholarship and pedagogy for faculty, students and staff/administrators;
- articulate the nature of multiculturalism;
- document its importance for CSUCI;
- maintain a communication network for the exchange of scholarly and pedagogical information on multicultural study among faculty and administrators in undergraduate and graduate education;
- enhance research and teaching in multicultural studies by promoting the development of multicultural theory, methodology, and curricular design;
- provide facilities and support for multicultural courses;
- encourage students and faculty to engage in multicultural study including those that focus on how diverse communities build sustaining cultures that model alternatives to prejudice and how individuals create and maintain authority and integrity in atmospheres of discrimination;
- become a broad-based professional home for reflective multiculturalists; and
- support, promote, and maintain the Multicultural, Women's and Gender Student Center (MWGSC) and thereby support students' efforts to promote justice on our campus, in society at large, and in their personal lives..

### **Hank Lacayo Community and Labor Studies Institute**

The Community and Labor Studies Institute serves as a resource to students and campus community and those interested in the study of community and labor issues. Through interdisciplinary learning and research, the institute seeks solutions to community and workforce problems, emphasizing the Central Coast

region and its relationship with the global economy. By affording students service learning opportunities, the institute serves as a resource to government and public agencies, community-based organizations and labor unions in the region along with a wide spectrum of stakeholders including business and labor and non-profit organizations as well as, faculty and staff of California State University Channel Islands

The Center integrates student interdisciplinary skills and service learning with applied studies and research and with the community, labor and the non-profit sector. The Center:

- Serves as clearinghouse for information
- Offers consultation and training
- Conducts public policy, collaborative and applied research studies
- Convenes the public on issues of interest to communities

### **CREDENTIAL OFFICE**

#### **Location**

Bell Tower Building, Room 1595

(805) 437-8953

<http://education.csuci.edu>

The Credential Office is responsible for facilitating admission to all credential programs. Our staff serves as a campus resource to provide advice, assistance, and current information to students, members of the faculty, and other interested parties on matters regarding the State and the campus credential requirements. Credential staff members serve as a liaison between the campus and the California Commission on Teacher Credentialing, by recommending the issuance of teaching credentials. Advising services are available with the goal of supporting individuals interested or engaged in the teaching profession. Information meetings are conducted to provide admissions assistance and an overview of the teaching field. Resource materials, including admissions and credential materials, test bulletins, and test preparation referrals are provided.

### **EXTENDED EDUCATION**

#### **Location**

Sage Hall, Room 2109

(805) 437-2748

[www.csuci.edu/exed](http://www.csuci.edu/exed)

The office of Extended Education is designed to respond to important needs in the community for continuing access to higher education, and to provide overall support of the University's commitment to lifelong learning. It assists individuals seeking to enhance their lives through personal and cultural enrichment. Extended Education serves professionals throughout their career life cycles with job skills training, career upgrades, professional certifications, and accelerated courses of study. It offers special session degree programs, credit and non-credit courses, and certificate programs. Additionally, the office custom designs courses for various groups and businesses in Ventura County.



It utilizes a mix of evening and weekend schedules, distance-learning technologies, and variable formats.

## OSHER

### (Osher Lifelong Learning Institute)

The Osher Lifelong Learning Institute (OLLI) was created in 2004 to offer University-quality courses to seniors over 50 years of age seeking intellectual stimulation and enhancement. Courses do not carry college credit, and thus do not entail tests or grading. Ten courses are offered during each of the eight-week fall, winter, and spring semesters. Courses meet on weekday mornings or afternoons on the CSUCI campus. For a nominal fee, seniors may join the Institute for a single semester, or for the entire year. Membership entitles seniors to unlimited course enrollment, attendance at the regular noontime speaker series, participation in travel programs, and library privileges. Members participate in suggesting courses and speakers.

Courses are taught by CSUCI faculty, retired College and University faculty, and persons with special expertise. Each semester a balanced and varied program of courses is offered in the arts, music, social and natural sciences, English and literature, and history.

Enrollment for the fall semester (September/October) takes place in July and August. Enrollment for winter (January/February) and spring (April/May) takes place in November and December (winter) and March (spring). To enroll, call (805) 437-2748, email [osher.institute@csuci.edu](mailto:osher.institute@csuci.edu), or see the current course descriptions at [www.csuci.edu/exed/osher.html](http://www.csuci.edu/exed/osher.html).

### Open University

Open University provides an opportunity for those people who are not currently admitted to CSU Channel Islands to enroll in courses offered by the regular University.

- **Begin Working Towards a Degree:** Have you missed the deadline for admission? Do you want to improve your grade point average to better qualify for admittance?
- **Sample a Field or Possible Career:** Are you thinking of a career change? Do you want to examine a new field before enrolling in a degree program?
- **Professional and Personal Enrichment:** Do you want to update your professional training in specific fields? Interested in learning more about a particular subject for your own personal growth? CSU Channel Islands' Open University program allows enrollment in regular University credit classes on a "space available" basis, subject to the approval of the instructor and Academic Affairs. Check the CSU Channel Islands Schedule of Classes for class meeting times and location. The registration process is easy. Admission to the University is not required, and the same fees apply to everyone.

Students may apply up to 24 units taken through Open University toward a baccalaureate degree. Grades

received through this program will be factored into your grade point average at CSU Channel Islands. Units earned through Open University may not be applied toward the 30 unit residency requirement.

### Limitations

We cannot guarantee a space nor assure that you will be permitted to enroll in any class. Instructors are not required to accept Open University students even if space is available.

### Open University is NOT Available to:

- Matriculated students (those admitted for the current semester)
- Non-matriculated international students with a score of less than 450 on the TOEFL examination or its equivalent
- International students on F-1 or J-1 visas without proper authorization.

### Four Easy Registration Steps

(for Open University Only)

1. Check the CSU Channel Islands Schedule of Classes for the days and times of the courses you need.
2. You must use an Open University registration form to enroll in courses through this program (available by calling (805) 437-2748).
3. Attend the first class meeting and get instructor and Academic Affairs signatures. Registration is done on a "space available basis." Note: some departments may have additional requirements for certain classes. Attend the first class to obtain the instructor's signature. Instructors are not permitted to sign forms before the first day of class when they can determine space availability. Forms will not be accepted by Extended Education before the first day of class.
4. Return the completed form to Extended Education by the end of the second week of classes

### Open University Registration Deadlines

Regular Registration: 1st two weeks of session

Late Registration Dates (late fee applies): 3rd week

Drop (with 65% refund, instructor signature required):

End of 2nd week

Late Withdrawal (no refund) - Instructor Signature

Required: end of 3rd week

To confirm the schedule and to receive an enrollment form, call (805) 437-2748.

### FACULTY AFFAIRS

#### Location

Bell Tower Building

West Wing, 2nd Floor

(805) 437-8455

The Office of Faculty Affairs serves and provides for the human resources needs of the University's academic personnel. This includes implementation of policies and programs mandated by the Collective Bargaining Agreement for Unit 3 Faculty and Unit 11 Academic

Student Employees. Faculty Affairs provides support for faculty recruitment, appointment, reappointment, evaluation, retention, tenure and promotion, and other related faculty personnel functions and faculty orientation. Faculty Affairs acts as the custodian for the official faculty personnel files.

## **ACADEMIC RESOURCES**

### **Location**

Bell Tower Building  
West Wing, 2nd Floor  
(805) 437-8418

The office of Academic Resources manages the budget and expenditure processes for the operating year, and guides financial operations and reporting for the division. Academic Resources also manages the process for planning and developing the budget request for the upcoming fiscal year, provides program planning data, and communicates with support staff, chairs, and unit administrators about expenditure processes, budget processes, and use of financial systems.

## **INSTITUTIONAL RESEARCH**

### **Location**

Sage Hall, 2nd floor  
(805) 437-8979  
[www.csuci.edu/about/ir](http://www.csuci.edu/about/ir)

Institutional Research (IR) is responsible for official university reporting to the CSU Chancellor's Office and other external entities. IR supports university decision-making by compiling, analyzing, and reporting findings from institutional data. IR supports the WASC accreditation process, as well as the University's efforts in assessment, accountability, and institutional effectiveness. IR also supports academic planning and enrollment management. Studies, reports, and findings are posted to the IR website.

## **OFFICE OF RESEARCH AND SPONSORED PROGRAMS**

### **Location**

Lindero Hall  
(805) 437-8495

The Office of Research and Sponsored Programs (ORSP) is responsible for the preparation and submission of University grants and contracts and supports the Institutional Review Board (IRB). ORSP offers grant seeking, grant writing, IRB basics and principal investigator certification trainings every semester. The office oversees a number of special projects such as the Child Abuse Training and Technical Assistance Center, Technology Enhanced Learning for great Careers and Higher achievement (T.E.C.H.) project.

## **OFFICE OF SERVICE LEARNING AND CIVIC ENGAGEMENT**

### **Location**

Lindero Hall, Room 3218  
(805) 437-8851

The Office of Service Learning and Civic Engagement serves as a resource and support for faculty, community partners and students engaged in service learning. The office supports the University's mission by promoting civic engagement and service-learning initiatives on campus and in the community.

## **UNIVERSITY LIBRARY**

(805) 437-8561  
[www.csuci.edu/library](http://www.csuci.edu/library)

The University Library provides an atmosphere and space conducive to study and inquiry for both individuals and small groups. Students have access to a knowledgeable and service-oriented staff and a newly developed print collection of 75,000 volumes, along with numerous databases, electronic journals, and digital images available 24/7. With all these resources, the Library enhances student learning through one-on-one assistance with research, the offering of an active instructional program, providing a space to display student art and outstanding projects, and providing meaningful and thought provoking exhibits.

The University Library has been designated a Digital Teaching Library incorporating up-to-date technologies and instructional support. There is wireless Internet connection throughout the Library and a complete instructional space with 21 wireless computers. The library has 30 wired PC and 5 Macintosh computers as well as other specialized workstations that provide students with access to software, scanning, editing, and other capabilities needed to complete course projects. The library checks out a number of technologies for course projects, including digital cameras, digital video cameras, digital audio recorders, iPods, and PC and Macintosh laptops for long-term and short-term use. The Library's staff provides one-on-one instruction and support for student use of multimedia applications such as web authoring, digital photography, and digital video editing.

## **The Robert J. Lagomarsino Collection**

Located in the department of archives and special collections in the University Library, the Lagomarsino collection contains papers, photographs, furniture, and memorabilia relating to Mr. Lagomarsino's years of political service as a California Senate member from 1961-1974 and as a United States Congressman from 1974-1992.

## **UNIVERSITY MATH AND WRITING CENTER**

At the Math Tutoring Lab and the University Writing Center, the process is collaborative. Tutors work with students to encourage effective, independent learning and to further knowledge and understanding during their education at CSU Channel Islands.

## **University Math Center**

### **Location**

Bell Tower Building, Room 1512  
(805) 437-8409

At the University Math Center, students can receive help in courses dealing with basic mathematics, geometry, statistics, calculus, as well as higher mathematics. Math Tutors help students obtain a better understanding of assignments. Our tutors enjoy working with groups and often prefer walk-ins, but appointments are welcome. Check the display in front of Room 1512 in the Bell Tower, or in front of the Advising Center (Room 1552) for updates and information.

### University Writing Center Location

Bell Tower Building, Room 1512  
(805) 437-8409

The University Writing Center is open to talk with any student about writing -- whether it's a term paper, lab report, or employment letter. Our Writing Consultants are available to help with editing, organizing a paper, and improving writing skills. They can assist students with any step in the writing process, from brainstorming to creating a final draft. Appointments are at least 30 minutes, and can be as long as an hour. For more information, visit the Writing Center web site at <http://www.csuci.edu/writingcenter/>.

### University Math and Writing Center Hours

Monday - Thursday 9 a.m. - 7p.m.

Friday 9 a.m. - 2 p.m.

Check display case in front of Room 1512 in the Bell Tower for specific hours to make appointments. Subject to change. (Note - closed during summer)  
Information/Appointment Line – (805) 437-8409

### VIRGIL H. ADAMS III Associate Professor of Psychology

Ph.D., Psychology, 1994, University of California Santa Cruz  
M.S., Psychology, University of California Santa Cruz  
B.A., Psychology, California State University, Fresno



**Areas of Specialization:** Social Psychology, Intergroup Relations, Hope, Quality of life, African American Families

### MARY ADLER Assistant Professor of English

Ph.D., Curriculum and Instruction, 2002, University at Albany, State University of New York  
M.A., English/Creative Writing, University at Albany, State University of New York  
B.A., History, University of California at Los Angeles



**Areas of Specialization:** English education (literature instruction, classroom discourse studies, writing development & processes), second language acquisition

### SIMONE ALOISIO Assistant Professor of Chemistry

Ph.D., Analytical Chemistry, 2000, Purdue University  
B.A., Chemistry, Bradley University



**Areas of Specialization:** Atmospheric chemistry, theoretical chemistry, infrared spectroscopy.

## FACULTY BIOGRAPHIES

### WILLIAM HAMPTON ADAMS

#### Associate Professor of Anthropology

Ph.D., Anthropology, 1976, Washington State University  
M.A., Anthropology, Washington State University  
A.B., Anthropology, Indiana University



**Areas of Specialization:** Historical archaeology; oral history; ethno-history; ethno-archaeology; human ecology; environmental history; cultural heritage management; cultural preservation; applied anthropology; African-American history; USA; Oceania; Australia.

### SEAN ANDERSON Assistant Professor of Environmental Science and Resource Management

Ph.D., Population Biology, 2003, University of California Los Angeles  
B.A., Environmental Science, University of California Santa Barbara  
B.A., Ecology and Evolution, University of California Santa Barbara



**Areas of Specialization:** Restoration Ecology, Conservation Biology, Marine Biology, Wetland Ecology



**HARLEY BAKER**  
Associate Professor  
of Psychology; Chair,  
Psychology

Ed.D., Organization and Leadership, 1999, University of San Francisco

M.S., Developmental Psychology, University of California Santa Cruz

M.A., Psychology, San Jose State University

B.A., Psychology, California State University Stanislaus

**Areas of Specialization:** Psychometrics, adolescence, attachment theory, psychoanalytic thought, psychology of religion.



**ANDRZEJ (A.J.) BIESZCZAD**  
Assistant Professor of  
Computer Science

Ph.D., Electrical Engineering, 1996, Carleton University  
M.S., Computer Science, 1993, Carleton University  
M.S., Informatics, 1981, Jagiellonian University, Krakow, Poland

**Areas of Specialization:** Cognitive Informatics, Artificial Intelligence, Intelligent Agents, Network and Service Management, Internet Programming, Game Programming



**JULIA BALÉN**  
Assistant Professor of  
English

Ph.D., Comparative Cultural and Literary Studies, 1993, University of Arizona

M.A., English Literature, University of Arizona

B.A., English/Creative Writing, University of Arizona

**Areas of Specialization:** Twentieth century world literature, feminist studies, activism and social change, sexuality and gender studies



**ROBERT BLEICHER**  
Associate Professor of  
Education-Science

Ph.D., Educational Psychology, 1993, University of California Santa Barbara

M.A., Educational Psychology, University of California Santa Barbara

B.A. (Honors), Chemistry, University of California Davis

**Areas of Specialization:** Classroom Discourse, Self-Efficacy, Science Education, Service Learning



**TERRY L. BALLMAN**  
Professor of Spanish;  
Chair, Spanish

Ph.D., Spanish Linguistics, 1985, University of Texas

M.A., Spanish, California State University Long Beach

B.A., Spanish, California State University Long Beach

**Areas of Specialization:** Spanish Language Acquisition, Second/Foreign Language Teaching



**MERILYN BUCHANAN**  
Assistant Professor of  
Education

Ph.D., Education: Study of Schooling, 1991, University of California Los Angeles

M.Ed., Education: Curriculum Design and Evaluation, Liverpool University, UK.

B.Ed., Education: Environmental Science, Liverpool Institute of Higher Education, U.K.

Cert. ED., Primary Education: Environmental Studies, Notre Dame College, U.K.

**Area of Specialization:** K-6th grade mathematics education, teacher's work experiences, organization and function of professional development schools.



**FRANK P. BARAJAS**  
Assistant Professor of History

Ph.D., History, 2001, Claremont Graduate University

M.A., B.A., History, California State University, Fresno

**Areas of Specialization:** California History, Chicano Studies, Twentieth Century United States History



**GEOFFREY W. BUHL**  
Assistant Professor of  
Mathematics

Ph.D., Mathematics, 2003, University of California Santa Cruz

B.A., Mathematics, University of Michigan

**Area of Specialization:** Mathematical structures in string theory, Lie algebras.





**CATHERINE SCOTT BURRISS**  
**Assistant Professor of**  
**Performing Arts**

Ph.D., Performance Studies,  
 University of California  
 Berkeley

B.A., Theatre Arts, University of  
 California Santa Cruz



**Area of Specialization:**

Contemporary Theater and Performance Art, Early  
 Modern English and Italian Theater, Feminist and Queer  
 Studies, Mimetic Theory, Acting, Directing, Dramaturgy

**IRINA D. COSTACHE**  
**Professor of Art History**

Ph.D., Art History, 1993, Univer-  
 sity of California Los Angeles

M.A., Art History, University of  
 California Los Angeles

M.A., B.A., Art and Art  
 Conservation, Institute of Fine  
 Arts, Bucharest, Romania



**Areas of Specialization:** Art  
 History and Humanities

**RAINER F. BUSCHMANN**  
**Associate Professor of**  
**History**

Ph.D., History, 1999, University  
 of Hawai'i at Manoa

M.A., Anthropology, University  
 of Hawai'i at Manoa

B.A., Anthropology, University  
 of Illinois at  
 Urbana-Champaign



**Areas of Specialization:** World History, Pacific Islands  
 History, Modern European History, History of Oceans

**WILLIAM P. CORDEIRO**  
**Professor of Management;**  
**Director, Martin V. Smith**  
**School of Business &**  
**Economics**

Ph.D., Executive Management,  
 1986, Claremont Graduate  
 University

M.A., Management, Claremont  
 Graduate University

M.B.A., Finance, University of Southern California

B.S., Biology, University of San Francisco



**Areas of Specialization:** Strategic Planning; Professional  
 Ethics

**MANUEL G. CORREIA**  
**Assistant Professor of**  
**Education**

Ph.D., Language, Literacy and  
 Culture, 2004, University of  
 California, Berkeley

M.A., Elementary Education,  
 1997, California State  
 University, Stanislaus

B.A., English, 1993, California  
 State University, Stanislaus



**Areas of Specialization:** Primary Language Instruction,  
 Literacy Learning in Sociocultural Contexts, Second  
 Language Acquisition

**MARIA K. DENNEY**  
**Assistant Professor of**  
**Special Education**

Ph.D., Education, 2003, Universi-  
 ty of California Santa Barbara

M.A., Education, University of  
 California Santa Barbara

B.A., Spanish, University of  
 California Santa Barbara



**Areas of Specialization:** Special education, disability  
 and risk studies

**AMY L. DENTON**  
**Assistant Professor of**  
**Biology**

Ph.D., Botany, 1997,  
 University of Washington

B.A., Environmental Studies,  
 State University of New York  
 (SUNY) at Binghamton



**Areas of specialization:**  
 Molecular evolution of adaptation to extreme  
 environments in plants; comparative genomics; plant  
 molecular systematics and population genetics

**BEATRICE M. DE OCA**  
**Associate Professor of**  
**Psychology**

Ph.D., Psychology, 1997, Univer-  
 sity of California Los Angeles

B.A., Psychology, California State  
 University Los Angeles



**Areas of Specialization:**  
 Psychophysiology of emotion,  
 biological basis of emotion, animal defensive behaviors,  
 learning and memory

**GEOFF DOUGHERTY****Professor of Physics**

Ph.D., Biophysics, 1979,  
Keele University, England  
P.G.C.E., Physics and Education,  
Leeds University, England  
B.S., Physics,  
Manchester University, Eng-  
land



**Areas of Specialization:** Medical imaging, image analysis, pattern recognition, biophysics, instrumentation.

**JESSE ELLIOTT****Assistant Professor of Mathematics**

Ph.D., Mathematics, 2003, Uni-  
versity of California, Berkeley  
B.S., Mathematics, Massachusetts  
Institute of Technology



**Areas of Specialization:**  
commutative algebra and number  
theory

**SCOTT A. FRISCH****Associate Professor of Political Science; Chair, Political Science**

Ph.D., Political Science, 1997,  
Claremont Graduate Univer-  
sity  
M.A. Political Science/Interna-  
tional Relations, University of  
Pennsylvania  
M.G.A., Government Adminis-  
tration, University of Pennsylvania  
A.B., International Affairs,  
Lafayette College



**Areas of Specialization:** American Institutions  
(Congress, The Presidency), Public Policy, Public  
Budgeting

**MARIE E. FRANCOIS****Associate Professor of History; Co-Chair, History**

Ph.D., Latin American History,  
1998, University of Arizona  
M.A., World Comparative  
History, 1988, University of  
California Santa Cruz  
B.A., History and Latin American  
Studies, 1984, University of  
Virginia of Michigan



**Area of Specialization:** Mexican and Latin American  
history, 18th and 19th century; cultural history;  
economic history; material culture; history of gender  
systems

**MATTHEW FURMANSKI****Assistant Professor of Art**

M.F.A., Sculpture, 1995,  
Claremont Graduate University  
B.F.A., 1993, Chapman University

**Areas of Specialization:**

Sculpture, ceramics, digital media  
and new genres

**JORGE GARCIA****Assistant Professor of Mathematics**

Ph.D., Mathematics, 2002, Uni-  
versity of Wisconsin Madison  
M.S., Mathematics, University of  
Wisconsin-Madison  
M.S., Mathematics, Center for  
Research and Advanced  
Studies (CINVESTAV) at  
National Polytechnic Institute (IPN), Mexico  
B.A., Mathematics, National University of Mexico



**Areas of Specialization:** Large Deviations, Stochastic  
Integrals

**BLAKE GILLESPIE****Assistant Professor of Chemistry**

Ph.D., Chemistry, 1999, Univer-  
sity of Oregon, Eugene OR  
B.S., Chemistry, 1991,  
The Evergreen State College,  
Olympia WA



**Areas of Specialization:** Protein  
stability, dynamics, structure

**JEANNE M. GRIER****Associate Professor of Secondary Education**

Ph.D, Teaching and Teacher  
Education, 1998, University of  
Arizona  
M.Ed., Curriculum and Instruc-  
tion-Science Education, Uni-  
versity of Missouri-Columbia  
B.A. Interdisciplinary Studies-  
Biology, Chemistry, Art,  
University of Missouri-Columbia



**Areas of Specialization:** Secondary Science Teacher  
Education, Professional Development of Science  
Teachers, Secondary Methods, Science Content  
Knowledge and Curriculum Influences.

**ANDREA K. GROVE**  
**Associate Professor of**  
**Political Science**

Ph.D., Political Science, 1999, The Ohio State University  
 M.A., International Relations and Strategic Studies, 1993, Lancaster University, U.K.  
 B.A., Political Science, 1992, University of Georgia



**Area of Specialization:** International relations, foreign policy, leadership

**NIAN-SHENG HUANG**  
**Professor of History;**  
**Co-Chair, History**

Ph.D., History, 1990, Cornell University  
 M.A., History, Cornell University  
 M.A., History, Tufts University  
 B.A., History/Political Science, Teachers University of Inner Mongolia, P. R. China



**Areas of Specialization:** Early America

**IVONA GRZEGORCZYK**  
**Professor of Mathematics;**  
**Chair, Mathematics**

Ph.D., Mathematics, 1990, University of California Berkeley  
 M.S., Mathematics, University of Warsaw



**Areas of Specialization:**  
 Algebraic Geometry, Vector Bundles, Mathematics and Art, Mathematics Education.

**PHILIP HAMPTON**  
**Professor of Chemistry;**  
**Chair, Chemistry**

Ph.D., Organic Chemistry, 1989, Stanford University  
 B.A., Chemistry, St. Olaf College



**Areas of Specialization:**  
 Organic and inorganic synthesis, catalysis, mechanistic studies, organometallic chemistry, and polymer chemistry.

**TIINA ITKONEN**  
**Assistant Professor of**  
**Education**

Ph.D., Educational Leadership and Organizations (political science emphasis), University of California, Santa Barbara, 2004



M.S., Special Education, University of Oregon, 1989  
 B.Ed., Education, University of Oregon, 1987

**Areas of Specialization:** Education policy and policy analysis, politics of education

**KAREN A. JENSEN**  
**Associate Professor of**  
**Nursing; Director of Nursing**

Ph.D, Nursing, 1996, University of California Los Angeles  
 M.S.N, Nursing, 1982, University of California Los Angeles  
 B.S.N, Nursing, 1980, Marquette University



**Area of Specialization:** Gerontology, Alzheimer's Caregivers, Curriculum Development and Teaching in Nursing

**ELIZABETH HARTUNG**  
**Professor of Sociology;**  
**Chair, Sociology**

Ph.D., Sociology, 1985, University of Nebraska, Lincoln  
 M.A., Sociology, Kansas State University  
 B.A., Sociology, Kansas State University



**Areas of Specialization:** Stratification, Gender, Popular Culture

**ANTONIO F. JIMÉNEZ**  
**JIMÉNEZ**  
**Assistant Professor of**  
**Spanish**

Ph.D., Spanish Linguistics, 2003, Pennsylvania State University  
 B.A., Translation and Interpreting, University of Malaga, Spain



**Areas of Specialization:** Second language acquisition, language attrition, bilingualism, technology-enhanced language learning, corpus-linguistics, translation, and Sociocultural Theory.



**JOAN M. KARP**  
**Professor of Special Education; Chair, Education**  
 Ph.D., Special Education, 1982,  
 University of Connecticut  
 M.S., Mental Retardation,  
 Syracuse University  
 B.S., Elementary Education and  
 Special Education,  
 Rhode Island College



**Areas of Specialization:** Inclusion of preschool and primary grade students with disabilities in general education; Educators with disabilities

**KIMMY S. KEE-ROSE**  
**Associate Professor of Psychology**

Ph.D., Clinical Psychology, 1996,  
 Medical College of Pennsylvania  
 and Hahnemann  
 University, Philadelphia, PA  
 B.A., Psychology, 1989, The College of Wooster, Wooster, OH.



**Areas of Specialization:** Social Cognition; Motivation; Schizophrenia

**JACQUELYN KILPATRICK**  
**Professor of English; Chair, English**

Ph.D., Literature, 1996  
 University of California,  
 Santa Cruz  
 M.A., English, California State  
 University, Fresno  
 B.A., English, California State  
 University, Fresno



**Areas of Specialization:** British Literature, world literature, Native American literature, Renaissance drama, multicultural literature and film

**LIZ KING**  
**Assistant Professor of Art**  
 M.F.A., 1990, University of  
 California, Los Angeles  
 B.A., 1986, University of  
 California, Los Angeles



**Areas of Specialization:**  
 Computer Graphics, Web Design,  
 Flash Animation, and Interactive  
 Media

**KRISTEN B. LABONTE**  
**Assistant Professor,  
 Digital Resources, Library**  
 M.L.S., Library and Information  
 Science, 2004, Southern Connecticut State University  
 B.A., Geography, University of  
 California Santa Barbara



**Area of Specialization:** Science reference and instruction, digital resources, and Geographic Information Systems

**JILL M. LEAFSTEDT**  
**Assistant Professor of Special Education**

Ph.D., Education/Emphasis in  
 Special Education Disabilities  
 and Risk, 2002, University of  
 California, Santa Barbara  
 B.A., Psychology, University of  
 California Santa Barbara



**Areas of Specialization:** Learning Disabilities, Early Reading, Early Intervention, Bilingual Education/Special Education

**KATHRYN LEONARD**  
**Professor of Mathematics**

Ph.D.: Mathematics, 2004, Brown University  
 M.S.: Mathematics, Brown University  
 B.S.: Mathematics and English,  
 University of New Mexico



**Area of Specialization:**  
 mathematics behind computer vision, approximation in Banach spaces

**LUKE MATJAS**  
**Assistant Professor of Art**  
 M.F.A., Spatial Arts/Digital  
 Media/Critical Theory, 2002,  
 University of California, Santa  
 Barbara  
 B.A., Film and New Media,  
 University of California, San  
 Diego



**Area of Specialization:** Design, New Media, Digital Filmmaking, Visual Culture



**PRISCILLA Z. LIANG**  
Assistant Professor of Finance

Ph.D., Financial Economics, 2006, Claremont Graduate University  
M.B.A., Finance, California State Polytechnic University, Pomona  
B.S., Management, Beijing Normal University

**Area of Specialization:** Corporate Finance, International Finance, Behavioral and Emerging Market Finance



**BRADLEY JOHN MONSMA**  
Professor of English

Ph.D., English and American Literature, 1995, University of Southern California  
M.A., English and American Literature, 1991, University of Southern California  
B.A., English, Calvin College

**Areas of Specialization:** Environmental Literature, Multicultural Literature, Literary Nonfiction



**BOB MAYBERRY**  
Associate Professor of English

M.F.A., 1985, Theatre, Univ. of Iowa  
Ph.D., 1979, English, University of Rhode Island  
M.A., 1975, English, Univ. of Utah  
B.A., 1971, English, Univ. of Nevada

**Areas of Specialization:** Composition theory and pedagogy, playwriting, modern drama



**MICHELLE MOON**  
Assistant Professor of Psychology

Ph.D., Clinical Psychology, 2003, Loma Linda University  
B.A., Psychology, San Diego State University

**Area of Specialization:** Clinical Psychology, Child, Adolescent and Family Processes



**J. ANDREW MORRIS**  
Associate Professor of Management

Ph.D., Organizational Behavior and International Business, 1995, University of South Carolina  
M.B.A., Winthrop University  
B.S., Finance, Winthrop University

**Area of Specialization:** Emotional Labor, Leader Humility, Positive Organizational Scholarship



**ALEXANDER W. MCNEILL**  
Professor of Kinesiology

Ph.D., Exercise Physiology and Biomechanics, 1973, University of Oregon  
M.S., Exercise Science, 1967, University of Oregon  
B.S., Physical Education, 1965, University of Oregon

**Areas of Specialization:** Exercise Science, Foods and Nutrition, Human Development, Community Health Education, Consumer Economics and Mental Health Counseling



**NANCY MOZINGO**  
Associate Professor of Biology

Ph.D., Zoology, 1993, Arizona State University  
B.S., Zoology, Arizona State University

**Areas of Specialization:** Cellular and Developmental Biology



**TRUDY MILBURN**  
Associate Professor of Communication

Ph.D., Communication, 1998, University of Massachusetts, Amherst  
M.A., Speech Communication, 1992, Texas A&M University  
B.A., Rhetoric & Communication, 1989, University of California, Davis

**Area of Specialization:** Employment Law



**DENNIS D. MURAOKA**  
**Professor of Economics**

Ph.D., Economics, 1981,  
University of California Santa  
Barbara  
M.A., Economics, University of  
California Santa Barbara  
B.A., Economics and Mathemat-  
ics, University of California  
Santa Barbara



**Areas of Specialization:** Natural Resource and  
Environmental Economic

**PAUL A. RIVERA**  
**Assistant Professor of  
Economics**

Ph.D., Economics, 2002, Univer-  
sity of Southern California  
M.A., Economics, California  
State University Long Beach  
B.A., Economics, Texas A&M  
University



**Areas of Specialization:**  
Development economics, international migration, rural  
household economics, culture and economics.

**NITIKA PARMAR**  
**Assistant Professor of  
Biology**

Ph.D., Molecular Biology, 2000,  
University of California, Los  
Angeles  
M.Tech., Biochemical Engineer-  
ing and Biotechnology, 1993,  
Indian Institute of Technology  
(IIT), New Delhi, India  
M.S., Biotechnology, 1991, Pune University, India  
B.A./S., Biophysics Honors, 1989, Punjab University,  
India



**Area of Specialization:** Molecular Biology,  
Biotechnology

**JOAN K. PETERS**  
**Associate Professor of  
English**

Ph.D., Comparative Literature,  
1974, University of Chicago  
M.A., English, University of  
Chicago  
B.A., English, University of  
Chicago



**Areas of Specialization:** 17th Century English and  
European literature; Modern and Contemporary  
Fiction, Fiction Writing; Women's Studies

**JACK REILLY**  
**Professor of Art; Chair, Art**  
M.F.A., Studio Art, 1978, Florida  
State University  
B.F.A., Creative Art, Florida State  
University  
Specialized Studies in Art: Paris  
American Academy



**Areas of Specialization:** Painting  
media and theory, digital art,  
video, film, surfing

**DONALD A. RODRIGUEZ**  
**Assistant Professor of  
Environmental Science and  
Resource Management;  
Chair, ESRM**

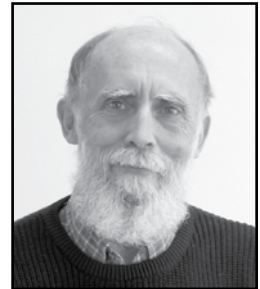
Ph.D., Human Dimensions of  
Natural Resource Manage-  
ment, 1996, Colorado State  
University  
M.S., Environmental Education,  
California State University  
Hayward  
B.S., Wildlife Zoology, San Jose State University



**Areas of Specialization:** Human Dimensions of natural  
resource management, parks and protected areas  
management, management of wildland-urban interface,  
watershed management and land use conflicts.

**PETER SMITH**  
**Professor of Computer  
Science**

Ph.D., Computer Studies, 1975,  
Lancaster University  
B.A., Computer Studies,  
Lancaster University



**Areas of Specialization:** File and  
data structures, text processing.

**STEPHEN STRATTON**  
**Associate Professor,  
Head of Collections and  
Technical Services, Library**  
M.S., Library Science, 1992,  
Wayne State University  
M.A., Counseling, Eastern  
Michigan University  
A.B., Communications, Univer-  
sity of Michigan



**Areas of Specialization:** HIV/AIDS Information,  
Information provision to GLBT populations

**KAIA TOLLEFSON**  
**Assistant Professor of Education**

Ph.D., Language, Literacy, and Sociocultural Studies, 2004, University of New Mexico  
 M.A., Public School Administration, University of Alaska, Anchorage  
 B.S., Education, Valley City State University

**Area of Specialization:** Teacher Education, Sociology of Education, Critical Theory



**CHING-HUA WANG**  
**Professor of Immunology and Microbiology; Chair, Biology**

Ph.D., Immunology, 1986, Cornell University  
 M.S., Immunology, Beijing Medical University  
 M.D., 1978, Beijing Medical College

**Areas of Specialization:** Infection and immunity, cellular and molecular immunology, microbiology



**LILLIAN VEGA-CASTANEDA**  
**Professor of Language, Culture & Literacy**

Ed.D, Teaching, Curriculum and Learning Environments, 1989, Specialization in Sociolinguistics, Harvard University  
 M.A., Bilingual/Multicultural Education, California State University Los Angeles  
 B.A., History, University of California, Irvine

**Areas of Specialization:** Multicultural/Multilingual Education, Language, Literacy and Culture in Diverse Contexts, Narrative, Social Justice and Equity issues in curriculum and instruction.



**WILLIAM J. WOLFE**  
**Professor of Computer Science; Chair, Computer Science**

Ph.D., Mathematics, 1976, City University of New York  
 B.A., Mathematics, Queens College

**Areas of Specialization:** Artificial Intelligence, Neural Networks, Scheduling Systems, Database-driven Web Sites.



**KEVIN VOLKAN**  
**Professor of Psychology**

M.P.H., Public Health, 1998, Harvard University  
 Ph.D., Clinical Psychology, 1991, Center for Psychological Studies  
 Ed.D., Educational Psychology, Northern Illinois University  
 M.A., Psychology, Sonoma State University

B.A., Biology, University of California, Santa Cruz

**Areas of Specialization:** Quantitative assessment of physician performance, Asian philosophy and religion, Psychoanalysis and Depth Psychology



**GREGORY G. WOOD**  
**Assistant Professor of Physics**

Ph.D., Physics, 2000, University of California, Riverside  
 B.S., Physics, 1996, University of California, San Diego

**Areas of Specialization:** Statistical Mechanics, Biophysics, Computational Physics



**AMY WALLACE**  
**Associate Librarian**

M.L.I.S., Library and Information Science, 1996, San Jose State University  
 M.A., History, San Diego State University  
 B.A., History, San Diego State University

**Areas of Specialization:** Reference, Instruction, & Outreach



**CYNTHIA WYELS**  
**Associate Professor of Mathematics**

Ph.D., Mathematics, University of California, Santa Barbara  
 M.S: Mathematics, University of Michigan  
 B.A: Mathematics, Pomona College

**Areas of Specialization:** Combinatorics, Linear Algebra, Graph Theory







# General Education Requirements

CSU  
SAC





CSU

# GENERAL EDUCATION REQUIREMENTS

## OBJECTIVES

The General Education Program provides a vital element in fulfilling the mission of the University. Interdisciplinary courses facilitate learning within and across disciplines, enabling students to use information and approaches from a wide variety of disciplines. Language and multicultural courses provide the opportunity for students to experience cultures other than their own in meaningful and respectful ways. General Education requirements are designed to assure that all graduates of the University, whatever their major, have acquired essential skills, experiences, and a broad range of knowledge appropriate to educated people within society.

General Education courses are intended:

- to foster an ability to think clearly and logically;
- to prepare students to find and critically examine information;
- to communicate at an appropriate level in both oral and written forms;
- to acquaint students with the physical universe and its life forms and to impart an understanding of scientific methodology and of mathematical concepts and quantitative reasoning;
- to cultivate through the study of philosophy, literature, languages, and the arts-intellect, imagination, sensibility, and sensitivity;
- to deal with human social, political, and economic institutions and their historical backgrounds, with human behavior and the principles of social interaction; and
- to integrate their knowledge by forming an interdisciplinary and insightful approach to learning.

## REQUIREMENTS

As a graduation requirement, all CSUCI students must complete 48 units of General Education distributed across categories A-E. Nine of the 48 units of General Education are required to be resident upper division, interdisciplinary courses numbered in the 330-349 or 430-449 ranges.

Transfer students who enter CSUCI as GE certified will need to complete 9 units of upper division, interdisciplinary general education coursework to meet the 48 unit requirement.

In planning to fulfill the General Education requirements, students are encouraged to consult an academic advisor and the General Education Informational Brochure.

Category A: Communication in the English Language and Critical Thinking (9 units)

Category B: Mathematics, Sciences, and Technology (12 units)

Category C: Art, Literature, Languages and Cultures (12 units)

Category D: Social Perspectives (12 units)

Category E: Human Psychological and Physiological Perspectives (3 units)

## UPPER DIVISION INTERDISCIPLINARY GENERAL EDUCATION COURSES

Nine of the 48 units of General Education have been designated as upper division, interdisciplinary courses. These courses integrate significant content, ideas, and ways of knowing from more than one discipline. Each of these courses will involve the student in collaborative work, critical thinking, and integration of ideas. By taking nine units of these courses in categories A-E, students will extend their experience across the curriculum and gain more breadth of educational experience. In addition, they will begin to make connections between their majors and a variety of other fields and ways of knowing, increasing both their knowledge and their ability to communicate with people across the disciplinary spectrum.

- The nine units of resident upper division General Education required of all students must be selected from the listing of upper division interdisciplinary courses. Courses may be cross-listed in two or more disciplines. A minimum of three semester units must come from a discipline outside the student's major and not cross-listed with the student's major discipline.
- All upper division, interdisciplinary courses will include substantive written work consisting of in-class writing as well as outside-class writing of revised prose.
- Courses numbered 330-349 do not have prerequisites.
- Courses numbered 430-449 may have prerequisites.
- Students must have junior standing or permission from the instructor to enroll in these courses.

## MAJOR SPECIFIC COURSES

Some majors require specific GE courses. Students should consult the catalog for their majors' requirements or contact their advisors.

## CROSS LISTED COURSES

Many upper division General Education courses are cross-listed. Students may only receive credit once for each cross-listed course. For example: ENGL 431 is cross-listed with ART 431. The student may choose to receive course units for either of the two courses but not both.

## DOUBLE COUNTING

A course may meet the content requirements for two or more program areas (majors, minors, and other sub-programs) with permission of the program; however, the units for the course are counted only once toward the total units for graduation. Double counting between a program and General Education requirements is allowed; however, only six of the nine units of upper division, interdisciplinary General Education courses

may be double counted between a major and General Education.

### Courses in More Than One Category

A course may be found in more than one GE category. The student may choose which category requirements the course will fill, but a single course cannot fulfill requirements for two categories or sub-categories.

## GENERAL EDUCATION CATEGORIES AND COURSES

### CATEGORY A: COMMUNICATION IN THE ENGLISH LANGUAGE AND CRITICAL THINKING (9 UNITS)

Courses in Category A approach communication as symbolic interaction, examining the formulation and complexities of those interactions. Students learn how to discover, evaluate, and report information, how to reason inductively and deductively, how to distinguish fact from judgment or opinion. Courses in Categories A1 and A2 emphasize the content and form of both oral and written English. They explore the psychological basis and the social significance of communication, as well as the ways language works in diverse situations. Through active participation in written and oral communication, students develop the skills necessary for effective speaking, comprehension, writing, and reasoning. Modes of argument, rhetorical perspectives, and the relationship of language to logic are stressed in all Category A courses.

**Students must take a minimum of one course in each of the three subcategories.**

#### A-1 Oral Communication

COMM 101	Public Speaking
COMM 200	Introduction to Communication Studies
COMM 210	Interpersonal Communication
COMM 220	Group Communication
COMM/ 336	Multicultural Literature and Communication
ENGL	Communication
COMM 442	Organizational Communication
COMM/ 345	Media Literacy and Youth Culture
EDUC	Culture
COMM/ 346	School Communication
EDUC	
ENGL 106	Composition and Rhetoric II - Service Learning
ENGL 107	Advanced Composition and Rhetoric
ENGL 330	Writing in the Disciplines
PA 101	Introduction to the Performing Arts
PA 202	Integrating Dance, Music and Theatre
PATH 280	Acting I

#### A-2 English Writing

ART/ 230	The Art of Creating Journalism
ENGL/LS	
ENGL 103	Stretch Composition II
ENGL 105	Composition and Rhetoric I

ENGL 106	Composition and Rhetoric II - Service Learning
ENGL 107	Advanced Composition and Rhetoric
ENGL 330	Writing in the Disciplines

### A-3 Critical Thinking

MATH 230	Logic and Mathematical Reasoning
UNIV 110	Critical Thinking in an Interdisciplinary Context

### CATEGORY B: MATHEMATICS, SCIENCES, AND TECHNOLOGY (12 UNITS)

Courses in this area explore the scope and major concepts of mathematics and/or scientific disciplines. In the sciences, the intent is to present the principles and concepts which form the foundations of living or non-living systems. The focus of all courses in Category B is on the presentation and evaluation of evidence and argument, the appreciation of use/misuse of data, and the organization of information in quantitative, technological, or other formal systems. Students are introduced to the principles and practices that underscore mathematical and scientific inquiry (logic, precision, hypothesis generation and evaluation, experimentation, and objectivity) and gain an understanding of the process by which new knowledge is created, organized, accessed, and synthesized. Students improve their reasoning skills (critical thinking, problem-solving, decision making, analysis, and synthesis), and apply information and technology to the understanding of complex and diverse problems in mathematics and the sciences. They become aware of the influence and significance of mathematics and the sciences in world civilization.

**Students must take a minimum of one course in each of the subcategories. At least one course must include a laboratory component.**

#### B-1 Physical Sciences-Chemistry, Physics, Geology, and Earth Sciences

ART/ 208	The Physics of Art and Visual Perception
PHYS	
ART/ 335	The Physics of Art
PAMU	
ASTR/ 105	Introduction to the Solar System
PHYS	
BIOL/ 434	Introduction to Biomedical Imaging
HLTH/PHYS	
BUS/ 341	Drug Discovery and Development
CHEM/ECON	
CHEM 100	Chemistry and Society
CHEM 105	Introduction to Chemistry
CHEM 110	Chemistry of Life
CHEM 121	General Chemistry I
CHEM 122	General Chemistry II
CHEM/ 330	The History of Science: Non-Western Origins and the Western Revolution
HIST	
CHEM 343	Forensic Science
CHEM/ 344	Energy and Society
PHYS	

COMP/	345	Digital Image Processing
MATH/PHYS		
COMP/	445	Image Analysis and Pattern Recognition
MATH/PHYS		
ENGL/	338	Science and Conscience
PHYS		
GEOL	121	Physical Geology
GEOL	122	Historical Geology
GEOL	321	Environmental Geology
PA/	436	Physics of the Performing Arts
PHYS		
PAMU/	335	The Physics of Music
PHYS		
PHSC	170	Foundations in Physical Science
PHYS	100	Introduction to Physics I
PHYS	101	Introduction to Physics II
PHYS	103	How Things Work
PHYS	106	Applied Physics and Modern Society
PHYS	107	The Stars and Beyond
PHYS	200	General Physics I
PHYS	201	General Physics II
PHYS	448	Team Based Research

### B-2 Life Sciences-Biology

ANTH	104	Introduction to Bioanthropology
ANTH	345	Human Evolution and Diversity
BIOL	100	Exploring the Living World
BIOL	170	Foundations of Life Science
BIOL	200	Principles of Organismal and Population Biology
BIOL	201	Principles of Cell and Molecular Biology
BIOL/	212	Neurobiology and Cognitive Science
PSY		
BIOL	213	Sex, Germs and Diseases
BIOL	215	Animal Diversity
BIOL	217	Medical Microbiology
BIOL/	331	Biotechnology in the Twenty-First Century
BUS		
BIOL	332	Cancer and Society
BIOL	333	Emerging Public Health Issues
BIOL	334	Natural History of Ventura County
BIOL	335	The Biosphere
BIOL	431	Bioinformatics
BIOL	432	Principles of Epidemiology and Environmental Health
BIOL	433	Ecology and the Environment
ESRM	100	Introduction to Environmental Science and Resource Management
MATH	430	Research Design and Data Analysis

### B-3 Mathematics - Mathematics and Applications

BIOL	203	Quantitative Methods for Biology
MATH	108	Mathematical Thinking
MATH	137	Strategies and Game Design
MATH	140	Calculus for Business Applications
MATH	150	Calculus I
MATH	201	Elementary Statistics
MATH/	202	Biostatistics
PSY		

MATH	208	Modern Mathematics for Elementary Teaching I-Numbers and Problem Solving
MATH	230	Logic and Mathematical Reasoning
MATH	329	Statistics for Business and Economics
MATH	330	Mathematics and Fine Arts
MATH	331	History of Mathematics
MATH	430	Research Design and Data Analysis
MATH	437	Mathematics for Game Development
MATH	448	Scientific Computing

### B-4 Computers and Information Technology

BIOL	203	Quantitative Methods for Biology
BIOL	431	Bioinformatics
CHEM	305	Computer Applications in Chemistry
COMP	100	Computers: Their Impact and Use
COMP	101	Computer Literacy
COMP	102	Web Development
COMP	105	Computer Programming Introduction
COMP/	110	Computer Literacy for Educators
EDUC		
COMP	150	Object-Oriented Programming
COMP	337	Survey of Computer Gaming
COMP/	345	Digital Image Processing
MATH/PHYS		
COMP	437	Foundations of Computer Game Development
COMP/	445	Image Analysis and Pattern Recognition
MATH/PHYS		
COMP	447	Societal Issues in Computing
COMP/	449	Human-Computer Interaction
PSY		
MATH	448	Scientific Computing

### CATEGORY C: ART, LITERATURE, LANGUAGES, AND CULTURES (12 UNITS)

The courses in this category enable students to develop a basic appreciation of the human imagination and understand the value of personal creativity in a complex, global society. Exposure to a diverse range of work in art, literature, languages, and cultures cultivates the student's ability to express intellectual and emotional responses and make subjective and objective evaluations. Awareness of diverse cultural contributions, in both historical and contemporary work, stresses the interrelationship between individual aesthetics and collective human sensibility. Numerous teaching methodologies involve active participation in the creative experience, leading to personal inquiries into the cultural diversity prevalent in the visual, literary, audible, kinetic, and oral traditions of human expression.

**Students must take one course in each subcategory.**

#### C-1 Art

ART	100	Understanding Fine Arts Processes
ART	102	Multicultural Children's Art
ART	110	Prehistoric Art to the Middle Ages
ART	111	Renaissance to Modern Art
ART	112	Art of the Eastern World



ART/	208	The Physics of Art and Visual Perception
PHYS		
ART	330	Critical Thinking in a Visual World
ART/	331	Art and Mass Media
COMM		
ART	332	Multicultural Art Movements
ART/	334	The Business of Art
BUS		
ART/	336	Art and Music: Dissonance, Diversity and Continuity
PAMU		
ART	337	Art on Film and Film as Art
ART/	338	Psychology of Art and Artists
PSY		
ART	351	The Baroque Eye: Art, Culture, Money, and Power
ART	352	Visual Canons of the Ancient World
ART	353	Medieval World: Spirituality and Representation
ART/	431	European Renaissance Literature & Art
ENGL		
ART/	432	Arts of the Harlem Renaissance
ENGL/PAMU		
ART	433	Women in the Arts
ART/	434	The Museum: Culture, Business and Education
BUS/EDUC		
ART	435	Postmodern Visual Culture
ART	436	Modern Art
ART	451	Diversity in the Visual Arts
HIST/	338	Theatre in History
PA		
PA	101	Introduction to the Performing Arts
PA	202	Integrating Dance, Music and Theatre
PADA	254	Modern Dance I
PAMU	100	Music Appreciation
PAMU	200	History of Rock
PAMU	243	Teaching Music to Children
PAMU	307	University Chorus
PAMU	308	University Orchestra
PAMU	330	Jazz in America
PAMU	333	The Varieties of Musical Experience
PAMU/	335	The Physics of Music
PHYS		
PATH	280	Acting I

### C-2 Literature Courses

ART/	335	American Ethnic Images in Novels, Film, and Art
ENGL/HIST		
ART/	431	European Renaissance Literature & Art
ENGL		
ART/	432	Arts of the Harlem Renaissance
ENGL/PAMU		
BUS/	340	Business and Economics in American Literature
ECON/ENGL		
COMM/	336	Multicultural Literature and Communication
ENGL		
ECON/	331	Narratives of the Working Class
ENGL/HIST/POLS/SOC		
ENGL	110	Themes in Multicultural Literature for Non-majors
ENGL	120	American Literature I

ENGL	150	British and European Literature I
ENGL	210	Themes in World Literature
ENGL	220	American Literature II
ENGL	250	British and European Literature II
ENGL/	332	Teaching Dramatic Literature
PATH		
ENGL/	333	Multicultural Drama in Performance/ Production
PATH		
ENGL/	334	Narratives of Southern California
HIST		
ENGL	337	Literature of the Environment
ENGL/	338	Science and Conscience
PHYS		
ENGL/	339	Psychology and Literature
PSY		
ENGL	349	Perspectives on Multicultural Literature
ENGL	350	Native American Literature
ENGL	351	African/African American Literature
ENGL	352	Asian/Asian American Literature
ENGL	353	Chicana/o Hispanic/Hispanic American Literature
ENGL/	433	Gay/Lesbian/Bisexual/Transgender Studies
GEND		
ENGL/	444	Original Practice in Renaissance Drama
PATH		

### C-3a Language

ASL	101	American Sign Language I
ASL	102	American Sign Language II
SPAN	101	Elementary Spanish I
SPAN	102	Elementary Spanish II
SPAN	201	Intermediate Spanish I
SPAN	202	Intermediate Spanish II
SPAN	211	Spanish for Heritage Speakers I
SPAN	212	Spanish for Heritage Speakers II

### C-3b Multicultural

ANTH	102	Cultural Anthropology
ANTH	323	Native Americans of California to the 1850's
ART	102	Multicultural Children's Art
ART	112	Art of the Eastern World
ART	332	Multicultural Art Movements
ART/	333	History of Southern California Chicana/o Art
HIST		
ART/	335	American Ethnic Images in Novels, Film, and Art
ENGL/HIST		
ART	435	Postmodern Visual Culture
ART	451	Diversity in the Visual Arts
CHS	100	Chicanos in Contemporary Society
COMM	321	Cultural Conversations
EDUC/	445	Chicano Child and Adolescent
HIST		
EDUC	512	Equity, Diversity and Foundations of Schooling
ENGL	110	Themes in Multicultural Literature for Non-Majors
ENGL/	333	Multicultural Drama in Performance Production
PATH		
ENGL	349	Perspectives on Multicultural Literature
ENGL	350	Native American Literature

ENGL	351	African/African American Literature
ENGL	352	Asian/Asian American Literature
ENGL	353	Chicana/o Hispanic/Hispanic American Literature
ENGL/ HIST	430	Tradition and Transformation: Literature, History, and Cultural Change
NRS/ PSY	342	Complementary and Alternative Health
PAMU	330	Jazz in America
POLS	306	The Politics of Race and Ethnicity
POLS/ SOC	330	Political Sociology
PSY	344	Psychology and Traditional Asian Thought
SPAN	201	Intermediate Spanish I
SPAN	202	Intermediate Spanish II
SPAN	211	Spanish for Heritage Speakers I
SPAN	212	Spanish for Heritage Speakers II
UNIV	392	International Experience

### CATEGORY D: SOCIAL PERSPECTIVES (12 UNITS)

The courses in this category enhance student knowledge of the complex cultural and institutional world in which people live. Each course examines relationships between various cultures and institutions that shape our social, economic, psychological, and political realities. Using the lenses of the social sciences, students gain insight and understanding of the social, political, historical, economic, educational or behavioral aspects of world cultures and systems, including the ways in which these interact and influence each other.

**Students must select a minimum of three courses (12 units), each course in a different social science discipline.**

ANTH	102	Cultural Anthropology
ANTH	310	Civilization of an Ancient Landscape: World Archaeology
ANTH	323	Native Americans of California to the 1850's
ANTH/ ESRM	332	Human Ecology
ANTH/ HIST	442	The African Diaspora
ANTH	443	Medical Anthropology: Cross-Cultural Perspectives on Health and Healing
ANTH/ ECON	444	Values and Valuables
ART/ COMM	331	Art and Mass Media
ART/ HIST	333	History of Southern California Chicana/o Art
ART/ BUS	334	The Business of Art
ART/ PAMU	336	Art and Music: Dissonance, Diversity and Continuity
ART	337	Art on Film and Film as Art
ART	433	Women in the Arts
ART/ BUS/EDUC	434	The Museum: Culture, Business and Education
BIOL/ MGT	326	Scientific and Professional Ethics

BIOL/ BUS	331	Biotechnology in the Twenty-First Century
BIOL	332	Cancer and Society
BIOL/ BUS/ECON/EDUC	342	The Zoo: Conservation, Education and Recreation
BIOL/ POLS	345	Science and Public Policy
BIOL	432	Principles of Epidemiology and Environmental Health
BUS/ ECON/ENGL	340	Business and Economics in American Literature
BUS/ CHEM/ECON	341	Drug Discovery and Development
BUS/ ECON/EDUC/LIB	344	The Library: Collections, Services and Instruction
BUS/ ECON/HIST	349	History of Business and Economics in North America
BUS	424	Business, Government and Society
BUS/ ECON/SOC	448	Sociology of Globalization and Development
CHS	100	Chicanos in Contemporary Society
COMM/ POLS	335	Politics and Film
COMM/ EDUC	345	Media Literacy and Youth Culture
COMM/ POLS	430	Political Communication
COMM/ NRS	441	Health Communication
COMP	447	Societal Issues in Computing
ECON	110	Principles of Microeconomics
ECON	111	Principles of Macroeconomics
ECON	300	Fundamentals of Economics
ECON/ ENGL/HIST/POLS/SOC	331	Narratives of the Working Class
ECON/ FIN	343	Capital Theory
ECS	101	Introduction to Early Childhood Education
EDUC	101	Introduction to Elementary Schooling
EDUC	320	Education in Modern Society
EDUC	330	Introduction to Secondary Schooling
EDUC/ POLS	431	Education Policy and Politics
EDUC/ HIST	445	Chicano Child and Adolescent
ENGL/ HIST	334	Narratives of Southern California
ENGL	337	Literature of the Environment
ENGL/ PSY	339	Psychology and Literature
ENGL/ HIST	430	Tradition and Transformation: Literature, History, and Cultural Change
ENGL/ GEND	433	Gay/Lesbian/Bisexual/Transgender Studies
ESRM	100	Introduction to Environmental Science and Resource Management
ESRM/ POLS	340	Politics and the Environment
ESRM/ HIST	342	Environmental History

ESRM/	440	Population Studies	BIOL	213	Sex, Germs and Diseases
SOC			BIOL	333	Emerging Public Health Issues
GEOG	201	Culture and Historical Geography of the World	BIOL/	434	Introduction to Biomedical Imaging
HIST	211	World Civilizations: Origins to 1500	HLTH/PHYS		
HIST	212	World Civilizations: Since 1500	COMP/	449	Human-Computer Interaction
HIST	280	The Historian's Craft	PSY		
HIST/	338	Theatre in History	HIST/	340	History and Psychology of Nazi Germany
PA			PSY	436	Psychology and History of East Asian Warrior Cultures
HIST/	340	History and Psychology of Nazi Germany	HLTH	322	Health Issues in Education
PSY			NRS/	342	Complementary and Alternative Health
HIST	365	Themes in World History	PSY		
HIST	402	Southern California Chicano/a History and Culture	NRS/	348	Healthy Aging
			PSY/SOC		
HIST	412	Law and Society	PADA	254	Modern Dance I
HIST	413	World Religions and Classical Philosophies	PHED	102	Seminar in Traditional Martial Arts: Tai Ji
HIST/	436	Psychology and History of East Asian Warrior Cultures	PHED	105	Zen of Surfing
PSY			PHED	110	Wellness
MATH	331	History of Mathematics	PHED	208	Introduction to Kinesiology
NRS/	348	Healthy Aging	PHED	302	Motor Learning, Fitness and Development in Children
PSY/SOC			PHED	310	Adapted Physical Education
POLS	102	Comparative Government	PSY	100	Introduction to Psychology
POLS	103	Introduction to International Politics	PSY	210	Learning, Cognition and Development
POLS	328	United States Foreign Policy	PSY	213	Developmental Psychology
POLS/	330	Political Sociology	PSY	220	Human Sexual Behavior
SOC			PSY	344	Psychology and Traditional Asian Thought
PSY	100	Introduction to Psychology	PSY/	345	Individuals with Disabilities in Society
PSY	213	Developmental Psychology	SPED		
PSY	333	Measurement and Testing of Groups and Individuals	PSY	346	Human Motivation
PSY	337	Psychological Ethics and Moral Philosophy	PSY	432	Seminar in Leadership
PSY/	345	Individuals with Disabilities in Society	PSY	441	The Psychology of Space
SPED			PSY	445	Adolescent Development
PSY	432	Seminar in Leadership			
PSY	441	The Psychology of Space			
PSY	445	Adolescent Development			
SOC	100	Introduction to Sociology			
SOC	201	Social Problems in a Service Learning Context			

### CATEGORY E: HUMAN PSYCHOLOGICAL AND PHYSIOLOGICAL PERSPECTIVES (3 UNITS)

The courses in this category enhance students' awareness and understanding of themselves as both psychological and physiological beings. These courses promote this awareness by focusing on issues such as human development, human sexuality, human behavior and psychology, health, nutrition, physical activity, and death and dying. The perspective is that humans, as physiological and psychological beings, must relate to others in a physical and social environment.

**Students must complete at least one course to satisfy Category E. Courses that are primarily physical activity courses may satisfy no more than 1 unit of the 3-unit requirement.**

ART/	338	Psychology of Art and Artists
PSY		
BIOL/	212	Neurobiology and Cognitive Science
PSY		

BIOL	213	Sex, Germs and Diseases
BIOL	333	Emerging Public Health Issues
BIOL/	434	Introduction to Biomedical Imaging
HLTH/PHYS		
COMP/	449	Human-Computer Interaction
PSY		
HIST/	340	History and Psychology of Nazi Germany
PSY	436	Psychology and History of East Asian Warrior Cultures
HLTH	322	Health Issues in Education
NRS/	342	Complementary and Alternative Health
PSY		
NRS/	348	Healthy Aging
PSY/SOC		
PADA	254	Modern Dance I
PHED	102	Seminar in Traditional Martial Arts: Tai Ji
PHED	105	Zen of Surfing
PHED	110	Wellness
PHED	208	Introduction to Kinesiology
PHED	302	Motor Learning, Fitness and Development in Children
PHED	310	Adapted Physical Education
PSY	100	Introduction to Psychology
PSY	210	Learning, Cognition and Development
PSY	213	Developmental Psychology
PSY	220	Human Sexual Behavior
PSY	344	Psychology and Traditional Asian Thought
PSY/	345	Individuals with Disabilities in Society
SPED		
PSY	346	Human Motivation
PSY	432	Seminar in Leadership
PSY	441	The Psychology of Space
PSY	445	Adolescent Development

### UPPER DIVISION INTERDISCIPLINARY GENERAL EDUCATION COURSES

Courses in the following list meet the upper division general education requirement and may also be counted toward the designated General Education category. If a course is designated in more than one GE category the student must choose which GE category the course is fulfilling.

ANTH/	332	Human Ecology
ESRM		
ANTH	345	Human Evolution and Diversity
ANTH/	442	The African Diaspora
HIST		
ANTH	443	Medical Anthropology: Cross-Cultural Perspectives on Health and Healing
ANTH/	444	Values and Valuables
ECON		
ART	330	Critical Thinking in a Visual World
ART/	331	Art and Mass Media
COMM		
ART	332	Multicultural Art Movements
ART/	333	History of Southern California Chicana/o Art
HIST		

ART/ BUS	334	The Business of Art	COMM/441	Health Communication
ART/ ENGL/HIST	335	American Ethnic Images in Novels, Film, and Art	NRS	
ART/ PAMU	336	Art and Music: Dissonance, Diversity and Continuity	COMM 442	Organizational Communication
ART	337	Art on Film and Film as Art	COMP 337	Survey of Computer Gaming
ART/ PSY	338	Psychology of Art and Artists	COMP/ 345	Digital Image Processing
ART/ ENGL	431	European Renaissance Literature & Art	MATH/PHYS	
ART/ ENGL/PAMU	432	Arts of the Harlem Renaissance	COMP 437	Foundation of Computer Game Development
ART	433	Women in the Arts	COMP/ 445	Image Analysis and Pattern Recognition
ART/ BUS/EDUC	434	The Museum: Culture, Business and Education	MATH/PHYS	
ART	435	Postmodern Visual Culture	COMP 447	Societal Issues in Computing
ART	436	Modern Art	COMP/ 449	Human-Computer Interaction
BIOL/ BUS	331	Biotechnology in the Twenty-First Century	PSY	
BIOL	332	Cancer and Society	ECON/ 331	Narratives of the Working Class
BIOL	333	Emerging Public Health Issues	ENGL/HIST/POL/SOC	
BIOL	334	Natural History of Ventura County	ECON/ 343	Capital Theory
BIOL	335	The Biosphere	FIN	
BIOL/ BUS/ECON/EDUC	342	The Zoo: Conservation, Education and Recreation	EDUC 330	Introduction to Secondary Schooling
BIOL/ POLS	345	Science and Public Policy	EDUC/ 431	Education Policy and Politics
BIOL	431	Bioinformatics	POLS	
BIOL	432	Principles of Epidemiology and Environmental Health	EDUC/ 445	Chicano Child and Adolescent
BIOL	433	Ecology and the Environment	HIST	
BIOL/ HLTH/PHYS	434	Introduction to Biomedical Imaging	ENGL 330	Writing in the Disciplines
BUS/PA 335		Business and the Performing Arts	ENGL/ 332	Teaching Dramatic Literature
BUS/ ECON/ENGL	340	Business and Economics in American Literature	PATH	
BUS/ CHEM/ECON	341	Drug Discovery and Development	ENGL/ 333	Multicultural Drama in Performance/Production
BUS/ ECON/EDUC/LIB	344	The Library: Collections, Services and Instruction	ENGL/ 334	Narratives of Southern California
BUS/ ECON/HIST	349	History of Business and Economics in North America	HIST	
BUS/ ECON/SOC	448	Sociology of Globalization and Development	ENGL 337	Literature of the Environment
CHEM/ 330		The History of Science: Non-Western Origins and the Western Revolution	ENGL/ 338	Science and Conscience
HIST	343	Forensic Science	PHYS	
CHEM	344	Energy and Society	ENGL/ 339	Psychology and Literature
CHEM/ PHYS			PSY	
COMM/335		Politics and Film	ENGL 349	Perspectives on Multicultural Literature
POLS			ENGL/ 430	Tradition and Transformation: Literature, History, and Cultural Change
COMM/336		Multicultural Literature and Communication	HIST	
ENGL			ENGL/ 433	Gay/Lesbian/Bisexual/Transgender Studies
COMM/345		Media Literacy and Youth Culture	GEND	
EDUC			ENGL/ 444	Original Practice in Renaissance Drama
COMM/346		School Communication	PATH	
EDUC			ESRM/ 340	Politics and the Environment
COMM/430		Political Communication	POLS	
POLS			ESRM/ 342	Environmental History
			HIST	
			ESRM/ 440	Population Studies
			SOC	
			HIST/ 338	Theatre in History
			PA	
			HIST/ 340	History and Psychology of Nazi Germany
			PSY	
			HIST/ 436	Psychology and History of East Asian Warrior Cultures
			PSY	
			MATH 330	Mathematics and Fine Arts
			MATH 331	History of Mathematics
			MATH 430	Research Design and Data Analysis
			MATH 437	Mathematics for Game Development
			MATH 448	Scientific Computing
			NRS/ 342	Complementary and Alternative Health
			PSY	



NRS/	448	Healthy Aging
PSY/SOC		
PA/	436	Physics of Performing Arts
PHYS		
PAMU	330	Jazz in America
PAMU	333	The Varieties of Musical Experience
PAMU/	335	The Physics of Music
PHYS		
PHYS	448	Team Research
POLS/	330	Political Sociology
SOC		
PSY	333	Measurement and Testing of Groups and Individuals
PSY	337	Psychological Ethics and Moral Philosophy
PSY	344	Psychology and Traditional Asian Thought
PSY/	345	Individuals with Disabilities in Society
SPED		
PSY	346	Human Motivation
PSY	432	Seminar in Leadership
PSY	441	The Psychology of Space
PSY	445	Adolescent Development





# Graduation Requirements

CSUC



CSU



## GRADUATION REQUIREMENTS

### BACCALAUREATE DEGREE REQUIREMENTS

All baccalaureate degrees require completion of the requirements listed below. Degree requirements fall into three categories: general education requirements; major/minor requirements and other University requirements.

#### Total Units

A minimum of 120-122 units are required, depending on the major selected. No more than 70 units taken at a community college or another two-year college may be applied to this total, excluding military credit and credit by examination. A quarter unit is equivalent to two-thirds of a semester unit.

#### Upper Division Units

At least 40 of the total required units for graduation must be in courses numbered 300-499.

#### Major

Completion of a specific number and pattern of courses in one or more academic departments is defined as a major and is required for graduation.

#### General Education

All students must complete General Education requirements. General Education requirements can be found in the General Education section of the catalog. A minimum of nine upper division, interdisciplinary units must be completed in residence at CSU Channel Islands.

#### Residence

At least 30 of the total units must be taken at CSU Channel Islands excluding Open University and Extension units. At least 24 of these 30 units must be upper division coursework, and 12 of the 30 units must be in the major. At least 9 units of upper division interdisciplinary General Education courses (numbered in the 330-349 or 430-449 ranges) of the required 48 General Education units must be completed in residence at CSU Channel Islands.

#### Grade Point Average (GPA)

An overall GPA of 2.0 is required in:

1. Total courses attempted
2. CSU Channel Islands courses attempted; and
3. Courses in the major

### Title V, Section 40404: Graduation Requirements in United States History, Constitution and American Ideals (American Institutions Requirement)

Students are required to demonstrate competencies in U.S. History, U.S. Constitution and California state and local government for graduation. Competencies can be met by enrollment in six units as follows:

1. POLS 150 American Political Institutions (3) Students who have AP credit for American Government or have taken American Government without coverage of California government may take the following: POLS 140 California Government (1)

#### 2. Choose from one of the following:

- |      |     |  |
|------|-----|--|
| HIST | 270 | The United States to 1877 (3)          |
| HIST | 271 | The United States since 1877 (3)       |
| HIST | 272 | Constitutional History of the U.S. (3) |
| HIST | 275 | The United States to 1900 (3)          |

### Language and Multicultural Requirement

1. The language requirement can be met by satisfying General Education category C3a with a grade of C or better. Students who are G.E. certified in Section C must still meet the language requirement for graduation and may do so either by passing a C3a course with a grade of "C" or better or by demonstrating proficiency through examination. Students will also receive credit for having advanced proficiency in a language other than English. This proficiency can be demonstrated via an examination that assesses the student's language skills (speaking, listening, reading and writing) on a variety of informal and formal topics. By passing this examination, students fulfill the graduation exit requirement for language. For purposes of the General Education requirement, however, students receive content credit but not unit credit.
2. The multicultural requirement can be met by satisfying General Education category C3b with a grade of C or better.  
(SP 03-27)

### Graduation Writing Assessment Requirement

The Graduate Writing Assessment Requirement will be satisfied through the completion of 9 units of Upper-Division Interdisciplinary General Education courses, which are writing intensive.  
(SP 14-03)

## GRADUATION

### GRADUATION INFORMATION AND APPLICATION PROCESS FOR THE BACHELOR'S DEGREE

To qualify for graduation students must complete all requirements for the Bachelor's Degree by the official graduation date listed in the schedule of classes. Graduation is not automatic upon the completion of requirements. Students who intend to graduate must take the initiative and should follow the key steps listed below. While students are ultimately responsible for completing all degree requirements, assistance is available through faculty advisement, the Advising Center and Graduation Evaluations. It is important that students meet regularly with an advisor to avoid graduation problems and delays.

#### Application for Graduation

The application for Degree and Diploma and filing fee entitles students to an official graduation evaluation of progress toward meeting baccalaureate degree requirements. Students qualifying for graduation by the designated graduation date may participate in the annual commencement ceremony. Students may only participate in commencement if they have 10 or fewer units



remaining at the time of the ceremony. The application for degree is available at the Advising Center in the Bell Tower building and at the Enrollment Center in the Sage Hall.

### Key Steps to Graduation

1. Request a **preliminary graduation evaluation** from the **Advising Center** approximately **two semesters prior to the anticipated graduation date**. Students begin the process by meeting with a professional advisor in the Advising Center. The advisor will complete a preliminary check of all graduation requirements. Included in this check will be a major evaluation that may be signed by either a professional advisor or major program advisor.
2. After the initial check with the Advising Center advisor, complete the Application for Degree and Diploma, attach the preliminary graduation evaluation completed by the Advising Center advisor, along with any approved course substitutions.
3. Submit the completed preliminary evaluation, application for Bachelor's Degree and any approved course substitutions to the Enrollment Center Cashier (Sage Hall) and pay the appropriate fees for graduation application. The graduation fee covers the cost of the graduation check, the diploma, and participation in the annual commencement ceremony. **(The fee does not include cap and gown rental, which is handled separately by the Student Bookstore).** The Cashier's Office sends the Application for Degree and Diploma, preliminary graduation evaluation and certification of payment to Graduation Evaluations.
4. If the Application for Degree and Diploma is completed by the published deadline (see current semester schedule for filing dates and deadlines), a completed degree evaluation will be mailed before the end of the add/drop period in a student's last semester. The graduation evaluation confirms remaining requirements for graduation and is a formal statement on the expected semester of graduation. **The actual date of graduation will be the end of the semester in which all requirements have been met.**

5. Participate in the commencement ceremony held at the end of the spring semester if eligible (participation is optional).
6. Students not completing the requirements by expected date of graduation must reapply for graduation and will be charged a \$15 graduation refile fee.
7. After all degree requirements have been completed and Graduation Evaluators can verify their completion, a diploma is normally available within four months of final clearance. If proof of completion of degree is needed prior to receiving a diploma, verification of graduation or transcript may be requested from Records and Registration.

### Commencement and Honors Convocation

Commencement and Honors Convocation are held each year in the spring, bringing together local community members to celebrate the accomplishment of our students.

### University Honors

To receive honors at graduation at CSU Channel Islands, a student must:

1. Complete a minimum 30 units of courses taken at CSUCI for a letter grade.
2. Earn a grade point average of 3.50 or above in all work taken at CSUCI.
3. Earn the following cumulative grade point average in all undergraduate courses, including transfer work:

**Summa Cum Laude** - this honor is awarded to all students who earn a grade point average of 3.90 - 4.0.

**Magna Cum Laude** - this honor is awarded to all students who earn a grade point average of 3.75 - 3.89

**Cum Laude** - this honor is awarded to all students who earn a grade point average of 3.50 - 3.74.  
(SP 03-24)

### Participating in Commencement Ceremonies

Students may participate in commencement ceremonies if they have no more than 10 units pending toward completion of their degrees. (SP02-05)





# Programs and Degrees

CSU  
SAC



CSU

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## PROGRAMS AND DEGREES

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### ANTHROPOLOGY

Minor

### APPLIED PHYSICS

Minor

### ART

B.A., Minor, Certificate

### ASIAN-PACIFIC STUDIES

Minor

### BIOLOGY

B.A., B.S., MS, Minor, Certificate, Honors  
M.S. Biotechnology and M.B.A.

### BUSINESS & ECONOMICS

B.S. Business, B.A. Economics  
M.B.A., Minor, Certificate  
M.S. Biotechnology and M.B.A.

### CHEMISTRY

B.A., B.S., Minor, Certificate

### CHICANO/A STUDIES

Minor

### COMMUNICATION

B.A., Minor

### COMPUTER SCIENCE

B.S., MS, Minor  
B.S. Information Technology

### COMPUTER GAME DESIGN & DEVELOPMENT

Minor

### EARLY CHILDHOOD STUDIES

B.A.

### EDUCATION

Credential, M.A., Certificate

### ENGLISH: LITERATURE & WRITING

B.A., Minor, Certificate

### ENVIRONMENTAL SCIENCE & RESOURCE MANAGEMENT

B.S., Minor

### HISTORY

B.A., Minor

### LIBERAL STUDIES

B.A.

### MATHEMATICS

B.S., M.S., Minor

### NURSING

B.S.

### PERFORMING ARTS

B.A.

### POLITICAL SCIENCE

B.A., Minor

### PSYCHOLOGY

B.A., Minor

### SOCIOLOGY

B.A., Minor

### SPANISH

B.A., Minor



## ANTHROPOLOGY

### PROGRAM OFFERED

- Minor in Anthropology

Anthropologists stress the holistic relationship between humans and their environment using culture as the organizing theme. As such anthropologists study human biological origins and adaptations, as well as cultural adaptations. Although anthropology had its roots in studying hunting and gathering societies and agrarian ones, today anthropologists study modern industrial societies. Because of the ecological, holistic approaches anthropology provides a solid basis to understand the difficult choices facing modern humans, like overpopulation, dwindling resources, and environmental degradation and pollution. By using the knowledge and perspectives gained from many cultures, anthropology is in a position to offer great insight into solutions for the future. Anthropology is a key discipline contributing to multiculturalism, environmental studies, and globalization.

### CAREERS

The anthropology program prepares students for graduate school in anthropology, careers in government service, consulting, international relations, the professions (law, medicine), and teaching social sciences

### FACULTY

William Hampton Adams, Ph.D.,  
Associate Professor of Anthropology  
Sage Hall, Room 2155  
(805) 437-8866  
[bill.adams@csuci.edu](mailto:bill.adams@csuci.edu)

Rainer F. Buschmann, Ph.D.,  
Associate Professor of History  
Sage Hall, Room 2145  
(805) 437-8894  
[rainer.buschmann@csuci.edu](mailto:rainer.buschmann@csuci.edu)

### CONTACT INFORMATION

<http://anthro.csuci.edu/>

## REQUIREMENTS FOR THE MINOR IN ANTHROPOLOGY (24 UNITS)

### Lower Division Requirements (9 units)

ANTH 102	Cultural Anthropology (3)
ANTH 104	Introduction to Bioanthropology (3)
ANTH 105	Introduction to Archaeology and Prehistory

### Upper Division Requirements (9 units)

ANTH 332	Human Ecology (3)
ANTH 310	Civilizations of an Ancient Landscape World Archaeology (3)
ANTH 345	Human Evolution and Diversity (3)

### Electives (6 units)

Select two upper division courses approved by advisor.



## APPLIED PHYSICS

### PROGRAM OFFERED

- Minor in Applied Physics

Physics is the fundamental science from which many fields of science and engineering developed. It is essentially an inter-disciplinary undertaking, interacting with computer science, mathematics, the life sciences, medicine, and other disciplines. Applied physics focuses on the hi-tech applications of physics, and on developing technological skills. It applies a thorough analytic understanding of the principles to the complexities of real applications at the frontiers of science and technology, e.g. in imaging and computer vision, electronic instrumentation, and biomedical engineering. The Applied Physics Minor will equip you with the solid cross-disciplinary background that is highly valued by industry and academia. It takes a unifying, systems approach to science and technology to provide you with a strong background in fundamental science and the transferable skills (such as analytical thinking, communication skills, computer literacy and cooperative learning) relevant to a rapidly changing working environment.

### CAREERS

The program gives you the opportunity to explore selected area(s) in greater depth, thus providing you with the depth and flexibility to explore a wide variety of career opportunities, including graduate study, medical school, teaching, imaging science, instrumentation, investments and technical management.

### FACULTY

Geoff Dougherty, Ph.D.

Professor of Physics  
Aliso Hall, Room 101  
(805) 437-8990

e-mail: [geoff.dougherty@csuci.edu](mailto:geoff.dougherty@csuci.edu)

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Gregory Wood, Ph.D.

Assistant Professor of Physics  
Aliso Hall, Room 102  
(805) 437-3293

e-mail: [gregory.wood@csuci.edu](mailto:gregory.wood@csuci.edu)

### CONTACT INFORMATION

<http://physics.csuci.edu/>

## REQUIREMENTS FOR THE MINOR IN APPLIED PHYSICS (25 UNITS)

### Lower Division Requirements (12 units)

MATH 150 Calculus I (4)

PHYS 200 General Physics I (4)

PHYS 201 General Physics II (4)

### Upper Division Requirements (13 units)

#### 1. Applied Physics (10-11 units)

PHYS/ 345 Digital Image Processing (3)

MATH/COMP

PHYS/ 434 Introduction to Biomedical  
BIOL/HLTH Imaging (4)

*and either*

PHYS/ 445 Image Analysis and Pattern  
MATH/COMP Recognition (3)

*or*

PHYS/ 464 Medical Instrumentation (4)  
BIOL/HLTH

#### 2. Applied Physics Electives (2-3 units)

*Choose from:*

PHYS 490 Topics in Physics (3)

PHYS 492 Internship (3)

PHYS 494 Independent Research (1-3)

PHYS 497 Directed Studies (1-3)

PHYS 499 Senior Colloquium (1)



## ART

### PROGRAMS OFFERED

- Bachelor of Arts Degree in Art  
Option in Studio Art  
Option in Art History
- Minor in Art
- Minor in Computer Game Design
- Certificate in Digital Media Art

The California State University Channel Islands Art Major focuses on interdisciplinary studies in fine art, digital art technology, graphic design and art history, emphasizing an innovative approach to artistic process, technique and problem solving through the integration of traditional media and digital technologies. Courses in studio art, art history and interdisciplinary studies focus on developing a solid artistic foundation, leading to advanced work in art media and theory. The studio art option provides in-depth study in the areas of two-dimensional art, three-dimensional art, digital media art, and communication design technology. The art history option provides in-depth study in the history of art and interdisciplinary topics.

The CSUCI Art program is designed for students who wish to pursue:

- a Bachelor of Arts Degree in Art,
- a Minor in Art,
- a Certificate in Digital Media Art,
- a Liberal Studies Concentration in Art,
- preparation for graduate study, and
- preparation for professional and academic fields in the Arts.

### CAREERS

Students prepare for a wide range of opportunities in today's professional and academic fields. Careers include visual arts positions in fine art, graphic design, Web design, multimedia, computer graphics, computer animation, digital photography, video art, digital filmmaking, visual effects, galleries, museums, teaching and numerous other professions in the arts.

### PROGRAM LEARNING OUTCOMES

Students graduating from the Art program will be able to:

- demonstrate methods of critical analysis through the analysis, interpretation, and evaluation of works of art;
- demonstrate informed understanding and appreciation of the role of art in contemporary society as well as throughout history;
- create and express personal ideas and opinions through artwork in response to diverse range of global events;
- explore the integration of traditional art techniques and materials with emerging art technologies;
- develop communication skills needed to articulate their conscious artistic intentions, and express coherent aesthetics;

- demonstrate familiarity with high-tech tools while working with emerging digital art technologies;
- demonstrate their preparation for professional artistic practice through the refinement of artistic concept, narrative and technique;
- complete in-depth work in specific media and demonstrate advanced competency in artistic production; and
- analyze a diverse range of career opportunities in their selected artistic discipline.

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## **REQUIREMENT FOR THE BACHELOR OF ARTS IN ART (120 UNITS)**

### **LOWER DIVISION REQUIREMENTS (24 UNITS)**

Art majors are required to complete a minimum of twenty-four units of lower division Art courses in preparation for upper division studies in the major.

#### **Studio Fundamentals (12 units)**

ART	105	Drawing and Composition (3)
ART	106	Color and Design (3)
ART	107	Life Drawing (3)
ART	108	Visual Technologies (3)

#### **Art History (6 units)**

Select two courses from the following:

ART	110	Prehistoric Art to the Middle Ages (3)
ART	111	Renaissance to Modern Art (3)
ART	112	Arts of the Eastern World (3)

#### **Studio Electives (6 units)**

In selecting lower division studio elective courses (100 and 200 level), students are encouraged to enroll in courses that satisfy prerequisites for upper division study in specific areas. Transfer students may substitute CSU transferable lower division studio art, graphic design and multimedia courses subject to the approval of the CSUCI art program.

Select a minimum of two courses from the following:

ART	201	Painting (3)
ART	202	Sculpture (3)
ART	203	Illustration (3)
ART	204	Graphic Design (3)
ART	205	Multimedia (3)
ART	206	Animation (3)
ART	207	Ceramics (3)
ART	208	Physics of Art and Visual Perception (3)

### **UPPER DIVISION REQUIREMENTS (33 UNITS)**

Upper division Art majors are required to select an option within the major and complete a minimum of thirty-three units of upper division Art courses.

#### **STUDIO ART OPTION**

Upper Division Art Studio Courses (18 units)  
Upper Division Art History & Interdisciplinary Art Courses (6 units)  
Professional Preparation Courses (9 units)

#### **ART HISTORY OPTION**

Upper Division Art History & Interdisciplinary Art Courses (18 units)  
Upper Division Art Studio Courses (6 units)  
Professional Preparation Courses (9 units)

### **UPPER DIVISION STUDIO ART COURSES**

Students are encouraged to pursue an integrated approach in the exploration of media and artistic processes by integrating traditional methods of art

production with digital technologies in at least two areas of study. Assignments incorporate projects created with basic art materials working in conjunction with digital art technologies that lead toward development of artistic skills and computer literacy (six hours studio/lab activity per week). All ART majors are required to select a minimum of two (6 units) of the following courses: ART 310, 311, 312, 313, 314, 315, 316. Upon completion of these courses, ART Majors in the Studio Art Option are required to select an additional four courses (12 units) of upper division 300/400 level studio art courses.

Select a minimum of two courses from the following:

ART	310	Two-Dimensional Art: Painting Media and Techniques (3)
ART	311	Three-Dimensional Art: Sculpture Media and Techniques (3)
ART	312	Digital Media Art: Time-Based Imaging and Compositing (3)
ART	313	Communication Design Technology: Graphic Design for Print Media (3)
ART	314	Digital Media Art: Digital Photography (3)
ART	315	Animation Media and Techniques (3)
ART	316	Digital Illustration and Painting (3)

Upon completion of prerequisites, select additional studio art courses from at least two areas of study. Assignments focus on the development of artistic concepts and theories, visual continuity and increased competency in media and applied techniques that result in the creation of individual art projects (six hours studio/lab activity per week - 3 unit courses, repeatable one time for additional credit).

ART	320	Two Dimensional Art: Painting Theory and Process (3)
ART	321	Three-Dimensional Art: Sculpture Theory and Process (3)
ART	322	Digital Media Art: Time-Based Graphics and Visual Effects (3)
ART	323	Communication Design Technology: Packaging and Pre-Press (3)
ART	324	Communication Design Technology: Web Design (3)
ART	325	Digital Media Art: Digital Filmmaking (3)
ART	326	Digital Media Art: 3D Computer Animation: (3)
ART	327	Communication Design Technology: Multimedia Theory and Process (3)
ART	328	Digital Media Art: Photographic Theory and Process (3)
ART	329	Three-Dimensional Art: Ceramic Theory and Process (3)

Advanced artistic problems courses provide students with the opportunity to continue in-depth investigations working in selected media, leading to the development of sound artistic concepts and proficiency in advanced artistic processes. Continued exploration into the integration of media and technologies lead students to the development of a congruent body of work. (Creation and presentation of a professional portfolio is a required



component of the course work (six hours studio/lab activity per week - 3 units courses, repeatable one time for additional credit).

- ART 420 Advanced Artistic Problems: Two-Dimensional Art (3)
- ART 421 Advanced Artistic Problems: Three Dimensional Art (3)
- ART 422 Advanced Artistic Problems: Digital Media Art (3)
- ART 423 Advanced Artistic Problems: Communication Design Technology (3)

## ART HISTORY AND INTERDISCIPLINARY ART COURSES

Upper division Art History & Interdisciplinary courses focus on the History of Art and Art Theory. Interdisciplinary Art courses integrate academic study of Art with related content from other disciplines. All Art Majors are required to select a minimum of two (6 units) of Art History-Interdisciplinary Art courses. Art Majors in the Art History Option are required to select an additional four courses (12 units) of upper division 300/400 level Art History-Interdisciplinary Art courses from the list below.

### Select a minimum of two courses from the following:

- ART 330 Critical Thinking in a Visual World (3)
- ART 331 Art, Society and Mass Media (3)
- ART 332 Multicultural Art Movements (3)
- ART 333 History of Southern California Chicana/o Art (3)
- ART 334 The Business of Art (3)
- ART 337 Art as Film and Film as Art (3)
- ART 338 Psychology of Art and Artists (3)
- ART 352 Visual Canons of the Ancient World (3)
- ART 353 The Medieval World: Spirituality and Representation (3)
- ART 351 The Baroque Eye: Art, Culture, Money, Power (3)
- ART 431 European Renaissance Literature & Art (3)
- ART 433 Women in the Arts (3)
- ART 434 The Museum: Culture, Business, Education (3)
- ART 435 Postmodern Visual Culture (3)
- ART 436 Modern Art (3)
- ART 451 Diversity in the Visual Arts (3)

### Professional Preparation Courses (9 units)

Upper division Professional Preparation courses provide students with an understanding of current issues in the arts, application of specialized studio work, field activities and service learning.

- ART 489 Arts Seminar (3)
- ART 490 Special Topics in Art (3)
- ART 499 Arts Capstone Project (3)

## ART ELECTIVES

Upper Division Art elective courses may fulfill up to six units of upper division Studio Art or Art History requirements. Portfolio review required. Restricted enrollment courses.

- ART 492 Internship in the Arts (1-3)
- ART 494 Directed Independent Study (1-3)

## TOTAL UNITS FOR THE B.A. DEGREE IN ART (120 UNITS)

Art Courses (57 units)  
General Education Courses (48 units)  
American Institutions Requirement Courses (6 units)  
University Elective Courses (9 units)

## REQUIREMENTS FOR THE MINOR IN ART (24 UNITS)

The Art minor provides non-majors with the opportunity to explore artistic media, techniques and basic art concepts. Coursework includes aspects of art appreciation, aesthetics, art history and studio experience. Students seeking a minor in Art are required to complete a minimum of twenty-four units of Art courses.

## LOWER DIVISION REQUIRED COURSES (12 UNITS)

- ART 105 Drawing and Composition (3)
- ART 106 Color and Design (3)
- ART 108 Visual Technologies (3)

### Select one additional course from the following:

- ART 100 Understanding Fine Arts Processes (3)
- ART 102 Multicultural Children's Art (3)
- ART 107 Life Drawing (3)
- ART 110 Prehistoric Art to the Middle Ages (3)
- ART 111 Renaissance to Modern Art (3)
- ART 112 Arts of the Eastern World (3)

## STUDIO ART COURSES (6 UNITS)

### Select a minimum of two courses from the following:

- ART 201 Painting (3)
- ART 202 Sculpture (3)
- ART 203 Illustration (3)
- ART 204 Graphic Design (3)
- ART 205 Multimedia (3)
- ART 206 Animation (3)
- ART 207 Ceramics (3)
- ART 310 Two-Dimensional Art: Painting Media and Techniques (3)
- ART 311 Three-Dimensional Art: Sculpture Media and Techniques (3)
- ART 312 Digital Media Art: Time-Based Imaging and Compositing (3)
- ART 313 Communication Design Technology: Graphic Design for Print Media (3)
- ART 314 Digital Media Art: Digital Photography (3)
- ART 315 Animation Media and Techniques (3)
- ART 316 Digital Illustration and Painting (3)

## ART HISTORY & INTERDISCIPLINARY ART COURSES (6 UNITS)

Select a minimum of two courses from the following:

- ART 330 Critical Thinking in a Visual World (3)
- ART 331 Art and Mass Media (3)
- ART 332 Multicultural Art Movements (3)
- ART 333 History of Southern California Chicana/o Art (3)
- ART 334 The Business of Art (3)
- ART 337 Art as Film and Film as Art (3)
- ART 338 Psychology of Art and Artists (3)
- ART 351 The Baroque Eye: Art, Culture, Money, Power (3)
- ART 352 Visual Canons of the Ancient World (3)
- ART 353 The Medieval World: Spirituality and Representation (3)
- ART 431 European Renaissance Literature & Art (3)
- ART 433 Women in the Arts (3)
- ART 434 The Museum: Culture, Business, Education (3)
- ART 435 Postmodern Visual Culture (3)
- ART 436 Modern Art (3)
- ART 451 Diversity in the Visual Arts (3)

## REQUIREMENTS FOR CERTIFICATE IN DIGITAL MEDIA ART (18 UNITS)

The certificate program in Digital Media Art is designed to prepare individuals for an entry-level career working in the expanding field of Digital Media Art. Courses specifically focusing on multimedia, digital design for print media, Web design, digital photography, motion graphics, and visual effects for film/video and computer animation lead to an in-depth understanding and technical proficiency working in computer-based media.

### Required Courses

- ART 108 Visual Technologies (3)
- ART 204 Graphic Design (3)
- ART 205 Multimedia (3)
- ART 312 Digital Media Art: Time-Based Imaging and Compositing (3)
- ART 324 Communication Design Technology: Web Design (3)

Select one additional course from the following:

- ART 314 Digital Media Art: Digital Photography (3)
- ART 325 Digital Media Art: Digital Filmmaking (3)
- ART 326 Digital Media Art: 3D Computer Animation (3)
- ART 327 Communication Design Technology Multimedia Theory and Process (3)



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## ASIAN-PACIFIC STUDIES

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### PROGRAM OFFERED

- Minor in Asian-Pacific Studies

The minor in Asian-Pacific Studies gives students exposure to the cultures, histories, literatures, philosophies, politics and psychologies related to the study of the Asian-Pacific region. The minor in Asian-Pacific Studies is appropriate for students interested in understanding the diverse perspectives and influences, traditional and modern, emanating from this part of the world.

### FACULTY COORDINATOR

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### REQUIREMENTS FOR THE MINOR IN ASIAN-PACIFIC STUDIES (18 UNITS)

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#### LOWER-DIVISION REQUIREMENTS (0 UNITS)

None.

#### UPPER-DIVISION REQUIREMENTS (18 UNITS)

Eighteen units from the following list (also includes Lower Division courses):

ART	112	Arts of the Eastern World (3)
ENGL	452	Asian/Asian American Literature (3)
HIST	380	History of the Pacific Islands (3)
HIST	391	Traditional China (3)
HIST	392	Modern China (3)
HIST	393	Contemporary China (3)
HIST	394	Traditional Japan (3)
HIST	395	Modern Japan (3)
HIST	396	East Asia: Then and Now (3)
PHED	102	Traditional Asian Martial Arts: Tai Ji (repeatable) (1)
PSY	344	Psychology and Traditional Asian Thought (3)
PSY/ HIST	436	Psychology and History of Asian Warrior Cultures (3)

(Other courses may be used to satisfy the requirements on approval of the Faculty Coordinator.)





## BIOLOGY

### PROGRAMS OFFERED

- Bachelor of Science in Biology
- Bachelor of Science in Biology with an Emphasis in Biotechnology
- Bachelor of Science in Biology with an Emphasis in Cell and Molecular Biology
- Bachelor of Science in Biology with an Emphasis in Ecology, Evolution and Organismal Biology
- Bachelor of Science in Biology with an Emphasis in Medical Imaging
- Bachelor of Arts in Biology with an Emphasis in Ecology, Evolution and Organismal Biology
- Bachelor of Arts in Biology with an Emphasis in General Biology
- Bachelor of Arts in Biology with an Emphasis in Pre-Professional Studies
- Bachelor of Arts in Biology with an Emphasis in Subject Matter Preparation in Teaching Biology
- Master of Science in Biotechnology and Bioinformatics
- Master of Science in Biotechnology and Master of Business Administration
- Minor in Biology
- Certificate in Biotechnology
- Honors in Biology

### PROGRAM DESCRIPTION

Biology is the study of life, its origins, diversity and intricacies. It emphasizes the relationship between structure and function in living systems and the processes, by which organisms grow, reproduce and interact with each other and their environment. The discipline is dynamic and rapidly advancing, particularly in the areas of biotechnology and information technology. The Biology Program provides its undergraduate and graduate students with a strong theoretical foundation in biology, combined with extensive hands-on laboratory experiences using state-of-the-art technology. Students take a series of core courses augmented by electives selected from areas of special interest.

### CAREERS

The Bachelor of Science in Biology is designed for students who wish to enter medical, dental or other health professional or graduate schools, or to seek careers in business, industry or government.

The Bachelor of Science in Biology with an Emphasis in Biotechnology enables students to make a smooth transition from academia to biotechnology industry by understanding the concepts of basic and applied biotechnology. This program allows students to have numerous career avenues and the groundwork for graduate study.

The Bachelor of Science in Biology with an Emphasis in Cell and Molecular Biology offers students an

opportunity to study the exciting developments in genetics, molecular biology, cloning, biotechnology and bioinformatics. This program leads to careers in medical sciences, biotechnology, pharmaceuticals, research and development, intellectual property and patent law.

The Bachelor of Science in Biology with an Emphasis in Ecology, Evolution and Organismal Biology allows students to explore biodiversity at multiple levels of organization, from molecules to the biosphere. Students will gain an understanding of the complex interactions among organisms and between organisms and their physical environments. The emphasis prepares students for environmental studies, conservation, research, or education. It also provides preparation for graduate study in biology.

The Bachelor of Science in Biology with an Emphasis in Medical Imaging prepares students for graduate or professional study in the medical sciences (medical imaging, medical physics, health physics, dosimetry, nuclear medicine, radiotherapy, oncology, biomedical engineering), or for entry into professional positions in the clinical environment and in medical imaging research and development.

The Bachelor of Arts degree is designed to obtain a general background in both the concepts and the technical skills of modern biology. Students completing the Bachelor of Arts major will find that their strong general background will allow them flexibility in both completing minor fields of study and career choices. The degree prepares graduates for careers in medical and other health professions (Emphasis in Pre-Professional Studies), science education (Emphasis in Subject Matter Preparation in Teaching Biology), industry or government (Emphasis in General Biology).

Biology as a discipline has been rapidly advancing in the last decade. With the information derived from the sequencing of the genomes of many organisms, it will have far-reaching impacts on the environment, public health, and on local, regional, and global economies. The Biology Minor allows students in majors other than biology to gain an understanding of these exciting developments. It will provide a solid background in biology and the opportunity to explore selected area(s) at a greater depth. Equipped with a minor in biology, students with a major in other disciplines will have a greater understanding and knowledge of the latest advances in many areas of biology and will therefore be more versatile in their career paths. The requirement for a Minor in Biology is 21 units.

The Certificate in Biotechnology will provide students with advanced knowledge and skills in modern biotechnology that will lead to careers in biotechnology as well as pharmaceutical industries.



## PROGRAM LEARNING OUTCOMES

Students graduating from the Biology program will be able to:

- explain the basic structures and fundamental processes of life at molecular, cellular and organismal levels;
- identify the evolutionary processes that lead to adaptation and biological diversity;
- describe the relationship between life forms and their environment and ecosystems;
- collect, organize, analyze, interpret and present quantitative and qualitative data and incorporate them into the broader context of biological knowledge;
- effectively apply current technology and scientific methodologies for problem solving;
- find, select and evaluate various types of scientific information including primary research articles, mass media sources and world-wide web information; and
- communicate effectively in written and oral forms.

## REQUIREMENTS FOR HONORS IN BIOLOGY

Candidacy for honors in biology is voluntary. To be eligible, a student must fulfill the following requirements:

1. Achieve a minimum grade point average of 3.5 for all courses satisfying the requirements for the major as defined above;
2. Take at least seven courses in the major at this university;
3. Satisfactorily complete a Service Learning course from BIOL 492, 494 or 497;
4. Satisfactorily complete a Senior Capstone course.

Application for candidacy must be made at the beginning of the senior year. Approval of candidacy and of the Service Learning project and project advisor rests with the Biology Program. The project advisor will have the sole responsibility for acceptance of the completed project.

The Biology Program may grant honors to exceptional students who have not met the above requirements, but who have in the judgment of the Program brought distinction upon themselves and the Program in some other significant and appropriate manner.

## FACULTY

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For graduation roadmaps for the B.S. and B.A. programs in Biology, please visit: <http://biology.csuci.edu>.

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BIOLOGY (120 UNITS)

**Common Lower Division Requirements for All Emphases of the Bachelor of Science Degree in Biology (8 Units)**

- BIOL 200\* Principles of Organismal and  
Population Biology, GE-B2 (4)  
BIOL 201 Principles of Cell & Molecular Biology (4)

## FOR BACHELOR OF SCIENCE IN BIOLOGY

**Upper Division Requirements in the Major (39 Units)**

1. Required Biology Courses (25 units)
  - BIOL 300 Cell Biology (4)
  - BIOL 302 Genetics (4)
  - BIOL 303 Evolutionary Biology (3)
  - BIOL 304 Comparative Animal Physiology (3)
  - BIOL 400 Molecular Biology (4)
  - BIOL 433\* Ecology and the Environment, GE- B2, UDID (4)
  - BIOL 499 Senior Capstone in Biology (3)
2. Electives in Biology (14 units)  
*Select from the following list of courses, one of which must be a lab course.*
  - BIOL 301 Microbiology (4)
  - BIOL 310 Vertebrate Biology (4)
  - BIOL 311 Plant Biology and Ecology (4)
  - BIOL 312 Marine Biology (4)
  - BIOL/ESRM 313 Conservation Biology (4)
  - BIOL 316 Invertebrate Zoology (4)
  - BIOL 317 Parasitology (4)
  - BIOL 401 Biotechnology and Recombinant DNA Techniques (5)
  - BIOL 402 Toxicology (3)
  - BIOL 403 Foundations of Structural Biology (4)
  - BIOL 404 Plant and Animal Tissue Culture (3)
  - BIOL 405 Biochemical Engineering (4)
  - BIOL 406 Evolutionary Biogeography (3)
  - BIOL 407 Behavioral Ecology (3)
  - BIOL 408 Nanobiotechnology (3)

BIOL	420	Cellular & Molecular Immunology (4)
BIOL	421	Virology (3)
BIOL	422	Molecular Plant Physiology (4)
BIOL	423	Cellular & Molecular Neurobiology (3)
BIOL	424	Human Physiology (3)
BIOL	425	Human Genetics (3)
BIOL	427	Developmental Biology (4)
BIOL	428	Biology of Cancer (3)
BIOL	431*	Bioinformatics, GE-B2, B4, UDID (4)
BIOL	432*	Principles of Epidemiology and Environmental Health, GE-B2, D, UDID (3)
BIOL	450	Ichthyology: The Biology of Fishes (4)
BIOL	451	Ornithology (4)

No more than 2 units taken from the following:

BIOL	492	Internship (2-3)
BIOL	494	Independent Research (1-3)
BIOL	497	Directed Study (1-3)

### Required Supporting and Other GE Courses (73 Units)

- Chemistry (16 units)
 

CHEM	121*	General Chemistry I, GE-B1 (4)
CHEM	122	General Chemistry II, GE-B1 (4)
CHEM	311	Organic Chemistry I (3)
CHEM	312	Organic Chemistry I Laboratory (1)
CHEM	314	Organic Chemistry II (3)
CHEM	315	Organic Chemistry II Laboratory (1)

*(A year-long organic chemistry sequence with laboratory taken at a community college may be accepted for the Biology major in lieu of CHEM 311, 312, 314, 315)*
- Physics (8 units)  
Select either
 

PHYS	100	Introduction to Physics I, GE-B1 (4)
<i>and</i>		
PHYS	101	Introduction to Physics II, GE-B1 (4)
<i>or</i>		
PHYS	200	General Physics I, GE-B1 (4)
<i>and</i>		
PHYS	201	General Physics II, GE-B1 (4)
- Statistics and Mathematics (7 units)
 

BIOL	203*	Quantitative Methods for Biology, GE-B3, B4 (3)
MATH	150*	Calculus I, GE-B3 (4)
- Other Required GE Courses in Categories A-E (36 units)
 

Category A	(9 units)
Category C	(12 units)
Category D	(12 units)
Category E	(3 units)
- American Institutions Requirement (6 units)

## FOR EMPHASIS IN BIOTECHNOLOGY

### Upper Division Requirements in the Major (49 Units)

- Required Biology Courses (37 units)
 

BIOL	300	Cell Biology (4)
BIOL	301	Microbiology (4)
BIOL	302	Genetics (4)
BIOL	400	Molecular Biology (4)
BIOL	401	Biotechnology and Recombinant DNA Techniques (5)
BIOL	404	Plant and Animal Tissue Culture (3)
BIOL	405	Biochemical Engineering (4)
BIOL	420	Cellular & Molecular Immunology (4)
BIOL	492	Internship (2-3)
BIOL	499	Senior Capstone in Biology (3)
- Electives in Biology and Physics (12 units)  
*Select from the following list of courses:*

BIOL/315	Introduction to Biophysics (4)	
PHYS		
BIOL	403	Foundations of Structural Biology (4)
BIOL	408	Nanobiotechnology (3)
BIOL	421	Virology (3)
BIOL	422	Molecular Plant Physiology (4)
BIOL	423	Cellular & Molecular Neurobiology (3)
BIOL	424	Human Physiology (3)
BIOL	425	Human Genetics (3)
BIOL	428	Biology of Cancer (3)
BIOL	431*	Bioinformatics, GE-B2, B4, UDID (4)
MGT	471	Project Management (3)
BIOL	503	Biotechnology Law and Regulation (3)

### Required Supporting and Other GE Courses (63 Units)

- Chemistry (14 units)
 

CHEM	121*	General Chemistry I, GE-B1 (4)
CHEM	122	General Chemistry II, GE-B1 (4)
CHEM	311	Organic Chemistry I (3)
CHEM	318	Biological Chemistry (3)

*(An organic chemistry taken at a community college may be accepted for the Biology major in lieu of CHEM 311)*
- Statistics, Mathematics and Computer Applications (7 units)
 

BIOL	203*	Quantitative Methods for Biology, GE-B3, B4 (3)
MATH	150*	Calculus I, GE-B3 (4)
- Other Required GE Courses in Categories A-E (36 units)
 

Category A	(9 units)
Category C	(12 units)
Category D	(12 units)
Category E	(3 units)
- American Institutions Requirement (6 units)

## FOR EMPHASIS IN CELL AND MOLECULAR BIOLOGY

### Upper Division Requirements in the Major (40 Units)

1. Required Biology Courses (31 units)
  - BIOL 300 Cell Biology (4)
  - BIOL 301 Microbiology (4)
  - BIOL 302 Genetics (4)
  - BIOL 303 Evolutionary Biology (3)
  - BIOL 400 Molecular Biology (4)
  - BIOL 401 Biotechnology and Recombinant DNA Techniques (5)
  - BIOL 431\* Bioinformatics, GE-B2, B4, UDID (4)
  - BIOL 499 Senior Capstone in Biology (3)
2. Electives in Biology (9 units)  
*Select from the following list of courses:*
  - BIOL 402 Toxicology (3)
  - BIOL 403 Foundations of Structural Biology (4)
  - BIOL 404 Plant and Animal Tissue Culture (3)
  - BIOL 405 Biochemical Engineering (4)
  - BIOL 408 Nanobiotechnology (3)
  - BIOL / 416 Radiobiology and Radionuclides (3)
  - PHYS
  - BIOL 420 Cellular & Molecular Immunology (4)
  - BIOL 421 Virology (3)
  - BIOL 422 Molecular Plant Physiology (4)
  - BIOL 423 Cellular & Molecular Neurobiology (3)
  - BIOL 424 Human Physiology (3)
  - BIOL 425 Human Genetics (3)
  - BIOL 427 Developmental Biology (4)
  - BIOL 428 Biology of Cancer (3)
  - BIOL 432\* Principles of Epidemiology and Environmental Health, GE-B2, D, UDID (3)
  - BIOL 433\* Ecology and the Environment, GE-B2, UDID (4)*No more than 2 units taken from the following:*
  - BIOL 492 Internship (2-3)
  - BIOL 494 Independent Research (1-3)
  - BIOL 497 Directed Study (1-3)

### Required Supporting and Other GE Courses (72 Units)

1. Chemistry (minimum 15 units)
  - CHEM 121\* General Chemistry I, GE-B1 (4)
  - CHEM 122 General Chemistry II GE-B1 (4)
  - CHEM 311 Organic Chemistry I (3)
  - CHEM 312 Organic Chemistry I Laboratory (1)*Select either*
  - CHEM 318 Biological Chemistry (3)*or*
  - CHEM 314 Organic Chemistry II (3)
  - CHEM 315 Organic Chemistry II Laboratory (1)*(A year-long organic chemistry sequence with laboratory taken at a community college may be accepted for the Biology major in lieu of CHEM 311, 312, 314, 315.)*

2. Physics (8 units)  
*Select either*
  - PHYS 100 Introduction to Physics I, GE-B1 (4)*and*
  - PHYS 101 Introduction to Physics II, GE-B1 (4)*or*
  - PHYS 200 General Physics I, GE-B1 (4)*and*
  - PHYS 201 General Physics II, GE-B1 (4)
3. Statistics and Mathematics (7 units)
  - BIOL 203\* Quantitative Methods for Biology, GE-B3, B4 (3)
  - MATH 150\* Calculus I, GE-B3 (4)
4. Other Required GE Courses in Categories A-E (36 units)
  - Category A (9 units)
  - Category C (12 units)
  - Category D (12 units)
  - Category E (3 units)
5. American Institutions Requirement (6 units)

## FOR EMPHASIS IN ECOLOGY, EVOLUTION AND ORGANISMAL BIOLOGY

### Upper Division Requirements in the Major (42-44 Units)

1. Required Core Courses (26 units)
  - BIOL 301 Microbiology (4)
  - BIOL 302 Genetics (4)
  - BIOL 303 Evolutionary Biology (3)
  - BIOL 311 Plant Biology and Ecology (4)*and*
  - BIOL 310 Vertebrate Biology (4)*or*
  - BIOL 316 Invertebrate Zoology (4)*and*
  - BIOL 433\* Ecology and the Environment, GE- B2, UDID (4)
  - BIOL 499 Senior Capstone in Biology (3)
2. Ecology/Evolution  
*Select two courses from the following list (6-7 units):*
  - BIOL/ 313 Conservation Biology (4)
  - ESRM
  - ESRM 352 Theory and Practice of Ecological Restoration (3)
  - BIOL 406 Evolutionary Biogeography (3)
  - BIOL 407 Behavioral Ecology (3)
3. Organismal Biology  
*Select one course from the following list (4 units):*
  - BIOL 310 Vertebrate Biology (4) (if not taken as part of core)
  - BIOL 312 Marine Biology (4)
  - BIOL 316 Invertebrate Zoology (4) (if not taken as part of core)

- BIOL 317 Parasitology (4)  
 BIOL 450 Ichthyology: The Biology of Fishes (4)  
 BIOL 451 Ornithology (4)

4. Physiology/Developmental/Molecular Biology  
*Select one course from the following list (3-4 units):*  
 BIOL 300 Cell Biology (4)  
 BIOL 304 Comparative Animal Physiology (3)  
 BIOL 400 Molecular Biology (4)  
 BIOL 422 Molecular Plant Physiology (4)  
 BIOL 427 Developmental Biology (4)
5. Cross-Disciplinary  
*Select one course from the following list (3-4 units):*  
 CHEM 301 Environmental Chemistry (3)  
 GEOL 321 Environmental Geology, GE-B1 (4)  
 ESRM 328 Introduction to Geographic Information Systems (3)

### Required Supporting and Other GE Courses (63 Units)

1. Required Supporting Courses (21 units)  
 CHEM 121\* General Chemistry I, GE-B1 (4)  
 CHEM 122 General Chemistry II, GE-B1 (4)  
 CHEM 311 Organic Chemistry I (3)  
 GEOL 122\* Historical Geology, GE-B1 (3)  
 BIOL 203\* Quantitative Methods for Biology, GE-B3, B4 (3)  
 MATH 150\* Calculus I, GE-B3 (4)  
*(An organic chemistry taken at a community college may be accepted for the Biology major in lieu of CHEM 311)*
2. Other Required GE Courses in Categories A-E (36 units)  
 Category A (9 units)  
 Category C (12 units)  
 Category D (12 units)  
 Category E (3 units)
3. American Institutions Requirement (6 units)

### Electives in Any Discipline (4-7 units)

## FOR EMPHASIS IN MEDICAL IMAGING

### Additional Lower Division Requirements in the Major (8 Units)

- BIOL 210 Human Anatomy and Physiology I (4)  
 BIOL 211 Human Anatomy and Physiology II (4)

### Upper Division Requirements in the Major (38 Units)

1. Required Biology and Physics Courses (30 units)  
 BIOL 300 Cell Biology (4)  
 BIOL 301 Microbiology (4)  
 BIOL 302 Genetics (4)  
 BIOL 400 Molecular Biology (4)  
 BIOL/ 416 Radiobiology and Radionuclides (3)  
 PHYS 434\* Introduction to Biomedical Imaging, HLTH/ PHYS GE-B1, E, UDID (4)  
 BIOL/ 464 Biomedical Instrumentation (4)  
 PHYS 499 Senior Capstone in Biology (3)
2. Electives in Biology and Physics (8 units)  
*Select from the following list of courses:*  
 BIOL/ 315 Introduction to Biophysics (4)  
 PHYS 401 Biotechnology and Recombinant DNA Techniques (5)  
 BIOL 420 Cellular & Molecular Immunology (4)  
 BIOL 421 Virology (3)  
 BIOL 423 Cellular & Molecular Neurobiology (3)  
 BIOL 424 Human Physiology (3)  
 BIOL 425 Human Genetics (3)  
 BIOL 427 Developmental Biology (4)  
 BIOL 428 Biology of Cancer (3)  
 BIOL 431\* Bioinformatics, GE-B2, B4, UDID (4)  
 BIOL 432\* Principles of Epidemiology and Environmental Health, GE-B2, D, UDID (3)  
 BIOL 433\* Ecology and the Environment, GE-B2, UDID (4)  
 PHYS 445\* Image Analysis and Pattern Recognition, GE-B1, B4, UDID (3)  
*No more than 2 units taken from the following:*  
 PHYS 492 Physics Internship (3)  
 BIOL 494 Independent Research (1-3)  
*or*  
 PHYS 494 Independent Research (1-3)  
 BIOL 497 Directed Study (1-3)  
*or*  
 PHYS 497 Directed Study (1-3)



## Required Supporting and Other GE Courses (66 Units)

1. Chemistry (15 units)
    - CHEM 121\* General Chemistry I, GE-B1 (4)
    - CHEM 122 General Chemistry II (4)
    - CHEM 311 Organic Chemistry I (3)
    - CHEM 312 Organic Chemistry I Laboratory (1)
    - CHEM 318 Biological Chemistry (3)
    - (An organic chemistry I-equivalent course with laboratory taken at a community college may be accepted for the Biology major in lieu of CHEM 311 and 312.)*
  2. Mathematics (4 units)
    - MATH 150\* Calculus I, GE-B3 (4)
  3. Physics (8 units)
    - Select either**
    - PHYS 100 Introduction to Physics I, GE-B1 (4)
    - and**
    - PHYS 101 Introduction to Physics II, GE-B1 (4)
    - or**
    - PHYS 200 General Physics I, GE-B1 (4)
    - and**
    - PHYS 201 General Physics II, GE-B1 (4)
  4. Other Required GE Courses in Categories A-D (33 units)
    - Category A (9 units)
    - Category C (12 units)
    - Category D (12 units)
    - Category E- covered by a required GE course for the degree program
  5. American Institutions Requirement (6 units)
- (Courses with \* are double-counted toward GE credits.)*

## REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN BIOLOGY (120 UNITS)

### Common Lower Division Requirements for All Emphases (8 Units)

- BIOL 200\* Principles of Organismal and Population Biology, GE-B2 (4)
- BIOL 201 Principles of Cell and Molecular Biology (4)

### FOR EMPHASIS IN ECOLOGY, EVOLUTION AND ORGANISMAL BIOLOGY

### Upper Division Requirements in the Major (36-38 Units)

1. Required Biology Core Courses (26 units)
  - BIOL 301 Microbiology (4)
  - BIOL 302 Genetics (4)
  - BIOL 303 Evolutionary Biology (3)
  - BIOL 311 Plant Biology and Ecology (4)
  - BIOL 310 Vertebrate Biology (4) **or**
  - BIOL 316 Invertebrate Zoology (4)
  - BIOL 433\* Ecology and the Environment, GE- B2, UDID (4)
  - BIOL 499 Senior Capstone (3)
2. Ecology/Evolution
  - Select one course from the following list (3-4 units):*
  - BIOL/ 313 Conservation Biology (4)
  - ESRM
  - BIOL 406 Evolutionary Biogeography (3)
  - BIOL 407 Behavioral Ecology (3)
3. Organismal Biology
  - Select one course from the following list (4 units):*
  - BIOL 310 Vertebrate Biology (4) *(if not taken as part of core)*
  - BIOL 312 Marine Biology (4)
  - BIOL 316 Invertebrate Zoology (4) *(if not taken as part of core)*
  - BIOL 317 Parasitology (4)
  - BIOL 450 Ichthyology: The Biology of Fishes (4)
  - BIOL 451 Ornithology (4)
4. Physiology/Developmental/Molecular Biology
  - Select one course from the following list (3-4 units)*
  - BIOL 300 Cell Biology (4)
  - BIOL 304 Comparative Animal Physiology (3)
  - BIOL 400 Molecular Biology (4)
  - BIOL 422 Molecular Plant Physiology (4)
  - BIOL 427 Developmental Biology (4)

## Required Supporting and Other GE Courses (56 Units)

1. Required Supporting Courses (14 units)
  - CHEM 121\* General Chemistry I, GE-B1 (4)
  - CHEM 122 General Chemistry II, GE-B2 (4)
  - GEOL 122\* Historical Geology, GE-B1 (3)
  - BIOL 203\* Quantitative Methods for Biology, GE-B3, B4 (3)
2. Other Required GE Courses in Categories A-E (36 units)
  - Category A (9 units)
  - Category C (12 units)
  - Category D (12 units)
  - Category E (3 units)
3. American Institutions Requirement (6 units)

## Electives in Any Discipline (18-20 units)

### FOR EMPHASIS IN GENERAL BIOLOGY

#### Upper Division Requirements in the Major (37 Units)

1. Required Biology Courses (25 units)
  - BIOL 300 Cell Biology (4)
  - BIOL 302 Genetics (4)
  - BIOL 303 Evolutionary Biology (3)
  - BIOL 304 Comparative Animal Physiology (3)
  - BIOL 400 Molecular Biology (4)
  - BIOL 433\* Ecology and the Environment, GE-B2, UDID (4)
  - BIOL 499 Senior Capstone in Biology (3)
2. Electives in Biology (12 units)
 

*Select at least three courses from the following list, one of which must be a lab course.*

  - BIOL 301 Microbiology (4)
  - BIOL 310 Vertebrate Biology (4)
  - BIOL 311 Plant Biology and Ecology (4)
  - BIOL 312 Marine Biology (4)
  - BIOL/ESRM 313 Conservation Biology (4)
  - BIOL 316 Invertebrate Zoology (4)
  - BIOL 317 Parasitology (4)
  - BIOL 401 Biotechnology and Recombinant DNA Techniques (5)
  - BIOL 402 Toxicology (3)
  - BIOL 403 Foundations of Structural Biology (4)
  - BIOL 404 Plant and Animal Tissue Culture (3)
  - BIOL 405 Biochemical Engineering (4)
  - BIOL 406 Evolutionary Biogeography (3)
  - BIOL 407 Behavioral Ecology (3)
  - BIOL 408 Nanobiotechnology (3)
  - BIOL 420 Cellular & Molecular Immunology (4)
  - BIOL 421 Virology (3)
  - BIOL 422 Molecular Plant Physiology (4)
  - BIOL 423 Cellular & Molecular Neurobiology (3)

- BIOL 424 Human Physiology (3)
  - BIOL 425 Human Genetics (3)
  - BIOL 427 Developmental Biology (4)
  - BIOL 428 Biology of Cancer (3)
  - BIOL 431\* Bioinformatics, GE-B2, B4, UDID (4)
  - BIOL 432\* Principles of Epidemiology and Environmental Health, GE-B2, D, UDID (3)
  - BIOL 450 Ichthyology: The Biology of Fishes (4)
  - BIOL 451 Ornithology (4)
- No more than 2 units taken from the following:*
- BIOL 492 Internship (2-3)
  - BIOL 494 Independent Research (1-3)
  - BIOL 497 Directed Study (1-3)

## Required Supporting and Other GE Courses (53-54 Units)

1. Chemistry (8 units)
  - CHEM 121\* General Chemistry I, GE-B1 (4)
  - CHEM 122 General Chemistry II, GE-B1 (4)
2. Mathematics and Statistics (3-4 units)
 

*Select one of the following:*

  - BIOL 203\* Quantitative Methods for Biology, GE-B3, B4 (3)
  - MATH 105 Pre-Calculus (4)
  - MATH 150\* Calculus I, GE-B3 (4)
3. Other Required GE Courses in Categories A-E (36 units)
  - Category A (9 units)
  - Category C (12 units)
  - Category D (12 units)
  - Category E (3 units)
4. American Institutions Requirements (6 units)

## Electives in Any Discipline (21-22 units)

### FOR EMPHASIS IN PRE-PROFESSIONAL STUDIES

#### Upper Division Requirements in the Major (32 Units)

1. Required Biology Courses (21-22 units)
  - BIOL 300 Cell Biology (4)
  - BIOL 302 Genetics (4)
  - BIOL 304 Comparative Animal Physiology (3)
  - BIOL 400 Molecular Biology (4)

*Select one of the following:*

  - BIOL 303 Evolutionary Biology (3)
  - BIOL 433\* Ecology and the Environment, GE-B2, UDID (4)

*and*

  - BIOL 499 Senior Capstone in Biology (3)
2. Electives in Biology (10-11 units)
 

*Select at least three courses from the following list, one of which must be a lab course.*

  - BIOL 301 Microbiology (4)
  - BIOL 310 Vertebrate Biology (4)

BIOL	311	Plant Biology and Ecology (4)
BIOL	312	Marine Biology (4)
BIOL/ ESRM	313	Conservation Biology (4)
BIOL	316	Invertebrate Zoology (4)
BIOL	317	Parasitology (4)
BIOL	401	Biotechnology and Recombinant DNA Techniques (5)
BIOL	402	Toxicology (3)
BIOL	403	Foundations of Structural Biology (4)
BIOL	404	Plant and Animal Tissue Culture (3)
BIOL	405	Biochemical Engineering (4)
BIOL	406	Evolutionary Biogeography (3)
BIOL	407	Behavioral Ecology (3)
BIOL	408	Nanobiotechnology (3)
BIOL	420	Cellular & Molecular Immunology (4)
BIOL	421	Virology (3)
BIOL	422	Molecular Plant Physiology (4)
BIOL	423	Cellular & Molecular Neurobiology (3)
BIOL	424	Human Physiology (3)
BIOL	425	Human Genetics (3)
BIOL	427	Developmental Biology (4)
BIOL	428	Biology of Cancer (3)
BIOL	431*	Bioinformatics, GE-B2, B4, UDID (4)
BIOL	432*	Principles of Epidemiology and Environmental Health, GE-B2, D, UDID (3)
BIOL	450	Ichthyology: The Biology of Fishes (4)
BIOL	451	Ornithology (4)
<i>No more than 2 units taken from the following:</i>		
BIOL	492	Internship (2-3)
BIOL	494	Independent Research (1-3)
BIOL	497	Directed Study (1-3)

### Required Supporting and Other GE Courses (69-70 Units)

- Chemistry (16 units)
  - CHEM 121\* General Chemistry I, GE-B1 (4)
  - CHEM 122 General Chemistry II GE-B1 (4)
  - CHEM 311 Organic Chemistry I (3)
  - CHEM 312 Organic Chemistry I Laboratory (1)
  - CHEM 314 Organic Chemistry II (3)
  - CHEM 315 Organic Chemistry II Laboratory (1)
  - (A year-long organic chemistry sequence with laboratory taken at a community college may be accepted for the Biology major in lieu of CHEM 311, 312, 314, 315)*
- Mathematics and Statistics (3-4 units)
  - Select one of the following:*
  - BIOL 203\* Quantitative Methods for Biology, GE-B3, B4 (3)
  - MATH 150\* Calculus I, GE-B3 (4)
  - (Check with professional schools or pre-professional advisor for specific requirements in this category.)*
- Physics (8 units)
  - PHYS 100 Introduction to Physics I, GE-B1 (4)
  - PHYS 101 Introduction to Physics II, GE-B1 (4)

- Other Required GE Courses in Categories A-E (36 units)
  - Category A (9 units)
  - Category C (12 units)
  - Category D (12 units)
  - Category E (3 units)

- American Institutions Requirements (6 units)

### Electives in Any Discipline (10-11 Units)

### FOR EMPHASIS IN SUBJECT MATTER PREPARATION IN TEACHING BIOLOGY

### Upper Division Requirements in the Major (36 Units)

- Required Biology Courses (24 units)
  - BIOL 300 Cell Biology (4)
  - BIOL 302 Genetics (4)
  - BIOL 303 Evolutionary Biology (3)
  - BIOL 304 Comparative Animal Physiology (3)
  - BIOL 335\* The Biosphere, GE-B2, UDID (3)
  - BIOL 433\* Ecology and the Environment, GE-B2, UDID (4)
  - BIOL 499 Senior Capstone in Biology(3)
- Electives in Biology (12 units)
  - Select at least three courses from the following list, one of which must be a lab course.*
  - BIOL 301 Microbiology (4)
  - BIOL 310 Vertebrate Biology (4)
  - BIOL 311 Plant Biology and Ecology (4)
  - BIOL 312 Marine Biology (4)
  - BIOL/  
ESRM 313 Conservation Biology (4)
  - BIOL 316 Invertebrate Zoology (4)
  - BIOL 317 Parasitology (4)
  - BIOL 400 Molecular Biology (4)
  - BIOL 401 Biotechnology and Recombinant DNA  
Techniques (5)
  - BIOL 402 Toxicology (3)
  - BIOL 403 Foundations of Structural Biology (4)
  - BIOL 404 Plant and Animal Tissue Culture (3)
  - BIOL 405 Biochemical Engineering (4)
  - BIOL 406 Evolutionary Biogeography (3)
  - BIOL 407 Behavioral Ecology (3)
  - BIOL 408 Nanobiotechnology (3)
  - BIOL 420 Cellular & Molecular Immunology (4)
  - BIOL 421 Virology (3)
  - BIOL 422 Molecular Plant Physiology (4)
  - BIOL 423 Cellular & Molecular Neurobiology (3)
  - BIOL 424 Human Physiology (3)
  - BIOL 425 Human Genetics (3)
  - BIOL 427 Developmental Biology (4)
  - BIOL 428 Biology of Cancer (3)
  - BIOL 431\* Bioinformatics, GE-B2, B4, UDID (4)
  - BIOL 432\* Principles of Epidemiology and  
Environmental Health, GE-B2, D,  
UDID (3)

- BIOL 450 Ichthyology: The Biology of Fishes (4)  
 BIOL 451 Ornithology (4)  
*No more than 2 units taken from the following:*  
 BIOL 492 Internship (2-3)  
 BIOL 494 Independent Research (1-3)  
 BIOL 497 Directed Study (1-3)

### Required Supporting and Other GE Courses (76 units)

1. Required Education Course (3 units)  
 EDUC 330\* Introduction to Secondary Schooling,  
 GE-D, UDID (3)
  2. Mathematics and Statistics (7 units)  
 BIOL 203\* Quantitative Methods for Biology, GE-  
 B3, B4 (3)  
*and*  
 MATH 105 Pre-Calculus (4)  
*or*  
 MATH 150\* Calculus I, GE-B3 (4)
  3. Physical Sciences (24 units)  
 CHEM 121\* General Chemistry I, GE-B1 (4)  
 CHEM 122 General Chemistry II, GE-B1 (4)  
 GEOL 121 Physical Geology (4)  
 PHYS 100 Introduction to Physics I, GE-B1 (4)  
 PHYS 101 Introduction to Physics II, GE-B1 (4)  
 PHYS/ 105 Introduction to the Solar System, GE-  
 ASTR B1 (4)
  4. Other Required GE Courses in Categories A-E (36 units)  
 Category A (9 units)  
 Category C (12 units)  
 Category D (12 units)  
 Category E (3 units)
  5. American Institutions Requirements (6 units)
- (Courses with \* are double-counted toward GE credits.)*

## REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN BIOTECHNOLOGY & BIOINFORMATICS (33-34 UNITS)

### PROGRAM DESCRIPTION

The Master of Science in Biotechnology and Bioinformatics is a professional degree program designed to meet the needs of biotechnology industry and related public and private agencies and organizations. The program combines rigorous scientific training in interdisciplinary areas in biotechnology and bioinformatics with course work and experience in business management and regulatory affairs. The program includes a set of core courses with two emphases to choose from: biotechnology and bioinformatics, and several elective courses.

Biotechnology is centered in the laboratory and employs sophisticated molecular biology techniques for applications in human and animal health, agriculture, environment, and specialty biochemical manufacturing. In the next century, the major driving force for biotechnology will be the strategic use of the data derived from large-scale genome sequencing projects. Bioinformatics turns raw data from genome sequencing and new experimental methodologies such as microarrays and proteomics into useful and accessible information about gene function, protein structure, molecular evolution, drug targets and disease mechanisms using computational analyses, statistics, and pattern recognition. Our approach also includes team projects drawn from biotechnology industries to focus on real-world problems and applications of biological and computational sciences and to inculcate interpersonal as well as problem-solving skills using multiple perspectives.

Graduates from this program will develop analytical, managerial and interpersonal skills along with sophisticated expertise in biotechnology and bioinformatics. They will be ready to make immediate contributions to scientific research and development, management in biotechnological, biomedical and pharmaceutical industries, biotechnology law and regulations, governmental or environmental agencies, research institutes, consulting firms, research and clinical laboratories, private and public health organizations, or education.

### ADMISSION REQUIREMENTS

1. Applicants must have a BS/BA degree in Biology, Computer Science, Chemistry, Biochemistry, or Mathematics. Alternatively, applicants with a BA/BS degree in any field and equivalent work experiences in one of the above fields may be granted conditional admission, and they must fulfill all conditional requirements before they can be fully classified.
2. Applicants seeking admission to the professional MS in Biotechnology and Bioinformatics program must be officially accepted into the CSUCI academic program.



3. Applicants must declare themselves as graduate students in the professional MS degree program in Biotechnology and Bioinformatics.
4. Applicants will be evaluated by the program admissions committee which will consider the applicants in the context of the total applicant pool using our general admission standards. The following materials are required for our evaluation and admission process:
  - Applicants must submit their transcript from their undergraduate institution, Graduate Record Examinations (GRE) General Test scores or the Medical College Admission Test (MCAT) scores.
  - Applicants who have received their undergraduate degrees from a university where English is not the language of instruction, or have studied fewer than two years at a university where instruction is in English, must submit their Test of English as a Foreign Language (TOEFL) scores for evaluation.
  - Applicants must submit a one page "Statement of Purpose" and two letters of recommendations from people able to judge the applicant's capacity for both academic and professional success.

## DEGREE REQUIREMENTS

### Common Core Courses (16 units)

BINF	500	DNA & Protein Sequence Analysis (3)
BIOL	502	Techniques in Genomics & Proteomics (2)
BIOL	503	Biotechnology Law and Regulation (3)
MGT	471	Project Management (3)
BIOL	600	Team Project (4)
BIOL	601	Seminar Series in Biotechnology and Bioinformatics (1)

### FOR BIOTECHNOLOGY EMPHASIS (17 UNITS)

#### Required Courses (7 units)

BIOL	504	Molecular Cell Biology (3)
BIOL	505	Molecular Structure (4)

#### Electives (10 units)

*A minimum of 10 units chosen from the following courses and/or from the elective courses under the Bioinformatics Emphasis:*

BIOL	506	Molecular Evolution (4)
BIOL	507	Pharmacogenomics and Pharmacoproteomics (3)
BIOL	508	Advanced Immunology (4)
BIOL	509	Plant Biotechnology (4)
MGT	421	Human Resource Management (3)
BIOL	490	Special Topics (1-3)

### FOR BIOINFORMATICS EMPHASIS (18 UNITS)

#### Required Courses (12 units)

BINF	501	Biological Informatics (3)
BINF	510	Database Systems for Bioinformatics (3)
BINF	511	Computational Genomics (3)
BINF	513	Programming for Bioinformatics (3)

## Electives (6 units)

*A minimum of two courses chosen from the following and/or from the elective courses under the Biotechnology Emphasis, with at least one course in the BINF category:*

BINF	512	Algorithms for Bioinformatics (3)
BINF	514	Statistical Methods in Computational Biology (3)
PHYS	445	Image Analysis & Pattern Recognition (3)
COMP/MATH	GE-B1, B4, UDID	(3)
MGT	421	Human Resource Management (3)
BIOL	490	Special Topics (1-3)

## REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN BIOTECHNOLOGY AND MASTER OF BUSINESS ADMINISTRATION (71 UNITS\*)

\*Assumes that at least one set of the Foundation Courses listed below has been completed in a business or science undergraduate degree program.

## PROGRAM DESCRIPTION

The Master of Science in Biotechnology and Master of Business Administration is a dual professional degree program designed to meet the needs of biotechnology industry and related public and private agencies and organizations. The program combines rigorous scientific training in biotechnology with graduate course work and experience in business management and regulatory affairs. The program includes the foundation courses for the dual degree program, a set of graduate level core courses in both biotechnology and business, and several elective courses.

Our approach includes team projects drawn from biotechnology industries to focus on real-world problems and applications of biological sciences and business. We approach interpersonal skills and problem-solving skills from multiple perspectives.

## ADMISSION REQUIREMENTS

1. Applicants must have a BS/BA. degree in Biology, Chemistry, Biochemistry, or Business/ Economics related discipline. Alternatively, applicants with a BA/BS degree in any field and equivalent work experiences in one of the above fields may be admitted and must fulfill the foundation course requirements before taking the core courses and electives in the degree program.
2. Applicants seeking admission to the dual degree program must be officially accepted into CSUCI as graduate students.
3. Applicants must declare themselves as graduate students in the dual degree program.
4. Applicants will be evaluated by the program admissions committee which will consider the applicants in the context of the total applicant pool using our general admission standards. The following materials are required for our evaluation and admission process:

- Applicants must submit their transcript(s) from their undergraduate institution(s) and Graduate Record Examinations (GRE) General Test scores.
- Applicants who have received their undergraduate degrees from a university where English is not the language of instruction, or have studied fewer than two years at a university where instruction is in English, must submit their Test of English as a Foreign Language (TOEFL) scores.
- Applicants must submit a one page "Statement of Purpose" and two letters of recommendations from people able to judge the applicant's capacity for both academic and professional success.

## DEGREE REQUIREMENTS

### Required Foundation Courses (16 Units)

1. Required Foundation Courses in Biology and Chemistry for students without a B.S. in Biology or Chemistry (16 units)
  - CHEM 110 Chemistry of Life (4)
  - BIOL 201 Principles of Cell and Molecular Biology (4)
  - BIOL 300 Cell Biology (4)
  - BIOL 400 Molecular Biology (4)
2. Required Foundation Courses in Business/Economics for students without a BS/BA in Business or Economics or a related discipline (16 units)
  - BUS 500 Economics for Managers (3)
  - BUS 502 Quantitative Methods for Decision-Making (3)
  - BUS 504 Introduction to Accounting and Finance (4)
  - BUS 506 Principles of Management and Marketing (3)
  - BUS 508 Business Ethics and Law (3)

## CORE COURSES

### Common Required Courses in the Dual Degree Program (9 Units)

- MGT 471 Project Management (3)
- BIOL/ 610 Capstone Project for MS/MBA Dual Degree (6)

### Required Courses in the Master of Science in Biotechnology (22 Units)

1. Required Core Courses (15 units)
  - BINF 500 DNA & Protein Sequence Analysis (3)
  - BIOL 502 Techniques in Genomics/Proteomics (2)
  - BIOL 503 Biotechnology Law and Regulation (3)
  - BIOL 504 Molecular Cell Biology (3)
  - BIOL 510 Tissue Culture Techniques and Stem Cell Technology (3)
  - BIOL 601 Seminar in Biotechnology and Bioinformatics (1)

### 2. Elective Courses (7 units)

*A minimum of seven units from the following courses:*

- BIOL 505 Molecular Structure (4)
- BIOL 507 Pharmacogenomics and Pharmacoproteomics (3)
- BIOL 508 Advanced Immunology (4)
- BIOL 509 Plant Biotechnology (4)

### Required Courses in the Master of Business Administration (24 Units)

#### 1. Required Core Courses (18 units)

- BUS 510 High Performance Management (3)
- BUS 520 Strategy and Leadership (3)
- BUS 530 Managing Business Operations (3)
- BUS 540 Financial Reporting and Analysis (3)
- BUS 550 The Contemporary Firm (3)
- BUS 560 The Entrepreneurial Manager (3)

#### 2. Elective Courses (6 units)

*Double-counted courses:*

- BINF 500 DNA & Protein Sequence Analysis (3)
- BIOL 503 Biotechnology Law and Regulation (3)

## REQUIREMENTS FOR THE MINOR IN BIOLOGY (21 UNITS)

### LOWER DIVISION REQUIREMENTS (8 UNITS)

- BIOL 200\* Principles of Organismal and Population Biology, GE-B2 (4)
- BIOL 201 Principles of Cell and Molecular Biology, GE-B2 (4)

### UPPER DIVISION REQUIREMENTS (13 UNITS)

1. Biology (8 units)
  - BIOL 300 Cell Biology (4)
  - BIOL 302 Genetics (4)

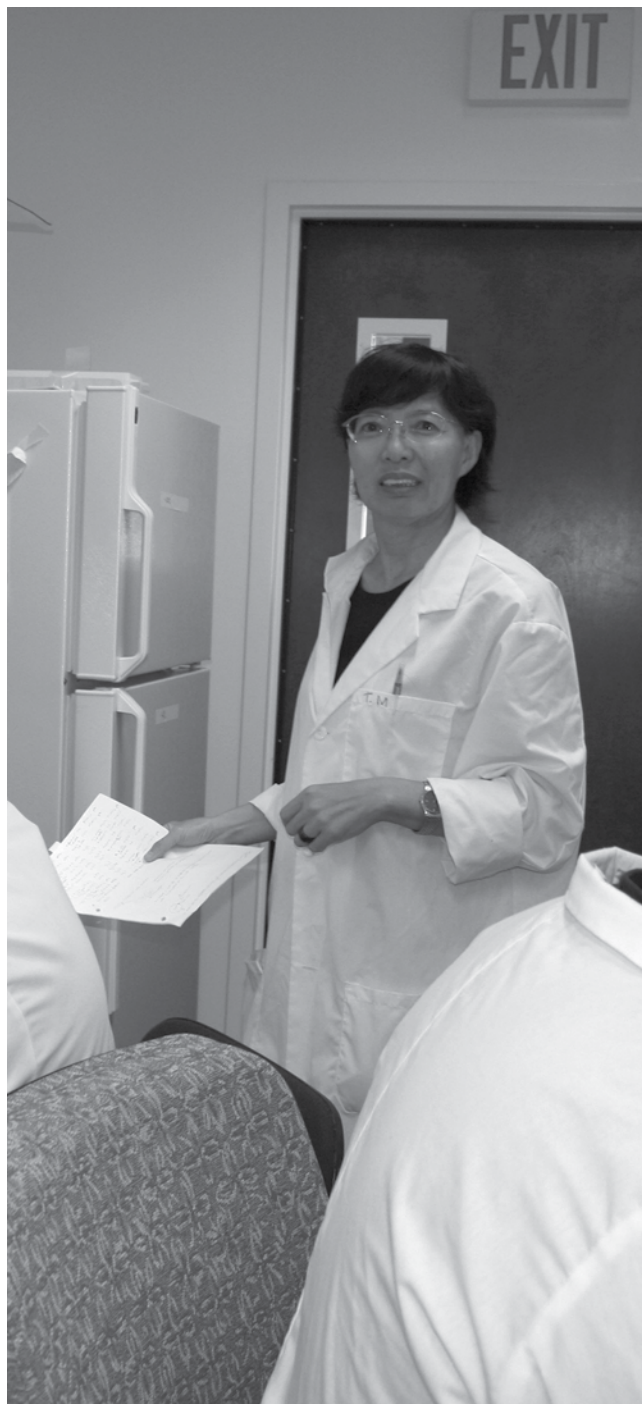
#### 2. Biology Electives (5 units)

A minimum of 5 units of 300-400 level biology courses, with no more than one course selected from BIOL 331-345.

## REQUIREMENTS FOR THE CERTIFICATE IN BIOTECHNOLOGY (25-27 UNITS)

(For students with a B.S. degree in biology pursuing a certificate in biotechnology)

1. B.S. degree in biology (may be concurrent);
2. Completion of the following courses with C or better grades (16-17 units):
  - BIOL 401 Biotechnology and Recombinant DNA Techniques (5)
  - BIOL 420 Cellular & Molecular Immunology (4)
  - BIOL 431 Bioinformatics (4)
  - CHEM 318 Biological Chemistry (3)
  - or*
  - CHEM 460 Biochemistry I (4)
3. Complete another 4 units of upper-division biology course in consultation with the program (4);
4. Complete BIOL 492 Internship (2-3 units);
5. Complete BIOL 499 Senior Capstone in Biology (3 units);
6. Approval by the Biology program.



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## MARTIN V. SMITH SCHOOL OF BUSINESS AND ECONOMICS

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### PROGRAMS OFFERED

- Bachelor of Arts in Economics
- Bachelor of Science in Business
  - Emphasis in Entrepreneurship
  - Emphasis in Finance
  - Emphasis in Global Business
  - Emphasis in Management
  - Emphasis in Marketing
- Minor in Business Management
- Minor in Economics
- Certificate in Business Administration
- Master of Business Administration (MBA)

The Business and Economics Program has a liberal arts and interdisciplinary focus. It is built on the three Cs: critical thinking, collaboration (working with others), and communication (oral and written English). Students learn the fundamental principles of accounting, economics, finance, information systems, management, and marketing as applied in a variety of organizational settings. A distinguishing aspect of the Business and Economics Program is the requirement to take courses developed in conjunction with disciplines outside the traditional business curriculum. Examples include courses with Biology, Chemistry, Education, English, Fine Arts, and History.

In addition, a Capstone Course provides students with the opportunity to integrate their knowledge through a Global Strategy Simulation exercise. To foster an integrative and cross disciplinary experience in a relevant business area, students are required to select one of five emphases: Entrepreneurship, Finance, Global Business, Management, and Marketing. All emphases draw on upper-division courses from accounting, economics, management and marketing to offer an in-depth perspective into five critical areas of business. We anticipate enhancing the curriculum with additional emphasis choices as the program grows.

The Bachelor of Arts in Economics focuses on the integration of core economic analysis with relevant interdisciplinary applications. The degree develops analytical tools and communication skills in the context of economic theory and its linkages to a broad array of human decisions. Economics, as a social science, seeks to explain and predict the behavior of consumers, producers, managers, government officials and citizens by examining the interactions of incentives and constraints in an environment of ever-present scarcity of time, skills and resources. Microeconomics focuses on the choices of individuals and firms, as well as their role in the marketplace, while macroeconomics aggregates economic activity to the national level to analyze

MARTIN V. SMITH



SCHOOL of  
BUSINESS &  
ECONOMICS

trends and fluctuations in overall economic activity. The Bachelor of Arts in Economics program offers flexibility and opportunity through its emphases: general, environmental resource, international, managerial or quantitative economics. These emphases allow students to pursue specific interests and maximize connections to disciplines related to economics.

### CAREERS

The Martin V. Smith School of Business and Economics program prepares students to work in a variety of organizations—both public and private. The Bachelor of Science degree prepares students for several types of graduate and professional school studies: MBA, MPA, law school.

### PROGRAM LEARNING OUTCOMES FOR BUSINESS AND ECONOMICS

- Prepare students for employment in a variety of public and private organizations.
- Prepare students for further study in graduate or professional schools.
- Demonstrate critical thinking skills by identifying, evaluating, synthesizing, and presenting issues related to accounting, economics, finance, information systems, management and marketing.
- Demonstrate communication skills by writing excellent reports and papers and making effective oral presentations in English.
- Demonstrate collaboration skills by working effectively with others in group settings - both inside and outside the classroom.

### FACULTY

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## CONTACT INFORMATION

<http://business.csuci.edu>

<http://econ.csuci.edu>

## REQUIREMENTS FOR THE BACHELOR OF ARTS IN ECONOMICS (120 UNITS)

Lower Division Required	9-10
Upper Division Required	16
Required Emphasis	15-20
General Education	48
American Institutions	6
Free Electives	20-26
Total	120

### LOWER DIVISION REQUIREMENTS (9-10 UNITS)

ECON	110	Principles of Microeconomics (3)
ECON	111	Principles of Macroeconomics (3)
MATH	140	Calculus for Business Applications (3)
<i>or</i>		
MATH	150	Calculus I (4)

### UPPER DIVISION REQUIREMENTS (16 UNITS)

ECON	310	Intermediate Microeconomics (3)
ECON	311	Intermediate Macroeconomics (3)
MATH	329	Statistics for Business and Economics (3)
<i>or</i>		
MATH	352	Probability and Statistics (3)
ECON	488	Applied Managerial Econometrics (4)
ECON	499	Capstone (3)

*Note: Students selecting the Quantitative Economics emphasis must take MATH 352 Probability and Statistics (3) instead of MATH 329.*

### REQUIRED EMPHASIS (15-20 UNITS)

Economics majors are required to complete one of the following five emphases:

#### 1. GENERAL ECONOMICS EMPHASIS

(15 units: 3 lower division and 12 upper division)

##### Lower Division

ACCT	210	Financial Accounting (3)
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##### Upper Division

A minimum of 4 upper division courses in economics (or approved courses outside of economics) as follows:

At least two courses must be taken from cross-disciplinary courses offered by economics (ECON 330-349 and 430-449).

A minimum of three economics courses at the 400 level are required.

ECON 300, 492, and 497 may not be taken to meet the requirements of the economics major.

## 2. ENVIRONMENTAL RESOURCE ECONOMICS EMPHASIS

(15 units: 3 lower division and 12 upper division)

### Lower Division

ESRM	100	Introduction to Environmental Science and Resource Management (3)
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### Upper Division

ECON	464	Natural Resource Economics(3)
ECON	400+	Elective Course (3)
ECON	362	Environmental Economics (3)

*or*

ESRM	329	Environmental Law and Policy (3)
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**Choose one of the following:**

ECON	400+	Elective Course (3)
ESRM	410	Environmental Impact Assessment (3)
ESRM	462	Coastal and Marine Management (3)
ESRM	463	Water Resources Management (3)
ESRM	464	Land Use Planning and Agricultural Management (3)
ESRM	482	Issues in Environmental Planning and Resource Management (3)
ESRM	483	Issues in Global Resource Management (3)

Econ 300, 492, and 497 may not be taken to meet the requirements of the economics major.

## 3. INTERNATIONAL ECONOMICS EMPHASIS

(20 units: 8 lower division and 12 upper division units)

### Lower Division

A minimum of 2 courses in the same foreign language or equivalent [for example, SPAN 101 (4) and 102 (4)].

*Note: This requirement represents one additional course beyond the CSUCI foreign language requirement.*

### Upper Division

A minimum of 4 upper division courses in economics (or approved courses outside of economics) as follows:

ECON	471	International Trade (3)
ECON	473	Economic Development (3)

**Choose two of the following:**

ECON	370	The World Economy (3)
ECON	472	International Macroeconomics (3)
ESRM	483	Issues in Global Resource Management (3)
POLS	328	United States Foreign Policy (3)

A minimum of three courses at the 400 level are required.

Econ 300, 492, and 497 may not be taken to meet the requirements of the economics major.

#### 4. MANAGERIAL ECONOMICS EMPHASIS

(15 units: 3 lower division and 12 upper division)

##### Lower Division

ACCT 210 Financial Accounting (3)

##### Upper Division

A minimum of 4 upper division courses in economics (or approved courses outside of economics) as follows:

FIN 300 Business Finance (3)

ECON 320 Money and Banking (3)

*or*

ECON 329 Managerial Economics (3)

ECON 471 International Trade (3)

*or*

ECON 472 International Macroeconomics (3)

At least one course must be taken from cross-disciplinary courses offered by economics (ECON 330-349 and 430-449).

A minimum of two economics courses at the 400 level are required.

Econ 300, 492, and 497 may not be taken to meet the requirements of the economics major.

*Note: Students selecting this emphasis must take either ECON 320 or 329, but may not take both courses for credit in the major.*

#### 5. QUANTITATIVE ECONOMICS EMPHASIS

(19 units: 10 lower division and 9 upper division)

##### Lower Division

MATH 151 Calculus II (4)

MATH 250 Calculus III (3)

MATH 240 Linear Algebra (3)

##### Upper Division

A minimum of 3 upper division courses in economics (or approved courses outside of economics) as follows:

At least one courses must be taken from cross-disciplinary courses offered by economics (ECON 330-349 and 430-449).

MATH 429 Operations Research (3) may be taken to meet this requirement.

A minimum of two economics courses at the 400 level are required. MATH 429 may be taken to meet this requirement.

Econ 300, 492, and 497 may not be taken to meet the requirements of the economics major.

*Note: To meet the calculus and statistics requirement, students selecting this emphasis must take MATH 150 and MATH 352.*

#### REQUIRED SUPPORTING AND OTHER GE COURSES (75-81 units)

General Education (48)

American Institutions (6)

Free Electives (21-27)

#### REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS (120 UNITS)

##### LOWER DIVISION REQUIREMENTS (21-22 UNITS)

ACCT 210 Financial Accounting (3)

ACCT 220 Managerial Accounting (3)

BUS 110 Business Law (3)

COMP 101 Computer Literacy (3)

ECON 110 Principles of Microeconomics (3)

ECON 111 Principles of Macroeconomics (3)

MATH 140 Calculus for Business Applications (3)

*or*

MATH 150 Calculus I (4)

##### UPPER DIVISION REQUIRED MAJOR COURSES (36 UNITS)

ACCT 300 Applied Managerial Accounting (3)

BUS 320 Business Operations (3)

MIS 310 Management Info Systems (3)

ECON 310 Intermediate Microeconomics (3)

*or*

ECON 329 Managerial Economics (3)

ECON 311 Intermediate Macroeconomics (3)

*or*

ECON 320 Money and Banking (3)

ENGL 483 Technical Visual Communication (3)

FIN 300 Business Finance (3)

MATH 329 Statistics for Business & Economics (3)

MGT 307 Management of Organizations (3)

MGT 326 Scientific and Professional Ethics (3)

MKT 310 Principles of Marketing (3)

BUS 499 Capstone (3)

##### UPPER DIVISION INTERDISCIPLINARY MAJOR COURSES (6 UNITS)

BUS 331 Biotechnology in the 21st Century (BIOL) (3)

BUS 334 The Business of Art (ART) (3)

BUS 340 Business and Economics in American Literature (ECON/ENGL) (3)

BUS 341 Drug Discovery & Development (ECON/CHEM) (3) (may double count in the Entrepreneur Emphasis)

BUS 342 The Zoo: Conservation, Education and Recreation (ECON/BIOL/EDUC) (3)

BUS 349 History of Business and Economics in North America (ECON/HIST) (3)

BUS 434 The Museum: Culture, Business & Education (ART/EDUC) (3)

ECON 343 Capital Theory (FIN) (3)

## EMPHASIS

Must Select 1 or 2 or 3 or 4 or 5 (15 units each)  
To complete the elective requirements indicated below, choose any upper division course from ACCT, BUS, ECON, FIN, MGT, MKT or MIS not already used in the major. (Not applicable to the Management Emphasis)

### 1. ENTREPRENEURSHIP EMPHASIS

BUS 341 Drug Discovery & Development (3)  
ECON 411 Economics of Entrepreneurship (3)  
MGT 325 Entrepreneurial Management (3)  
MKT 411 New Product Development and Management (3)

Electives (3)

### 2. FINANCE EMPHASIS

FIN 410 Financial Markets and Institutions (3)  
FIN 411 Corporate Finance Management (3)  
FIN 412 International Financial Management (3)  
FIN 413 Investment Analysis (3)  
Electives (3)

### 3. GLOBAL BUSINESS EMPHASIS

ACCT 410 International Accounting (3)  
MGT 310 Management of International Business (3)  
MKT 410 International Marketing Management (3)

Select one from the following:

ECON 370 The World Economy (3)  
ECON 471 International Trade (3)  
ECON 472 International Macroeconomics (3)  
Electives (3)

### 4. MANAGEMENT EMPHASIS

MGT 310 Management of International Business (3)  
MGT 421 Human Resource Management (3)  
MGT 424 Organizational Behavior (3)

Select two from the following:

MGT 325 Entrepreneurial Management (3)  
MGT 422 Strategic Planning (3)  
MGT 428 Contract Management (3)  
MGT 429 Program Management (3)  
MGT 471 Project Management (3)  
MGT 490 Special Topics (3)  
MGT 492 Service Learning/Internship (3)  
MGT 497 Directed Study (3)

### 5. MARKETING EMPHASIS

MKT 311 Consumer Behavior (3)  
MKT 409 Marketing Research (3)  
MKT 410 International Marketing Management (3)  
MKT 411 New Product Development and Management (3)

Electives (3)

## REQUIRED SUPPORTING AND OTHER GE COURSES (48 UNITS)

Upper Division Interdisciplinary course outside Business Major (3)  
American Institutions (6)  
Other GE Courses in Categories A-E (39)

## REQUIREMENTS FOR THE MINOR IN BUSINESS MANAGEMENT (21 UNITS)

The minor in Business Management offers students a foundation in principles related to managing people. The minor stresses critical thinking and the application of management concepts in a variety of organizational environments. The minor provides non-business majors with a basic understanding of management issues.

### LOWER DIVISION REQUIREMENTS (9 UNITS)

ACCT 210 Financial Accounting (3)  
BUS 110 Business Law (3)  
ECON 110 Principles of Microeconomics (3)

or

ECON 111 Principles of Macroeconomics (3)

or

ECON 300 Fundamentals of Economics (3)

### UPPER DIVISION REQUIREMENTS (12 UNITS)

Choose from the following:

BUS 320 Business Operations (3)  
BUS 420 Cases in Strategy (3)  
BUS 424 Business, Government and Society (3)  
MATH 329 Statistics for Business & Economics (3)  
MGT 307 Management of Organizations (3)  
MGT 310 Management of International Business (3)  
MGT 325 Entrepreneurial Management (3)  
MGT 326 Scientific and Professional Ethics (3)  
MGT 421 Human Resource Management (3)  
MKT 310 Principles of Marketing (3)  
MKT 311 Consumer Behavior (3)

## REQUIREMENTS FOR THE MINOR IN ECONOMICS (21-22 UNITS)

The economics minor familiarizes students with the tools of economics analysis, and applies these tools to economic decisions made by individuals in their personal and professional lives, and to the workings of national economies and the world economy.

### CAREERS

The economics minor is suitable for students desiring careers in all fields of business, education, journalism, law and government.

### LOWER DIVISION REQUIREMENTS (6-10 UNITS)

ECON 110 Principles of Microeconomics (3)  
ECON 111 Principles of Macroeconomics (3)

or

ECON 300 Fundamentals of Economics (3)  
*Note: If ECON 300 is taken in place of ECON 110 and 111, an additional 3 unit course must be taken from upper division electives.*

MATH 140 Calculus for Business Applications (3)

*or*

MATH 150 Calculus I (4)

### UPPER DIVISION REQUIREMENTS (6 UNITS)

ECON 310 Intermediate Microeconomics (3)

*or*

ECON 329 Managerial Economics (3)

ECON 311 Intermediate Macroeconomics (3)

*or*

ECON 320 Money and Banking (3)

### ELECTIVES (5-6 UNITS)

Additional upper divisions course in economics.  
(Minimum total of 21 units)

### FOR BUSINESS MAJORS ONLY

Courses used to fulfill Upper Division Interdisciplinary and Emphasis requirements may not be used (double counted) for ECON minor electives.

## POST-BACCALAUREATE CERTIFICATE IN BUSINESS ADMINISTRATION

The Certificate in Business Administration provides basic business skills to post baccalaureate and graduate students. The certificate program is suitable for: (i) Business professionals who wish to update their knowledge, skills, and abilities; (ii) Managers in science, technology, or engineering who seek a business orientation; (iii) Individuals making a transition into a managerial position; (iv) Individuals returning to the workforce, or considering a career change; (v) Those without an undergraduate degree in business who are considering an MBA. The program provides the essentials of business administration to students with limited or no formal business education. The coursework completed under this Certificate fulfills the prerequisite course requirements for the MBA Program. Courses offered under the Certificate may be delivered partially via distance education and consist of four 3-unit courses and one 4-unit course for a total of 16 units.

### PREREQUISITE

A Bachelor's degree in any field OR consent of advisor.

### REQUIREMENTS FOR CERTIFICATE (16 UNITS)

BUS 500 Economics for Managers (3)

BUS 502 Quantitative Methods for Decision-Making (3)

BUS 504 Introduction to Accounting & Finance (4)

BUS 506 Principles of Management and Marketing (3)

BUS 508 Business Ethics and Law (3)

## MASTER OF BUSINESS ADMINISTRATION (MBA)

**Offered through California State University Channel Islands Extended Education Program**

The MBA Program is designed to develop business leaders capable of working in an increasingly multicultural and global environment. Key elements include:

- Learning Community/Cohort Experience
- Evening Classes
- Online Foundations of Business courses
- Focus on International Business and Entrepreneurial Innovation
- Study Abroad Option
- Real-World Orientation

### THE MBA CURRICULUM

The curriculum is comprised of three parts: Foundations of Business (0-16 semester units), Required Core (24 semester units), and Electives (9 semester units) for a total of 33-49 semester units.

### FOUNDATIONS OF BUSINESS

The Foundations of Business courses provide the theoretical concepts and quantitative tools that form the basis for making business decisions. These courses are designed to provide students with a general understanding of accounting, economics, finance, ethics and law, statistics, management, and marketing. Some or all of these courses may be waived depending upon the applicant's undergraduate degree and coursework. Students with a bachelor's degree in business from CSUCI or from other accredited institutions within the last 10 years will have met the Foundations of Business requirements. Individual business courses taken as an undergraduate student at CSUCI or another institution may also meet specific Foundations requirements. Upon acceptance to the program, a student's transcripts will be reviewed for completion of the necessary coursework for mastery of the Foundations of Business. A grade of "C" or better is required to meet the criteria.

### REQUIRED CORE

The core MBA courses are presented in a cross-functional, integrative manner that provides a comprehensive view of the structure of business operations. Students learn to analyze business from a variety of perspectives. The seven core courses provide the skills and competencies students will need to be effective business leaders in the 21st century. A distinguishing aspect of the MBA Program is its focus on entrepreneurship and global business awareness. The Capstone Course (BUS 570) provides students with the opportunity to integrate their knowledge through an International Business Simulation exercise.



## ELECTIVES

With advisor approval, students will choose 9 additional units of upper-division or graduate level courses.

## FACULTY AND CONTACT INFORMATION

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## REQUIREMENTS FOR THE MASTER OF BUSINESS ADMINISTRATION (33-49 UNITS)

### Foundations of Business (0-16 units)

BUS	500	Economics for Managers (3)
BUS	502	Quantitative Methods for Decision-Making (3)
BUS	504	Introduction to Accounting & Finance (4)
BUS	506	Principles of Management & Marketing (3)
BUS	508	Business Ethics and Law (3)

### Required Core (24 units)

BUS	510	High Performance Management (3)
BUS	520	Strategy and Leadership (3)
BUS	530	Managing Business Operations (3)
BUS	540	Financial Reporting and Analysis (3)
BUS	550	The Contemporary Firm (3)
BUS	560	The Entrepreneurial Manager (3)
BUS	570	Competing in a Global Environment (6)

### Electives

With advisor approval, 9 units of upper-division or graduate-level courses.

## REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN BIOTECHNOLOGY AND MASTER OF BUSINESS ADMINISTRATION (71 UNITS\*)

\*Assumes that at least one set of the Foundation Courses listed below has been completed in a business or science undergraduate degree program.

### PROGRAM DESCRIPTION

The Master of Science in Biotechnology and Master of Business Administration is a dual professional degree program designed to meet the needs of biotechnology industry and related public and private agencies and organizations. The program combines rigorous scientific training in biotechnology with graduate course work and experience in business management and regulatory affairs. The program includes the foundation courses for the dual degree program, a set of graduate level core courses in both biotechnology and business, and several elective courses.

Our approach includes team projects drawn from biotechnology industries to focus on real-world problems and applications of biological sciences and business. We approach interpersonal skills and problem-solving skills from multiple perspectives.

### ADMISSION REQUIREMENTS

1. Applicants must have a BS/BA. degree in Biology, Chemistry, Biochemistry, or Business/ Economics related discipline. Alternatively, applicants with a BA/BS degree in any field and equivalent work experiences in one of the above fields may be admitted and must fulfill the foundation course requirements before taking the core courses and electives in the degree program.
2. Applicants seeking admission to the dual degree program must be officially accepted into CSUCI as graduate students.
3. Applicants must declare themselves as graduate students in the dual degree program.
4. Applicants will be evaluated by the program admissions committee which will consider the applicants in the context of the total applicant pool using our general admission standards. The following materials are required for our evaluation and admission process:
  - Applicants must submit their transcript(s) from their undergraduate institution(s) and Graduate Record Examinations (GRE) General Test scores.
  - Applicants who have received their undergraduate degrees from a university where English is not the language of instruction, or have studied fewer than two years at a university where instruction is in English, must submit their Test of English as a Foreign Language (TOEFL) scores.
  - Applicants must submit a one page "Statement of Purpose" and two letters of recommendations from people able to judge the applicant's capacity for both academic and professional success.

## DEGREE REQUIREMENTS

### Required Foundation Courses (16 Units)

1. Required Foundation Courses in Biology and Chemistry for students without a B.S. in Biology or Chemistry (16 units)  
CHEM 110 Chemistry of Life (4)  
BIOL 201 Principles of Cell and Molecular Biology (4)  
BIOL 300 Cell Biology (4)  
BIOL 400 Molecular Biology (4)
2. Required Foundation Courses in Business/Economics for students without a BS/BA in Business or Economics or a related discipline (16 units)  
BUS 500 Economics for Managers (3)  
BUS 502 Quantitative Methods for Decision-Making (3)  
BUS 504 Introduction to Accounting and Finance (4)  
BUS 506 Principles of Management and Marketing (3)  
BUS 508 Business Ethics and Law (3)

### CORE COURSES

#### Common Required Courses in the Dual Degree Program (9 Units)

- MGT 471 Project Management (3)  
BIOL/ 610 Capstone Project for MS/MBA Dual Degree (6)  
BUS

#### Required Courses in the Master of Science in Biotechnology (22 Units)

1. Required Core Courses (15 units)  
BINF 500 DNA & Protein Sequence Analysis (3)  
BIOL 502 Techniques in Genomics/Proteomics (2)  
BIOL 503 Biotechnology Law and Regulation (3)  
BIOL 504 Molecular Cell Biology (3)  
BIOL 510 Tissue Culture Techniques and Stem Cell Technology (3)  
BIOL 601 Seminar in Biotechnology and Bioinformatics (1)
2. Elective Courses (7 units)  
*A minimum of seven units from the following courses:*  
BIOL 505 Molecular Structure (4)  
BIOL 507 Pharmacogenomics and Pharmacoproteomics (3)  
BIOL 508 Advanced Immunology (4)  
BIOL 509 Plant Biotechnology (4)

#### Required Courses in the Master of Business Administration (24 Units)

1. Required Core Courses (18 units)  
BUS 510 High Performance Management (3)  
BUS 520 Strategy and Leadership (3)  
BUS 530 Managing Business Operations (3)  
BUS 540 Financial Reporting and Analysis (3)  
BUS 550 The Contemporary Firm (3)  
BUS 560 The Entrepreneurial Manager (3)
2. Elective Courses (6 units)  
*Double-counted courses:*  
BINF 500 DNA & Protein Sequence Analysis (3)  
BIOL 503 Biotechnology Law and Regulation (3)



## CHEMISTRY

### PROGRAMS OFFERED

- Bachelor of Arts in Chemistry
- Bachelor of Science in Chemistry
- Bachelor of Science in Chemistry, Option in Biochemistry
- Minor in Chemistry
- Certificate in Chemistry

The Chemistry Program at CSUCI is based on a “Big Ideas” approach to the discipline. Students will learn how to apply the “Big Ideas” skills to their analysis of concepts and problems. In addition to implementing the “Big Ideas” across the curriculum, students learn how to improve their analytical thinking, oral and written communication, and problem solving skills as individuals and in teams. The culmination of the degree involves a Chemistry Colloquium in conjunction with a service learning project, internship, or independent research experience. Writing skills are developed in all upper-division Chemistry courses.

### CAREERS

Graduates from the Bachelor of Arts or Bachelor of Science in Chemistry will receive an excellent preparation for securing entrance to a professional program (i.e., medical, veterinary, dentistry, or pharmacy), to graduate school in Chemistry or Biochemistry, and for employment in the academic, private, or public sector as chemists, biochemists, forensic scientists, and materials scientists.

The Bachelor of Arts in Chemistry is designed to provide a broad preparation in the chemical sciences. Required courses prepare students in four of the five traditional sub-disciplines of Chemistry: analytical, inorganic, organic, and physical chemistry. The Bachelor of Arts in Chemistry can also serve as the depth of study necessary for securing a Single Subject Credential in Science for teaching at the high school and middle school level. Additional courses in geology, astronomy, and biology are recommended to meet the breadth requirements for this credential.

The Bachelor of Science in Chemistry provides an excellent breadth and depth of preparation in Chemistry suitable for obtaining a position at a chemical or pharmaceutical industry, or for admission to graduate school in Chemistry or Biochemistry. Students may select either the general Bachelor of Science in Chemistry or the Biochemistry Option within the Bachelor of Science in Chemistry. The Biochemistry Option overlaps substantially with the requirements for the minor in Biology and students are encouraged to obtain the Biology minor in addition to the Bachelor of Science in Chemistry, Biochemistry Option.

The Minor in Chemistry provides non-majors with the Chemistry background that is needed to pursue graduate study or a career in an interdisciplinary field. Students in professional programs (medical, dental, veterinary, pharmacy), or majoring in Biology or Environmental Science and Resource Management, in particular, should consider obtaining a Chemistry minor, since a significant portion of the coursework needed for the Chemistry minor is included in these programs.

The Certificate in Chemistry is designed to provide individuals who have already obtained a Bachelor of Arts or Bachelor of Science degree in another discipline with the opportunity to obtain a certificate for advanced Chemistry coursework that is equivalent to a minor in Chemistry.

### PROGRAM LEARNING OUTCOMES

Students graduating from the Chemistry program will be able to:

- explain the fundamental concepts of Chemistry;
- evaluate a microscopic and macroscopic (real-life) problem and appropriately apply the fundamental concepts of Chemistry to the problem;
- formulate hypotheses and devise and perform experiments to test a hypothesis as individuals and in a team;
- explain key concepts in chemistry effectively through oral and written communication; and
- interpret and evaluate the chemical literature.

### CONTACT INFORMATION

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### FACULTY

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## ADDITIONAL FACULTY

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## REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN CHEMISTRY (120 UNITS)

### LOWER DIVISION REQUIREMENTS (28 UNITS)

#### 1. CHEMISTRY

- CHEM 121 General Chemistry I (4)
- CHEM 122 General Chemistry II (4)
- CHEM 250 Quantitative Analysis (2)
- CHEM 251 Quantitative Analysis Laboratory (2)

#### 2. MATH

- MATH 150 Calculus I (4)
- MATH 151 Calculus II (4)

#### 3. PHYSICS

- PHYS 100 Introduction to Physics I or
- PHYS 200 General Physics I (4)
- PHYS 101 Introduction to Physics II or
- PHYS 201 General Physics II (4)

## UPPER DIVISION REQUIREMENTS (16 UNITS)

- CHEM 305 Computer Applications in Chemistry (1)
- CHEM 311 Organic Chemistry I (3)
- CHEM 312 Organic Chemistry I Laboratory (1)
- CHEM 314 Organic Chemistry II (3)
- CHEM 315 Organic Chemistry II Laboratory (1)
- CHEM 371 Physical Chemistry I (3)
- CHEM 372 Physical Chemistry Laboratory (1)
- CHEM 492 Internship/ Service Learning *or*
- CHEM 494 Independent Research (2)
- CHEM 499 Chemistry Colloquium (1)

(9 units of the above courses will be counted toward lower-division general education categories B1, B3, and B4)

## UPPER DIVISION CHEMISTRY ELECTIVES (11 UNITS)

A total of 11 units of electives, excluding courses numbered 330-349 or 430-449, and including a minimum of two laboratory courses. Two units of Chemistry learning community courses (i.e., CHEM 313 and 316) may be used as electives toward the degree. No more than a combined total of 4 units of CHEM 492, 494, and 497 may be applied as electives.

- CHEM 301 Environmental Chemistry (3)
- CHEM 313 Organic Chemistry I Learning Community (1)
- CHEM 316 Organic Chemistry II Learning Community (1)
- CHEM 373 Physical Chemistry II (3)
- CHEM 410 Advanced Organic Synthesis (4)
- CHEM 415 Molecular Structure Determination (4)
- CHEM 450 Instrumental Analysis (4)
- CHEM 460 Biochemistry I (4)
- CHEM 461 Biochemistry II (4)
- CHEM 465 Bioinorganic Chemistry (4)
- CHEM 490 Special Topics in Chemistry (1-3)
- CHEM 492 Internship/ Service Learning (1-3)
- CHEM 494 Independent Research (1-3)
- CHEM 497 Directed Studies (1-3)

## REQUIRED SUPPORTING AND OTHER GE COURSES (45 UNITS)

- American Institutions Requirement (6)
- Other Courses in GE Categories A-E (39)
- Electives in Any Discipline (20 units)



## PROPOSED COURSE OF STUDY, BACHELOR OF ARTS IN CHEMISTRY

### First Year (31 Units)

#### FALL (14 UNITS)

Composition and Rhetoric (ENGL 102 or ENGL 105);  
GE Category A-2 (3)  
Critical Reasoning; GE Category A-3 (3)  
CHEM 121 General Chemistry I; GE Category B-1 (4)  
MATH 150 Calculus I; GE Category B-3 (4)

#### SPRING (17 Units)

University Elective or ENGL 103 (3)  
CHEM 122 General Chemistry II (4)  
MATH 151 Calculus II (4)  
Foreign Language Requirement; GE Category C-3a (3)  
Oral Communication; GE Category A-1 (3)

### Second Year (29 Units)

#### FALL (14 Units)

American Institutions Requirement (3)  
CHEM 311 Organic Chemistry I (3)  
CHEM 312 Organic Chemistry I Laboratory (1)  
Social Science, General Education Requirement;  
GE Category D (3)  
Physics requirement (PHYS 100 or 200); (4)

#### SPRING (15 Units)

CHEM 314 Organic Chemistry II (3)  
CHEM 315 Organic Chemistry II Laboratory (1)  
CHEM 250 Quantitative Analysis (2)  
CHEM 251 Quantitative Analysis Laboratory (2)  
Physics requirement (PHYS 101 or 201); (4)  
American Institutions Requirement (3)

### Third Year (30 Units)

#### FALL (14 Units)

CHEM 305 Computer Applications in Chemistry;  
GE Category B-4 (1)  
CHEM 371 Physical Chemistry I (3)  
CHEM 372 Physical Chemistry Laboratory (1)  
Multicultural General Education Requirement;  
GE Category C-3b (3)\*  
Life Science, General Education Requirement;  
GE Category B-2 (3)\*  
Literature, General Education Requirement;  
GE Category C-2 (3)\*

#### SPRING (16 Units)

Chemistry Elective, Laboratory (4)  
Human Physiological and Psychological Perspectives,  
General Education Requirement; GE Category E (3)\*  
University Elective (3)  
University Elective (3)  
Social Science, General Education Requirement;  
GE Category D (3)

### Fourth Year (30 Units)

#### FALL (15 Units)

Chemistry Elective, Lecture (3)  
Social Science, General Education Requirement;  
GE Category D (3)\*  
Visual and Performing Arts, General Education  
Requirement;  
GE Category C-1 (3)\*  
University Elective (3)  
University Elective (3)

#### SPRING (15 Units)

Chemistry Elective, Laboratory (4)  
Social Science, General Education Requirement;  
GE Category D (3)  
University Elective (3)  
University Elective (2)  
CHEM 492 Internship/ Service Learning *or*  
CHEM 494 Independent Research (2)  
CHEM 499 Chemistry Colloquium (1)

Note to Students: To maximize University Electives, it is recommended that the nine units of upper-division, interdisciplinary general education courses (numbered 330-349 or 430-449) be taken from those courses marked with an asterisk (\*), in order to meet simultaneously Categories A-E and the nine units of Upper-Division General Education.

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN CHEMISTRY (120 UNITS)

### LOWER DIVISION REQUIREMENTS (28 UNITS)

- Chemistry
  - CHEM 121 General Chemistry I (4)
  - CHEM 122 General Chemistry II (4)
  - CHEM 250 Quantitative Analysis (2)
  - CHEM 251 Quantitative Analysis Laboratory (2)
- Math
  - MATH 150 Calculus I (4)
  - MATH 151 Calculus II (4)
- Physics
  - PHYS 100 Introduction to Physics I *or*
  - PHYS 200 General Physics I (4)
  - PHYS 101 Introduction to Physics II *or*
  - PHYS 201 General Physics II (4)

### UPPER DIVISION REQUIREMENTS (20 UNITS)

- CHEM 305 Computer Applications in Chemistry (1)
- CHEM 311 Organic Chemistry I (3)
- CHEM 312 Organic Chemistry I Laboratory (1)
- CHEM 314 Organic Chemistry II (3)
- CHEM 315 Organic Chemistry II Laboratory (1)
- CHEM 371 Physical Chemistry I (3)
- CHEM 372 Physical Chemistry Laboratory (1)
- CHEM 460 Biochemistry I (4)
- CHEM 492 Internship/ Service Learning *or*
- CHEM 494 Independent Research (2)
- CHEM 499 Chemistry Colloquium (1)

(9 units of the above courses will be counted toward lower-division General Education Categories B1, B3, and B4)

## UPPER DIVISION CHEMISTRY ELECTIVES (22 UNITS)

A total of 22 units of electives, excluding courses numbered 330-349 or 430-449, and including a minimum of three laboratory courses. Two units of Chemistry learning community courses (i.e. CHEM 313 and 316) may be used as electives. No more than a combined total of 4 units of CHEM 492, 494, and 497 may be applied as electives.

CHEM 301	Environmental Chemistry (3)
CHEM 313	Organic Chemistry I Learning Community (1)
CHEM 316	Organic Chemistry II Learning Community (1)
CHEM 373	Physical Chemistry II (3)
CHEM 410	Advanced Organic Synthesis (4)
CHEM 415	Molecular Structure Determination (4)
CHEM 450	Instrumental Analysis (4)
CHEM 461	Biochemistry II (4)
CHEM 465	Bioinorganic Chemistry (4)
CHEM 490	Special Topics in Chemistry (1-3)
CHEM 492	Internship/ Service Learning (1-3)
CHEM 494	Independent Research (1-3)
CHEM 497	Directed Studies (1-3)

## REQUIRED SUPPORTING AND OTHER GE COURSES (45 UNITS)

American Institutions Requirement (6)  
Other Courses in GE Categories A-E (39)  
Electives in Any Discipline (5 units)

## PROPOSED COURSE OF STUDY BACHELOR OF SCIENCE IN CHEMISTRY

### First Year (30 Units)

#### FALL (14 Units)

Composition and Rhetoric (ENGL 102 or ENGL 105);  
GE Category A-2 (3)  
Critical Reasoning; GE Category A-3 (3)  
CHEM 121 General Chemistry I; GE Category B-1 (4)  
MATH 150 Calculus I; GE Category B-3 (4)

#### SPRING (16 units)

University Elective or ENGL 103 (3)  
CHEM 122 General Chemistry II (4)  
MATH 151 Calculus II (4)  
Foreign Language Requirement; GE Category C-3a (3)  
University Elective (2)

### Second Year (29 Units)

#### FALL (14 Units)

Oral Communication; GE Category A-1 (3)  
CHEM 311 Organic Chemistry I (3)  
CHEM 312 Organic Chemistry I Laboratory (1)  
Social Science, General Education Requirement;  
GE Category D (3)  
Physics requirement (PHYS 100 or 200); (4)

### SPRING (15 Units)

CHEM 314 Organic Chemistry II (3)  
CHEM 315 Organic Chemistry II Laboratory (1)  
CHEM 250 Quantitative Analysis (2)  
CHEM 251 Quantitative Analysis Laboratory (2)  
Physics requirement (PHYS 101 or 201); (4)  
American Institutions Requirement (3)

### Third Year (31 Units)

#### FALL (15 Units)

CHEM 371 Physical Chemistry I (3)  
CHEM 372 Physical Chemistry Laboratory (1)  
CHEM 460 Biochemistry I (4)  
CHEM 305 Computer Applications in Chemistry;  
GE Category B-4 (1)  
Life Science, General Education Requirement;  
GE Category B-2 (3)\*  
Social Science, General Education Requirement;  
GE Category D (3)

#### SPRING (16 Units)

Chemistry Elective, Laboratory (4)  
Chemistry Elective, Lecture (3)  
Human Physiological and Psychological Perspectives,  
General Education Requirement; GE Category E (3)\*  
Social Science, General Education Requirement;  
GE Category D (3)\*  
Multicultural General Education Requirement;  
GE Category C-3b (3)\*

### Fourth Year (30 Units)

#### FALL (16 Units)

Chemistry Elective, Laboratory (4)  
Chemistry Elective, Lecture (3)  
Social Science, General Education Requirement;  
GE Category D (3)\*  
American Institutions Requirement (3)  
Literature, General Education Requirement;  
GE Category C-2 (3)\*

#### SPRING (14 Units)

Visual and Performing Arts, General Education  
Requirement; GE Category C-1 (3)\*  
Chemistry Elective, Laboratory (4)  
Chemistry Elective, Lecture (3) AND Chemistry Elective  
(1); OR Chemistry Elective, Laboratory (4)  
CHEM 492 Internship/ Service Learning or CHEM 494  
Independent Research (2)  
CHEM 499 Chemistry Colloquium (1)

Note to Students: To maximize University Electives, it is recommended that the nine units of upper-division, interdisciplinary general education courses (numbered 330-349 or 430-449) be taken from those courses marked with an asterisk (\*), in order to meet simultaneously Categories A-E and the nine units of Upper-Division General Education.

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN CHEMISTRY, BIOCHEMISTRY OPTION (120 UNITS)

### LOWER DIVISION REQUIREMENTS (36 UNITS)

1. Chemistry
  - CHEM 121 General Chemistry I (4)
  - CHEM 122 General Chemistry II (4)
  - CHEM 250 Quantitative Analysis (2)
  - CHEM 251 Quantitative Analysis Laboratory (2)
2. Biology
  - BIOL 200 Principles of Organismal & Population Biology (4)
  - BIOL 201 Principles of Cell & Molecular Biology (4)
3. Math
  - MATH 150 Calculus I (4)
  - MATH 151 Calculus II (4)
4. Physics
  - PHYS 100 Introduction to Physics I *or*
  - PHYS 200 General Physics I (4)
  - PHYS 101 Introduction to Physics II *or*
  - PHYS 201 General Physics II (4)

### UPPER DIVISION REQUIREMENTS (32 UNITS)

1. Chemistry
  - CHEM 305 Computer Applications in Chemistry (1)
  - CHEM 311 Organic Chemistry I (3)
  - CHEM 312 Organic Chemistry I Laboratory (1)
  - CHEM 314 Organic Chemistry II (3)
  - CHEM 315 Organic Chemistry II Laboratory (1)
  - CHEM 371 Physical Chemistry I (3)
  - CHEM 372 Physical Chemistry Laboratory (1)
  - CHEM 460 Biochemistry I (4)
  - CHEM 461 Biochemistry II (4)
  - CHEM 492 Internship/ Service Learning *or*
  - CHEM 494 Independent Research (2)
  - CHEM 499 Chemistry Colloquium (1)
2. Biology
  - BIOL 300 Cell Biology (4)
  - BIOL 400 Molecular Biology (4)

(12 units of the above requirements will be counted toward lower-division General Education Categories B1, B2, B3, and B4)

### UPPER DIVISION CHEMISTRY ELECTIVES (2 UNITS)

A total of 2 units of electives, excluding courses numbered 330-349 or 430-449. Two units of Chemistry learning community courses (i.e., CHEM 313 and 316) may be used as electives toward the degree.

- CHEM 301 Environmental Chemistry (3)
- CHEM 313 Organic Chemistry I Learning Community (1)
- CHEM 316 Organic Chemistry II Learning Community (1)

- CHEM 373 Physical Chemistry II (3)
- CHEM 410 Advanced Organic Synthesis (4)
- CHEM 415 Molecular Structure Determination (4)
- CHEM 450 Instrumental Analysis (4)
- CHEM 465 Bioinorganic Chemistry (4)
- CHEM 490 Special Topics in Chemistry (1-3)
- CHEM 492 Internship/ Service Learning (1-3)
- CHEM 494 Independent Research (1-3)
- CHEM 497 Directed Studies (1-3)

### REQUIRED SUPPORTING AND OTHER GE COURSES (42 UNITS)

- American Institutions Requirement (6)
- Other Courses in GE Categories A-E (36)
- Electives in any Discipline (5 units)

### PROPOSED COURSE OF STUDY BACHELOR OF SCIENCE IN CHEMISTRY, BIOCHEMISTRY OPTION

#### First Year (29 Units)

##### FALL (14 Units)

- CHEM 121 General Chemistry I (4) GE Category B-1 (4)
- Composition and Rhetoric (ENGL 102 Stretch Composition or ENGL 105 Composition and Rhetoric (3) GE Category A-2
- Critical Reasoning; GE Category A-3 (3)
- MATH 150 Calculus I (4) GE Category B-3

##### SPRING (15 Units)

- University Elective or ENGL 103 (3)
- CHEM 122 General Chemistry II (4)
- BIOL 200 Principles of Organismal & Population Biology (4) GE Category B-2
- MATH 151 Calculus II (4)

#### Second Year (30 Units)

##### FALL (15 Units)

- CHEM 311 Organic Chemistry I (3)
- CHEM 312 Organic Chemistry I Laboratory (1)
- Physics requirement (PHYS 100 or 200); (4)
- Foreign Language Requirement; GE Category C-3A (3)
- BIOL 201 Principles of Cell & Molecular Biology (4)

##### SPRING (15 Units)

- CHEM 314 Organic Chemistry II (3)
- CHEM 315 Organic Chemistry II Laboratory (1)
- Physics requirement (PHYS 101 or 201) (4)
- CHEM 250 Quantitative Analysis (2)
- CHEM 251 Quantitative Analysis Laboratory (2)
- Oral Communication; GE Category A-1 (3)

#### Third Year (29 Units)

##### FALL (15 Units)

- CHEM 371 Physical Chemistry I (3)
- CHEM 372 Physical Chemistry Laboratory (1)
- CHEM 305 Computer Applications in Chemistry (1)
- General Education Requirement; GE Category B4
- CHEM 460 Biochemistry I (4)
- Social Science, General Education Requirement; GE Category D (3)
- American Institutions Requirement (3)



**SPRING (14 Units)**

CHEM 461 Biochemistry II (4)

BIOL 300 Cell Biology (4)

Human Physiological and Psychological Perspectives,  
General Education Requirement; GE Category E (3)\*  
Social Science, General Education Requirement;  
GE Category D (3)\*

**Fourth Year (32 Units)****FALL (15 Units)**

BIOL 400 Molecular Biology (4)

Chemistry Elective (2)

American Institutions Requirement (3)

Literature, General Education Requirement;

GE Category C-2 (3)\*

Social Science, General Education Requirement;

GE Category D (3)\*

**SPRING (17 Units)**

CHEM 499 Chemistry Colloquium (1)

CHEM 492 Internship/ Service Learning or

CHEM 494 Independent Research (2)

Social Science, General Education Requirement;

GE Category D (3)\*

Social Science, General Education Requirement;

GE Category D (3)\*

Multicultural General Education Requirement; GE  
Category C-3b (3)\*

University Elective (2)

Visual and Performing Arts, General Education  
Requirement; GE Category C-1 (3)\*

To maximize University Electives, it is recommended that the nine units of upper-division, interdisciplinary general education courses (numbered 330-349 or 430-449) be taken from those courses marked with an asterisk (\*), in order to meet simultaneously Categories A-E and the nine units of Upper-Division General Education.

**REQUIREMENTS FOR THE MINOR IN CHEMISTRY (23 UNITS)****LOWER DIVISION REQUIREMENTS (8 UNITS)**

CHEM 121 General Chemistry I and Laboratory (4)

CHEM 122 General Chemistry II and Laboratory (4)

**UPPER DIVISION REQUIREMENTS (8 UNITS)**

CHEM 311 Organic Chemistry I (3)

CHEM 312 Organic Chemistry I Laboratory (1)

CHEM 314 Organic Chemistry II (3)

CHEM 315 Organic Chemistry II Laboratory (1)

**ELECTIVES (7 UNITS)**

A total of 7 units with the CHEM prefix at the 300-400 level (excluding CHEM 330-349, CHEM 430-449, and CHEM 490-499) or CHEM 250 and 251. One unit of a learning community course (CHEM 313 or 316) can be applied to the Chemistry Minor.

**REQUIREMENTS FOR THE CERTIFICATE IN CHEMISTRY (23 UNITS)****LOWER DIVISION REQUIREMENTS (8 UNITS)**

CHEM 121 General Chemistry I and Laboratory (4)

CHEM 122 General Chemistry II and Laboratory (4)

**UPPER DIVISION REQUIREMENTS (8 UNITS)**

CHEM 311 Organic Chemistry I (3)

CHEM 312 Organic Chemistry I Laboratory (1)

CHEM 314 Organic Chemistry II (3)

CHEM 315 Organic Chemistry II Laboratory (1)

**ELECTIVES (7 UNITS)**

A total of 7 units of courses with the CHEM prefix on the 300-400 level (excluding CHEM 330-349, CHEM 430-449, and CHEM 490-499) or CHEM 250 and 251. One unit of a learning community course (CHEM 313 or 316) can be applied to the Chemistry Certificate.





## CHICANO/A STUDIES

### PROGRAM OFFERED

- Minor in Chicano/a Studies

The minor in Chicano/a studies affords students the opportunity to investigate the multi-dimensional culture of the Chicano/a community in the United States. It is, by definition, interdisciplinary and seeks to provide students with a nuanced appreciation of this population. The minor offers non-majors the opportunity to investigate the historical complexities of societies and social movements and their legacies in the present. Therefore the minor serves as a primer to the scholarly appreciation of the past.

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## REQUIREMENTS FOR THE MINOR IN CHICANO/A STUDIES (18-20 UNITS)

### LOWER DIVISION REQUIREMENTS (6-8 UNITS)

SPAN 201 Intermediate Spanish I (4)  
SPAN 202 Intermediate Spanish II (4)

or

SPAN 211 Spanish for Heritage Speakers I (4)  
SPAN 212 Spanish for Heritage Speakers II (4)

or

Six upper division units in Spanish approved by minor advisor.

### UPPER DIVISION REQUIREMENTS (12 UNITS)

Select four courses from the following:

EDUC 451 The Chicano/Mexicano Child & Adolescent (4)

ART/ 333 History of Southern California  
HIST Chicano/a Art (3)

BUS/ 349 History of Business and Economics in  
ECON/HIST North America (3)

HIST 350 Chicano/a History and Culture (3)

HIST 402 Southern California History and  
Culture (3)

HIST 421 Revolutionary Mexico, 1876-1930 (3)

or

Other upper division courses approved by the minor advisor.



## COMMUNICATION

### PROGRAMS OFFERED

- Bachelor of Arts in Communication
- Minor in Communication

The BA in Communication is based on a thorough examination of how we use language in a variety of specific social contexts. By critically considering how meaning is negotiated in health, environmental and business/nonprofit settings, students will appreciate the complexity of coordinating our actions.

By working in diverse small and large groups, making presentations, and using a variety of channels – from face-to-face to telephone, email to internet, students who complete the program will be prepared to take responsibility for their interactions within their communities and the workplace of their choosing.

### CAREERS

Major career opportunities include environmental advocacy, nonprofit and business management, and health services. Additional employment avenues include: mediation, counseling, public affairs, government, entrepreneurship, sales, community relations, employee relations, teaching (education), consulting, event planning, media entertainment, law, international relations, social and human services, advertising, journalism, marketing, public relations. Students may also pursue graduate studies.

### PROGRAM LEARNING OUTCOMES

After having completed the requirements for the degree, students will be able to:

- interact with others in one-on-one and small/large group settings, and with audiences of diverse memberships;
- collaborate effectively with others;
- analyze messages critically for content, purpose, organization, argument, style and meaning;
- analyze conflicts and work through resolutions;
- differentiate ethical dimensions of health, environmental or organizational messages and estimate their impact upon a given community; and
- choose an optimal means to communicate depending upon the audience, situation and by understanding the relevance, limitations and effectiveness of different communication technologies.

### FACULTY

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## REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN COMMUNICATION (120 UNITS)

### COURSES (43 UNITS)

#### Lower Division Requirements (12 units)

COMM 101	Public Speaking (3)
COMM 200	Introduction to Communication Studies (3)
COMM 210	Interpersonal Communication (3)
COMM 220	Group Communication (3)

#### Upper Division Requirements (31 units)

##### REQUIRED COURSES (13 UNITS)

COMM 310	Communication Research Methods (3)
(Note: may substitute with permission ENGL 310 or SOC 310)	
COMM 320	Persuasion & Argumentation (3)
COMM 321	Cultural Conversations (3)
ART 331	Art, Society & Mass Media (3)
COMM 499	Capstone Project (1)

#### MAJOR ELECTIVES (6 UNITS)

(Students will choose two)

COMM 335	Politics & Film (3)
COMM 336	Multicultural Literature and Communication (3)
COMM 345	Media Literacy & Youth Culture (3)
COMM 430	Political Communication (3)
COMM 492	Internship/Service Learning (1-3)
COMP 449	Human-Computer Interaction (3)

#### EMPHASIS Requirements (12 units)

(Choose one emphasis below)

##### ENVIRONMENTAL COMMUNICATION EMPHASIS

COMM/440	Environmental Communication (3)
ESRM	
Plus three interdisciplinary electives (9 units)	
ANTH/332	Human Ecology (3) D, Interdisciplinary
ESRM	
BIOL 433	Ecology and the Environment (4) (Prereq. BIOL 200) (B2, Interdisciplinary)
CHEM 301	Environmental Chemistry (3) (Prereq. CHEM 122)
ENGL 337	Literature of the Environment (3) C2, D. Interdisciplinary
ESRM 313	Conservation Biology (4) (Prereq. BIOL 200)
ESRM 329	Environmental Law and Policy (3) (Prereq. ESRM 100)
ESRM 462	Coastal & Marine Management (3) (Prereqs. include: BIOL 433, ECON 362, ESRM 329)
ESRM 463	Water Resources Management (3) (Prereqs. include: BIOL 433, ECON 362, ESRM 329)
ESRM 464	Land Use Planning & Agricultural Management (3) (Prereqs. include: BIOL 433, ECON 362,

ESRM	482	Issues in Environmental Planning & Resource Management (3) (Prereqs. include: BIOL 433, ECON 362, ESRM 329)
ESRM	483	Issues in Global Resource Management (3)
GEOL	121	Physical Geology (4) <i>or</i>
GEOL	122	Historical Geology (3)
GEOL	321	Environmental Geology (4)

#### HEALTH COMMUNICATION EMPHASIS

COMM/	441	Health Communication (3)
NRS		
Plus three interdisciplinary electives (9 units)		
ANTH	103	Human Beginnings, Biological and Cultural Evolution (3)
ANTH	443	Medical Anthropology: Cross Cultural Perspectives on Health & Healing (3) (GenEd: D, Interdisciplinary)
BIOL	331	Biotechnology & 21st Century (3) (B2, D, Interdisciplinary)
BIOL	332	Cancer and Society (3) (B2, D, Interdisciplinary)
BIOL	333	Emerging Public Health Issues (3) (B2, E, Interdisciplinary)
BIOL	432	Principles of Epidemiology & Environmental Health (3) (B2, D, Interdisciplinary) (Prereq. BIOL 201 and CHEM 122)
HLTH	322	Health Issues and Education (2)
MGT	426	Management of Healthcare Organizations (3) (Prereq. MGT 307)

#### BUSINESS & NONPROFIT COMMUNICATION EMPHASIS

COMM	442	Organizational Communication (3)
Plus three interdisciplinary electives (9 units)		
ECON	329	Managerial Economics (3) (Prereq. ECON 110, 111 & MATH 140 or 150)
ECON	340	Business & Economics in American Literature (3) (C2, D, Interdisciplinary)
ECON	370	World Economy (3) (Prereq. ECON 110 or ECON 300)
ECON	471	International Trade (3) (Prereq. ECON 310 or ECON 329)
ENGL	483	Technical Visual Communication (3)
MGT	307	Management of Organizations (3)
MGT	310	Management of International Business (3)
MGT	325	Entrepreneurial Management (3)
MGT	326	Scientific & Professional Ethics (3)
MGT	421	Human Resource Management (3) (Prereq. MGT 307)
MKT	310	Principles of Marketing (3)
MKT	410	International Marketing Management (3) (Prereq. MKT 310)
POLS	320	Public Administration (3)
PSY	432	Seminar in Leadership (3) (D, E, Interdisciplinary)

#### TOTAL UNITS REQUIRED FOR GRADUATION

Units in the Major		
Lower Division		12
Upper Division		31
General Education		45
Title V: American Institutions Requirement		6
Electives		26
TOTAL		120

#### REQUIREMENTS FOR THE MINOR IN COMMUNICATION (18 UNITS)

The minor in Communication affords non-majors the opportunity to learn the fundamental skills necessary to interact with diverse others in a wide variety of contexts. Students will survey the field of communication studies and learn the basic skills to interact one-on-one and in small and large groups.

##### Lower Division Requirements (9 units)

(including pre-/co-requisites)

COMM	101	Public Speaking (3)
COMM	200	Introduction to Communication Studies (3)
COMM	210	Interpersonal Communication (3)
<i>or</i>		
COMM	220	Group Communication (3)

##### Upper Division Requirements (9 units)

(including pre-/co-requisites)

Select three courses from the following:

COMM	320	Persuasion & Argumentation (3)
COMM	321	Cultural Conversations (3)
ART	331	Art, Society & Mass Media (3)
COMM/	441	Health Communication (3)
NRS		
COMM	442	Organizational Communication (3)
COMM/	443	Environmental Communication (3)
ESRM		
COMM	335	Politics & Film (3)
COMM	336	Multicultural Literature and Communication (3)
COMM	345	Media Literacy & Youth Culture (3)
COMM	430	Political Communication (3)
COMM	492	Internship/Service Learning (1-3)
COMP	449	Human-Computer Interaction (3)



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## COMPUTER SCIENCE

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### PROGRAMS OFFERED

- Bachelor of Science in Computer Science
- Minor in Computer Science
- Master of Science in Computer Science
- Bachelor of Science in Information Technology

The Computer Science degree offers the latest cutting edge education for various industrial and applied fields. Students are given a strong background in computer hardware and software, as well as a substantial amount of “hands-on” experience. The program stresses interdisciplinary applications in other sciences and business and prepares students for graduate studies.

### CAREERS

The program prepares students for careers in high-tech, computer and Internet-driven industries, where interdisciplinary, dynamic and innovative professionals trained in the latest technologies are increasingly sought.

### PROGRAM LEARNING OUTCOMES

Students graduating from the Computer Science program will be able to:

- demonstrate critical thinking and problem solving skills by identifying, evaluating, analyzing and presenting fundamental software solutions and their applications;
- demonstrate the knowledge of current computing practices and broad technology use in industry and society, including a working knowledge of software development techniques;
- be cognizant of emerging new technologies and industrial practices connected to the computer industry;
- demonstrate communication, research and cooperation skills by working effectively with others in interdisciplinary group settings - both inside and outside the classroom; and
- demonstrate a sense of exploration that enables them to pursue rewarding careers in high- tech and bio-tech industries with life-learning.

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## REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN COMPUTER SCIENCE (122 UNITS)

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### LOWER DIVISION REQUIREMENTS (42 UNITS)

COMP	150	Object-Oriented Programming, GE-B4 (4)
COMP	151	Data Structures and Program Design (4)
COMP	162	Computer Architecture and Assembly Language (3)
COMP	232	Programming Languages (3)
COMP	262	Computer Organization and Architecture (3)
MATH	150	Calculus I, GE-B3 (4)
MATH	151	Calculus II (4)
MATH	240	Linear Algebra (3)
MATH	230	Logic, GE-A3, B3 (3)

Science: A 2 semester science sequence and an additional science course (with lab) in Physics, Biology, or Chemistry (11-12, G.E. B1 and B2)

### UPPER DIVISION REQUIREMENTS (40 UNITS)

#### Major Requirements (31 Units)

COMP	350	Introduction to Software Engineering (3)
COMP	362	Operating Systems (3)
COMP	447	Societal Issues in Computing (3) (GE-B4, D, Interdisciplinary)
COMP	454	Automata, Languages and Computation (3)
COMP	499	Capstone Project (3)
COMP	491	Capstone Preparation (1)
MATH	300	Discrete Mathematics (3)
MATH	352	Probability and Statistics (3)
MATH	354	Analysis of Algorithms (3)
MATH	448	Scientific Computing, GE-B3, B4, Interdisciplinary (3)

#### Choose 3 units from the following:

COMP	420	Database Theory and Design (3)
COMP	464	Computer Graphics I (3)

#### Electives (9 Units)

##### Choose 9 Elective units from:

COMP/	345	Digital Image Processing (3)
MATH/PHYS		(GE B1, B4, Interdisciplinary)
COMP	421	Unix for Programmers (3)
COMP	422	Design of Compilers (3)
COMP	424	Computer System Security (3)
COMP	425	Computer Game Programming (3)
COMP	429	Computer Networks (3)
COMP/	445	Image Analysis & Pattern Recognition,



MATH/PHYS	GE-B1, B4, Interdisciplinary	(3)
COMP 451	Advanced Object Oriented Programming	(3)
COMP/ 452	Computational Bioinformatics	(4)
MATH		
COMP 462	Embedded Systems	(3)
COMP 464	Computer Graphics I	(3)
COMP 466	Computer Graphics II	(3)
COMP 469	Artificial Intelligence/Neural Nets	(3)
COMP 490	Topics in Computer Science	(3)
COMP 492	Internship	(1-3)
COMP 494	Independent Research	(1-3)
COMP 497	Directed Study	(3)
ENGL 482	Technical Writing	(3)
MATH 429	Operations Research	(3)

## PROPOSED COURSE OF STUDY

### Freshman Year (31 units)

COMP 150	Object-Oriented Programming, GE-B4	(4)
COMP 151	Data Structures and Program Design	(4)
COMP 162	Computer Architecture and Assembly Language	(3)
ENGL 105	Composition and Rhetoric,* GE-A2	(3)
MATH 150	Calculus I, GE-B3	(4)
G.E. Section A or C		(3)
MATH 151	Calculus II	(4)
MATH 230	Logic and Mathematical Reasoning, GE-A3	(3)
G.E. Section A or C		(3)
* Or ENGL 102 and 103		(6)

### Sophomore Year (23-24 units)

COMP 232	Programming Languages	(3)
COMP 262	Computer Organization & Architecture	(3)
MATH 240	Linear Algebra	(3)
MATH 300	Discrete Mathematics	(3)
Select a 2 semester science sequence, and an additional lab science course, in Physics, Biology, or Chemistry, G.E. B1 and B2 (11-12)		

### Junior Year (13 units + GE)

COMP 350	Introduction to Software Engineering	(3)
COMP 362	Operating Systems	(3)
COMP 454	Automata, Languages, & Computation	(3)
COMP 491	Capsone Preparation	(1)
MATH 354	Analysis of Algorithms	(3)

### Senior Year (24 units + GE)

COMP 420	Database Theory and Design	(3)
COMP 424	Computer System Security	(3)
COMP 429	Computer Networks	(3)
COMP 447	Societal Issues in Computing, GE-B4, D, Interdisciplinary	(3)
COMP 464	Computer Graphics I	(3)
COMP 469	Artificial Intelligence/Neural Nets	(3)
COMP 499	Capstone Project	(3)
MATH 448	Scientific Computing (3) (GE B3, B4, Interdisciplinary)	

## General Education Courses Included in Major Requirements (18 units):

MATH 150	Calculus I, GE-B3	(4)
COMP 150	Object-Oriented Programming, GE-B4	(4)
MATH 230	Logic and Mathematical Reasoning, GE-A3	(3)
COMP 447	Societal Issues in Computing Sciences	(4)
	GE-D, B1, B2	

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN COMPUTER SCIENCE DEGREE (122 UNITS)

Lower Division Required Major Courses (42)  
Upper Division Required Major Courses (31)  
Upper Division Elective Major Courses (9)  
Elective Courses (6)  
General Education and American Institutions Requirement (34)  
Note: General Education Included in Major Requirements (18)

## REQUIREMENTS FOR THE MINOR IN COMPUTER SCIENCE (23 UNITS)

The Computer Science minor teaches the fundamentals of computer systems and programming. This minor includes the fundamentals of computer programming, including design, implementation, and testing of object-oriented programs. It also teaches the basic architecture of the computer hardware, including the fundamental components of a computer system and the logical reasoning that it is based upon. Since these computer skills are extremely useful in most other disciplines, enhancing the students knowledge of technology no matter which major they have chosen.

## CAREERS

Computer Programmer; Computer Systems Analyst;  
Any career that requires a basic knowledge of computer systems and programming.

## LOWER DIVISION REQUIREMENTS

COMP 105	Computer Programming Introduction	(3)
COMP 150	Object Oriented Programming	(4)
COMP 151	Data Structures and Program Design	(4)
COMP 162	Computer Architecture and Assembly	(3)
MATH 230	Logic and Mathematical Reasoning	(3)

## UPPER DIVISION REQUIREMENTS

Two upper-division courses from the CS program approved by the advisor.

## MASTER OF SCIENCE IN COMPUTER SCIENCE

(Offered through CSU Channel Islands' Extended Education Program)

The MS in Computer Science prepares students for advanced careers in high-tech, computer-driven industries, including applications to business, aerospace, education, military, and government where interdisciplinary, dynamic and innovative professionals trained in latest technologies are increasingly sought. Students develop a strong background in computer theory, software and hardware, as well as skills to conduct applied research. The program stresses interdisciplinary applications while preparing students for a wide range of industry, academic, and research positions.

<http://www.cs.csuci.edu/MSCS/>

### ADMISSION

Students seeking admission are expected to have an undergraduate degree in computer science, mathematics, engineering, or science. The applicant is expected to have a 2.7 or higher cumulative undergraduate grade point average (GPA). A GRE report is also required for applicant whose GPA is less than 3.0.

### GRADUATION

To obtain the degree, the student must complete each course with a minimum grade of B, and defend a thesis before an examination committee.

### 32 REQUIRED UNITS

2 units: COMP 599 (Graduate Seminar)

6 units: COMP 597 (Thesis)

24 units: electives (minimum of 18 units must be COMP)

### ELECTIVES

COMP 510 Algorithms (3)  
COMP 569 Artificial Intelligence (3)  
COMP 550 Advanced Software Engineering (3)  
COMP 520 Advanced Database Systems (3)  
COMP 524 Security (3)  
COMP 529 Network Computing (3)  
COMP 549 Human-Computer Interaction (3)  
COMP 550 Advanced Software Engineering (3)  
COMP 569 Artificial Intelligence (3)  
COMP 571 Biologically Inspired Computing (3)  
COMP 572 Neural Networks (3)  
COMP 575 Multi-agent Systems (3)  
COMP 578 Data Mining (3)  
COMP 590 Special Topics in Computer Science (3)  
COMP/ 510 Advanced Image Analysis Techniques (3)  
PHYS  
COMP/ 546 Pattern Recognition (3)  
PHYS  
COMP/ 581 Mathematical Methods In Artificial

MATH Intelligence (3)  
COMP 597 Master Thesis (1-6)  
COMP 599 Graduate Seminar (1)  
MATH 510 Probabilistic Methods & Measure Theory (3)  
MATH 511 Functional Analysis (3)  
MATH 555 Actuarial Sciences (3)  
MATH 565 Research In Mathematics Education (3)  
MATH 582 Number Theory And Cryptography (3)  
MATH 584 Algebraic Geometry & Coding Theory (3)  
MATH 587 Markov Chains & Markov Processes (3)  
MATH 588 Stochastic Analysis (3)

## BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

### PROGRAM OFFERED

- Bachelor of Science in Information Technology

(Pending approval from the Chancellor's Office and offered through California State University Channel Islands Extended Education Program)

This BSIT program is specifically designed to provide an avenue of advancement for students with associate's degrees in a technology discipline such as networking (e.g.: Moorpark College's Associate in Science Degree in Computer Network Systems Engineering). This new program gives the student the opportunity to complete a Bachelor of Science degree in Information Technology. The course work will provide a foundation in mathematics, programming, networking, databases, web, computer architecture and information systems. The BSIT sits between a BS in Computer Science and a BS in Management Information Systems, emphasizing the fastest growing segments of the both: Web Systems, Databases, and Networks. For a foundation, the BSIT program draws from both camps: mathematics, science, and computer programming from Computer Science, and business organization and project management from Management Information Systems. From there it adds depth in Web Programming and Technology, Database Theory and Design, and Data Communications and Networking, while allowing for further depth in these or related areas such as e-Commerce, Computer Security, and Multimedia.

### CAREERS

Potential career option for BSIT graduates include: Computer Systems Integrator, Computer Systems Manager, Information Technology Designer, Information Technology Support, Database Systems Manager, Database Systems Designer, Data Communications Analyst, Network Manager, Network Designer, Web Technology Manager, Web Technology Support.

### PROGRAM LEARNING OUTCOMES AND CONTACT INFORMATION

<http://www.cs.csuci.edu/>

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (120 UNITS)

### Lower Division Requirements

Students entering this program are expected to have completed an associate's degree (or equivalent) in a technology area, including:

1. Statistics.
2. One semester of a Laboratory science (Physics, Chemistry, or Biology).
3. First course in a computer programming language such as C, Java or C++.
4. First course in Computer Architecture and Assembly Language.
5. CSU GE Certification or courses fulfilling the CSUCI lower division general education requirements.
6. A minimum of 10 units of lower division coursework in a technology area (computer technology, electronics technology, manufacturing technology, engineering, computer science, etc.).

Students who have not completed these 60 units prior to their admission to the program will be required to complete them at CSUCI or a community college. Course substitutions for these requirements may be made with the approval of the program chair.

### Upper Division Requirements

Mathematics and Science Requirements (7 Units)  
MATH 301 Discrete Mathematics for IT (3)  
Lab Science II Physics, Chemistry or Biology (4)

### Core Courses (24 Units)

IT 151 Data Structures for IT (3)  
IT 262 Computer Organization and Architecture for IT (3)  
IT 280 Web Programming (3)  
IT 362 Operating Systems for IT (3)  
IT 429 Computer Networks for IT (3)  
IT 420 Database Theory and Design for IT (3)  
MIS 310 Management Information Systems (3)  
MGT 307 Management of Organizations (3)

### Upper Division Interdisciplinary GE (9 Units)

As a graduation requirement, all CSUCI students must complete 48 units of General Education. Nine of the 48 units must be resident upper division, interdisciplinary courses numbered in the 330-349 or 430-449 ranges.

### Electives (15 units)

Choose 15 units from:

IT 400 e-Commerce (3)  
IT 401 Web Intelligence (3)  
IT 424 Computer System Security for IT (3)  
IT 402 Advanced IT Programming (3)  
IT 424 Computer System Security for IT (3)  
IT 464 Computer Graphics for IT (3)  
IT 469 Artificial Intelligence/Neural Networks for IT (3)

IT 490 Special Topics for IT (3)  
MATH 137 Strategies and Game Design (3)  
MATH 330 Mathematics and Fine Arts (3)  
MATH 437 Mathematics for Game Programming (3)  
COMP 232 Programming Languages (3)  
COMP 337 Survey of Computer Gaming (3)  
COMP 345 Digital Image Processing (3)  
COMP 350 Introduction to Software Engineering (3)  
COMP 425 Computer Game Programming (3)  
COMP 447 Societal Issues in Computing (3)  
COMP 449 Human Computer Interaction (3)  
COMP 452 Computational Bioinformatics (4)  
ART 324 Communication Design Technology: Web Design (3)  
ART 326 Digital Media Art: 3D Computer Animation (3)

(Additional electives to be added based on faculty availability).

### Capstone (5 units)

MGT 471 Project Management (3)  
IT 499 BSIT Capstone Project (2)

### BSIT Summary (120 units)

Lower Division Requirements (60)  
Mathematics and Science Requirements (7)  
Core Courses (24)  
Upper Division Interdisciplinary GE (9)  
Upper Division Electives (15)  
Capstone (5)

## PROPOSED COURSE OF STUDY

### Junior Year

#### FALL

Lab Science II (Bio, Chem, or Phys) (4)  
IT 262 Computer Organization and Architecture for IT (3)  
IT 151 Data Structures for IT (3)  
MATH 301 Discrete Mathematics for IT (3)  
ENGL 330 Writing in a Discipline (3)

#### SPRING

MGT 307 Management of Organizations (3)  
IT 362 Operating Systems for IT (3)  
IT 280 Web Programming (3)  
IT 420 Database Theory and Design for IT (3)  
COMP 447 Societal Issues in Computing (3)

### Senior Year

#### FALL

MIS 310 Management Information Systems (3)  
IT 429 Computer Networks for IT (3)  
IT 402 Advanced IT Programming (3)  
IT 400 e-Commerce (3)  
MGT 471 Project Management (3)

#### SPRING

COMP 449 Human Computer Interaction (3)  
IT 424 Computer System Security for IT (3)  
ART 324 Communication Design (3)  
IT 401 Web Intelligence (3)  
IT 499 BSIT Capstone (2)

## COMPUTER GAME DESIGN AND DEVELOPMENT

### PROGRAM OFFERED

- Minor in Computer Game Design and Development

The design and development of computer games is a rapidly growing academic area. It is highly interdisciplinary and is having a major impact on all levels of education. The gaming industry requires specialists with a variety of backgrounds. Game companies need artists, mathematicians and computer scientists, but also writers for story building, psychologists for creating a fun factor in games, and business-savvy professionals, who ensure financial soundness of the endeavors. In addition, the use of games by a growing part of the population has serious societal and legal implications that need to be studied. This computer gaming minor is a blend of several disciplines, including a wide range of academic areas, such as Art, Business, Mathematics, Psychology and Computer Science. This minor is meant to meet the need of an interdisciplinary curriculum that prepares students with a working knowledge necessary to pursue a career in the gaming industry. As such it is consistent with the interdisciplinary mission of CSUCI.

### CAREERS

This interdisciplinary minor will provide students with the skills needed for a variety of careers in the field of Computer Game Design and Development. Students in this minor will receive a foundation in artistic, mathematical, psychological and computer programming tools and techniques relevant to the design and development of computer games as well as in business methodologies applicable to Computer Gaming. Legal and societal implications of computer games will also be studied.

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## REQUIREMENTS FOR THE MINOR IN COMPUTER GAME DESIGN AND DEVELOPMENT (24-39 UNITS)

### Lower-Division Requirements (12 units) (including pre-/co-requisites)

COMP	105	Introduction to Programming (3)
MATH	137	Strategies and Game Design (3)
ART	205	Multimedia (3)
ART	206	Animation (3)

### Upper-Division Requirements (3 units) (including pre-/co-requisites)

COMP	437	Foundations of Computer Game Development (3)
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### Lower and Upper-Division Electives (9 units) (not including pre-requisite courses)

Select three courses from the following list.

*Note: Prerequisites are indicated in parentheses.*

*Note: If students choose among the following four courses the computer gaming minor may be completed with 24 units.*

ART	315	Animation Media and Techniques (3) (ART 206)
ART	327	Communication Design Technology: Multimedia Theory and Process (3) (ART 205)
COMP	337	Survey of Computer Gaming (3)
MGT	307	Management of Organizations (3)

*Courses on this list have prerequisites that may increase the number of units needed for the minor.*

ART	326	Digital Media Art: 3D Computer Animation (3) (ART 206, ART 312)
ART	492	Internship (1-3) (Senior Standing, Art Program Portfolio, and consent of the instructor)
ART	494	Directed Independent Study (1-3) (Senior Standing, Art Program Portfolio, and



		consent of the instructor)			of written proposal)
COMP	350	Introduction to Software Engineering (3) (COMP 150, COMP 151, COMP 162, COMP 232, COMP 262)	MATH	437	Mathematics for Game Development (3) (MATH 137 or MATH 300)
COMP	425	Computer Game Programming (3) (COMP 150, COMP 151)	MATH	354	Analysis of Algorithms (3) (MATH 300 and some computer programming experience)
COMP	464	Computer Graphics I (3) (COMP 150 COMP 151, COMP 162, COMP 232, COMP 262, COMP 350, MATH 240)	MATH	492	Internship (1-3) (Upper division standing and program approval of written proposal)
COMP	469	Artificial Intelligence (3) (COMP 232, COMP 262, COMP 350, COMP 362)	MATH	494	Independent Study (1-3) (Upper division standing and program approval of written proposal)
COMP	492	Internship in the Arts (1-3) (Upper division standing and program approval of written proposal)	MGT	471	Project Management (3) (MGT 307)
COMP	494	Independent Research (1-3) (Upper division standing and Program approval	PSY/ COMP	449	Human-Computer Interactions (3) (Programming experience or consent of instructor)



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## EARLY CHILDHOOD STUDIES

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### PROGRAM OFFERED

- Bachelor of Arts in Early Childhood Studies

The Bachelor of Arts Degree in Early childhood Studies will prepare graduates with the requisite knowledge and skills to effectively work with young children and their families from birth through eight years of age. Students will acquire knowledge and skills in order to serve typically developing young children and those with disabilities within the natural settings of home, community, and schools.

The academic program will offer core curricula and practica in early childhood development and pedagogy while highlighting the contextual influences of family, culture, language, and society. Embedded in the program are the following competencies set forth by the California Commission on Teacher Credentialing:

- Childhood Development Permit
- Subject Matter Preparation for the Multiple Subjects Teaching Credential
- Cross-cultural, Language, and Academic Development Teacher Preparation Certificate (CLAD)

The Early Childhood Studies Program is distinctive in that the major emphasizes the first eight years of life as extremely significant in children's development. The philosophy implicit in the Early Childhood Studies Program is reflective of the Position Statements and Early Childhood Professional Preparation Standards of the National Association for the Education of Young Children that include:

- Promoting child development and learning
- Building family and community relationships-- whatever their structure, language, ethnicity, and child's ability or disability
- Delivering developmentally effective assessment and teaching practices
- Preparing early childhood professionals beyond a foundational level in order to support the acquisition and application of advanced knowledge and skills.

There is a specific programmatic focus on the preparation of graduates who possess knowledge and skills in second language acquisition and literacy for your English learners.

### CAREERS

The program will prepare graduates for multiple career paths in the fields of teacher education, health and human services. These careers include infant/toddler and preschool teachers, early interventionists, administrators of centers for young children and families. The program will provide the subject matter preparation for the multiple subjects and special education teaching credentials, as well as related professional programs in health and human services such as child life specialists

and counselors. Graduates will also be prepared to pursue graduate studies in related fields such as, education, social work, human development, and counseling.

### PROGRAM LEARNING OUTCOMES AND CONTACT INFORMATION

- Students can teach and administer in programs serving young children (with and without disabilities) from birth through eight and their families
- Students are able to teach all subjects in their area of specialty
- Students understand and relate to diversity of languages and cultures in and among children and families
- Students can meet the diverse needs of all children including those with special needs
- Students are reflective and deliberative practitioners
- Students link content to pedagogy
- Students actively engage children in their learning
- Students integrate research, theory and best practice into their teaching

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## REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN EARLY CHILDHOOD STUDIES (120 UNITS)

### LOWER DIVISION REQUIREMENTS (47-48 UNITS)

#### Communication in the English Language & Critical Thinking (9 units)

Students must take a minimum of one course in each of the three subcategories: Oral Communication; English Writing; & Critical Thinking.

#### Major Courses (30 units)

ART	102	Multicultural Children's Art (3)	G.E. C1, C3b
BIOL	100	Exploring the Living World (4)	G.E. B2
<i>or</i>			
BIOL	170	Foundations of Life Science (4)	G.E. B2
PHSC	170	Foundations in Physical Science (4)	G.E. B1
COMP	101	Computer Literacy (3)	G.E. B4
ECS	101	Introduction to Early Childhood Education (3)	G.E. D
HIST	211	World Civilizations: Origins to 1500 (3)	G.E. D
ENGL	212	Introduction to Children's Literature (3)	
MATH	208	Modern Mathematics for Elementary Teaching I: Numbers & Problem Solving (3)	G.E. B3
PSY	210	Learning, Cognition, & Development (3)	G.E. D, E
<i>or</i>			
PSY	213	Developmental Psychology (3)	G.E. D, E
SPAN	101	Elementary Spanish I (4)	G.E. C3a
<i>or</i>			
SPAN	102	Elementary Spanish II (4)	G.E. C3a
<i>or</i>			
SPAN	201	Intermediate Spanish I (4)	G.E. C3a, C3b
<i>or</i>			
SPAN	201	Intermediate Spanish I (4)	G.E. C3a, C3b
<i>or</i>			
SPAN	211	Spanish for Heritage Speakers I (4)	G.E. C3a

*or*  
SPAN 212 Spanish for Heritage Speakers II (4)  
G.E. C3a

*or*  
SPAN 301 Advanced Spanish: Part I (3)

*or*  
SPAN 302 Advanced Spanish: Part III (3)

### American Institutions Requirements (6 units)

HIST	275	The United States to 1900 (3)	(U.S. History & Constitution Requirement)
POLS	150	American Political Institutions (3)	State and Local Government Requirement

### UPPER DIVISION REQUIREMENTS (49 UNITS)

ECS	320	Early Childhood Service Delivery Models & Programs for Young Children (3)
ECS	322	Early Childhood Program Administration (3)
ECS	325	Typical & Atypical Development: Birth-Age 8 (3)
ECS	460	Infant/Toddler Assessment & Intervention (3)
ECS	461	Infant/Toddler Student Teaching & Seminar (4)
ECS	468	Early Numeracy & Literacy for Children Ages 3-8: Multicultural/Multilingual (3)
ECS	470	Preschool/Primary Assessment & Teaching Strategies (3)
ECS	471	Preschool/Primary Student Teaching & Seminar (4)
EDMC	550	Theory & Methods of Bilingual Education (2) Senior standing
EDMC	560	Application of Mainstream & ELD Methods (2) Senior standing
EDUC	512	Equity, Diversity & Foundations of Schooling (3) G.E. C3b Senior standing
ENGL	475	Language in Social Context (3)
HIST	369	California History & Culture (3)
PHED	302	Motor Learning, Fitness & Development in Children (2) G.E. E
HLTH	322	Health Issues in Education (2) G.E. E
SPED/	345	Individuals with Disabilities in Society (3) PSY G.E. D, E, Interdisciplinary
SPED	546	Consultation & Collaboration with Families and Professionals (3) Senior standing

### UNIVERSITY ELECTIVES (23-24 UNITS)

Electives (17) (Students preparing for the multiple subjects or special education credentials are strongly urged to take MATH 308)  
Interdisciplinary Electives (6) G.E. C2

### TOTAL UNITS FOR GRADUATION

1. Lower Division Requirements	47-48
2. Upper Division Requirements	49
3. University Electives	23-24
<b>Total</b>	<b>120</b>



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## **ECONOMICS**

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**(SEE BUSINESS AND ECONOMICS)**

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## **EDUCATION**

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### **PROGRAMS OFFERED**

- Multiple Subject Teaching Credential
- Single Subject Teaching Credential
- Special Education Teaching Credential Level I
- Special Education Teaching Credential Level II
- Master of Arts in Education: Specializations in Educational Leadership and Special Education
- Administrative Services Credential
- Cross-Cultural Language and Academic Development (CLAD Certificate)
- Bilingual Cross Cultural Language and Academic Development (BCLAD Certificate to accompany Multiple Subject Teaching Credential)

The Education Program is devoted to the advancement of teaching and learning. Our image for teacher education begins with a vision for K-12 schools in the 21st century. The transformation from an industrial economy to an information society in the U.S., combined with an increasing emphasis on global issues and technology, demands more highly skilled adults to function effectively in the workforce. Young people who complete their schooling are the most educationally, socially and economically advantaged. They become adults who are lifelong learners and have the basic skills necessary for leading a full and rewarding life in an interdependent society and an information and service driven economy. The power of educators to make the fundamental difference in students' lives makes education the most important social service.

The Education Program builds from the foundation of the undergraduate Liberal Studies option in Teaching and Learning and academic majors in biology, English and mathematics (subject matter programs) and extends to Masters of Arts in Education. Our Education Programs contribute to the teaching profession by producing teachers and school administrators who believe that all students have the ability to achieve high standards, who adapt their teaching to reach all students, and who respect the diversity of all students. Our graduates are reflective about their teaching, their attitudes, and their ability to work in collaborative analytical teams. The Master of Arts in Education program focuses on Educational Leadership or Special Education. The Educational Leadership specialization leads to the Preliminary Administrative Services Credential. The Special Education specialization leads to the Educational Specialist Mild/Moderate Level II Credential

All credential programs have been approved by the

California Commission on Teacher Credentialing except the BCLAD certificate. Approval of this certificate is pending. Students who are hired by local public schools on emergency credentials may be eligible for an internship program. Contact the credential advisor or program chair for an internship application.

### **PROGRAM LEARNING OUTCOMES**

- Students can teach all subjects in their area of specialty.
- Students are able to teach children with English as first or second language.
- Students understand and relate to diversity of languages and cultures in and among children and families.
- Students can meet the diverse needs of all students including those with special needs.
- Students are reflective and deliberative practitioners.
- Students link content and pedagogy.
- Students actively engage children in their learning.
- Students integrate research, theory, and best educational practice into their teaching.

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## MULTIPLE SUBJECT TEACHING CREDENTIAL PROGRAM

This program specifically prepares teachers for the diversity of languages and cultures often encountered in California's public school classrooms. It prepares candidates to address the needs of students who speak English as a native language and/or as a second language in the elementary school setting. An underlying principle of the program is the belief that all children (regardless of race, ethnicity, gender, ability or economic status) are capable of learning. Emphasis is placed on the K-8 student as actively engaged in his/her learning.

## CAREERS

The Multiple Subject Credential Program prepares teachers to work with students in grades K-8 with responsibility for all subject areas in a self-contained classroom. Multiple Subject Credential Teachers most often teach in elementary, middle school, or self-contained classrooms.

## REQUIREMENTS FOR ADMISSION TO THE MULTIPLE SUBJECT TEACHING CREDENTIAL PROGRAM

- 1. Application.** Apply to both the University and the Education Program. Applications to the Program are available in the Credential Office.
- 2. CBEST Examination.** Students must pass the California Basic Educational Skills Test (CBEST) prior to admission to the Multiple Subject Teaching Credential Program. Students are urged to take this examination at the earliest possible time after deciding to pursue a teaching credential.
- 3. Subject Matter Preparation.** The CSU Channel Islands Liberal Studies in Teaching and Learning option best prepares students for the subject matter knowledge and skills required for the Multiple Subject Teaching Credential Program. All students must pass the California Subject Examination for Teachers (CSET) Multiple Subjects Examination or Multiple Subjects Assessment for Teachers (MSAT) prior to admission to the Multiple Subject Credential Program. The CSET or MSAT examination results are valid for five years from the date of passing and must be valid upon final completion of the program.
- 4. Prerequisite Courses in Education (16-20 units).** If taken at CSU Channel Islands, the course must be completed within seven (7) years prior to beginning the program with a grade of "C" or better. If an equivalent course at another college or university has been taken, it must have been completed within five (5) years prior to beginning the program.
 

ENGL	475	Language and Social Context (3)
EDUC	510	Learning Theory and Development Applied in Multicultural Education Contexts (3)
EDUC	512	Equity, Diversity and Foundations of Schooling (3)

- SPED 345 Individuals with Disabilities in Society (3)  
 EDUC 520 Observing and Guiding Behavior in Multilingual/Multicultural and Inclusive Classrooms (3)  
 EDUC 521 Field Experience (1)  
 For Bilingual, Crosscultural, Language, and Academic Development (BCLAD) add:  
 EDUC 445 The Chicano Mexican Child and Adolescent (4)

5. **U.S. Constitution:** Knowledge of the U.S. Constitution demonstrated by completion of two units (semester) of a college level course or college level examination.
6. **Grade Point Average.** A student must have a cumulative grade point average (GPA) of 2.67 or 2.75 in the last 60 semester units completed to be accepted. If a student does not have the required GPA, conditional admission may be available on a limited basis.
7. **Health Clearance.** Evidence of a negative tuberculin test is required. The tuberculin test is valid for four (4) years and must be valid through student teaching. The tuberculin test may be completed at a private physician's office, the County Health Department, or the CSU Channel Islands Student Health Center.
8. **Certificate of Clearance.** Students must possess or apply for a valid Certificate of Clearance as part of admission. A copy of an emergency permit satisfies the clearance requirement. The Certificate of Clearance is a background check and clearance conducted by the Department of Justice and Federal Bureau of Investigation.
9. **Two Sets of Official Transcripts.** One official set of transcripts from each of the colleges or universities attended must be mailed directly to the CSU Channel Islands Office of Admissions and Records, and one official set of transcripts must be submitted to the Credential Office with the program application.
10. **Two Letters of Recommendation.** Two letters of recommendation from faculty, employers, and/or others who are knowledgeable about the student's personal qualities and potential to work with children must be submitted with the program application.
11. **Experience.** At least 45 hours of documented field experience in a K-8 classroom or an equivalent documented field experience must be completed.
12. **Bachelor's Degree.** A bachelor's degree or all undergraduate academic subjects must be satisfied toward a bachelor's degree before entering a teacher education program. A bachelor's degree is a requirement for teacher certification.
13. **Writing Sample.** Writing samples are required as part of the application process. The writing sample includes a 500-600 word essay describing the applicant's interest in teaching children with the diversity of languages and cultures represented in

California schools.

14. **Interview.** An Education Program Admissions Committee will interview candidates once all other portions of the admissions requirements are complete.

**Please Note:** The California Commission on Teacher Credentialing (CCTC) requires passing the Reading Instruction Competence Assessment (RICA) for the initial issuance of a Multiple Subject Credential. It is recommended that the Assessment be taken after completion of the Literacy I course in the credential program. Certification in adult, infant and child CPR competency is required by the CCTC for an initial issuance of a teaching credential.

#### **BCLAD: Spanish Emphasis Language Assessment**

Students who wish to complete the BCLAD Emphasis in Spanish should sign up for the language assessment prior to admission. This must be passed prior to the beginning of bilingual student teaching. Please visit the website of the California Commission on Teacher Credentialing for information regarding test 6: The Language of Emphasis, for testing dates: <http://www.ctc.ca.gov>.

**Program Maintenance Requirements:** As a condition of remaining in the program, students must maintain a grade point average of 3.0 (B) or better, with no course grades lower than a C+.

### **REQUIREMENTS FOR THE MULTIPLE SUBJECT TEACHING CREDENTIAL**

#### **Full-time Multiple Subject Credential Program (34-38 Units)**

##### **FIRST SEMESTER (18-20 UNITS)**

- EDMS 522 Literacy 1: Multicultural/Multilingual (3)  
 EDMS 526 Modern Methods in Mathematics Teaching (3)  
 EDMS 527 History, Social Studies and Integrated Arts (4)  
 EDMS 565 Initial Student Teaching Multiple Subject (7)  
 EDMS 566 Initial Student Teaching Seminar Multiple Subject (1)

For BCLAD Add:

- EDML 563 Primary Language Pedagogy and Literacy 1 (2)

##### **SECOND SEMESTER (16-18 UNITS)**

- EDMS 523 Literacy 2: Multicultural/Multilingual (4)  
 EDMS 529 Science, Health & Physical Education (4)  
 EDMS 575 Advanced Student Teaching Multiple Subject (7)  
 EDMS 576 Advanced Student Teaching Seminar Multiple Subject (1)

For BCLAD Add:

- EDML 564 Primary Language Pedagogy and Literacy 2 (2)

## Part-time Multiple Subject Credential Program (38-42 Units)

Students interested in a part-time or internship program must consult with the Multiple Subject program advisor to plan their course of study.

### FIRST SEMESTER (8-10 UNITS)

- EDMS 522 Literacy 1: Multicultural/Multilingual (3)  
EDMS 526 Modern Methods in Mathematics Teaching (3)  
EDMS 562 Field Experience Multiple Subject (Part-time program) (2)

For BCLAD Add:

- EDML 563 Primary Language Pedagogy and Literacy 1 (2)

### SECOND SEMESTER (10 UNITS)

- EDMS 523 Literacy 2: Multicultural/Multilingual (4)  
EDMS 527 History, Social Studies & Integrated Arts (4)  
EDMS 562 Field Experience: Multiple Subject (Part-time program) (2)

### THIRD SEMESTER (12 UNITS)

- EDMS 529 Science, Health & Physical Education (4)  
EDMS 565 Initial Student Teaching Multiple Subject (7)  
EDMS 566 Initial Student Teaching Seminar Multiple Subject (1)

### FOURTH SEMESTER (8-10 UNITS)

- EDMS 575 Advanced Student Teaching Multiple Subject (7)  
EDMS 576 Advanced Student Teaching Seminar Multiple Subject (1)

For BCLAD Add:

- EDML 564 Primary Language Pedagogy and Literacy 2 (2)

## SINGLE SUBJECT TEACHING CREDENTIAL PROGRAM

This program specifically prepares teachers for the diversity of languages and cultures often encountered in California Public Schools. The program prepares candidates to address the needs of students who speak English as a native language and/or as a second language in the secondary school setting. An underlying principle of the program is that all students (regardless of race, ethnicity, gender, ability or economic status) are capable learners. Currently, Single Subject Credentials are offered in mathematics, English and the sciences.

### CAREERS

The Single Subject Teaching Credential Program prepares teachers to work with students in subject specific content areas in departmentalized schools. Single Subject Credential Teachers most often teach in departmentalized middle, junior high and high schools.

### REQUIREMENTS FOR ADMISSION TO THE SINGLE SUBJECT TEACHING CREDENTIAL PROGRAM

- 1. Application.** Apply to both the University and the Education Program. Applications for the Program are available in the Credential Office.
- 2. CBEST Examination.** Students must pass the California Basic Educational Skills Test (CBEST) prior to admission to the Single Subject Teaching Credential Program. Students are urged to take this examination at the earliest possible time after deciding to pursue a teaching credential. CBEST must be passed before certification or intern teaching.
- 3. Subject Matter Preparation.** Prior to admission to the Single Subject Teaching Credential Program, students may complete a state approved subject matter program in the specific content area from other colleges or universities. Students who have not completed a state-approved subject matter program must pass the California Subject Examination for Teachers (CSET) in the subject matter area of the single subject credential prior to admission to the Credential Program. The CSET examination results are valid for five years from the date of passing and must be valid upon final completion of the program.
- 4. Prerequisite Courses in Education (13 units).** If taken at CSU Channel Islands, the courses must be completed within seven (7) years prior to beginning the program with a grade of "C" or better. If an equivalent course at another college or university has been taken, it must have been completed within five (5) years prior to beginning the program.
  - EDUC 512 Equity, Diversity and Foundations of Schooling (3)
  - EDUC 520 Observing and Guiding Behavior in Multicultural/Multilingual and Inclusive Classrooms (3)
  - EDUC 521 Field Experience (1)
  - ENGL 475 Language in Social Context (3)





SPED 345 Individuals with Disabilities in Society (3)

5. **U.S. Constitution:** Knowledge of the U.S. Constitution demonstrated by completion of two units (from a semester program) of a college level course or college level examination.
6. **Grade Point Average.** A student must have a cumulative grade point average (GPA) of 2.67 or 2.75 in the last 60 semester units completed to be admitted into the Single Subject Credential Program offered at CSUCI. If a student does not have the required GPA, conditional admission may be available on a limited basis.
7. **Health Clearance.** Evidence of a negative tuberculin test is required. The tuberculin clearance is valid for four (4) years and must be valid through student teaching. The tuberculin test may be completed at a private physician's office, the County Health Department, or the CSUCI Student Health Center.
8. **Certificate of Clearance.** Students must possess or apply for a valid *Certificate of Clearance* as part of admission to the Teaching Credential Program. A copy of an emergency permit satisfies the clearance requirement. The *Certificate of Clearance* is a background check and clearance conducted by the Department of Justice and Federal Bureau of Investigation.
9. **Two Sets of Official Transcripts.** One official set of transcripts from each of the colleges or universities attended must be mailed directly to the CSU Channel Islands Admissions and Records, and one official set of transcripts must be submitted to the Education Program Credential office with the program application.
10. **Two Letters of Recommendation.** Two letters of recommendation from faculty, employers, and/or others who are knowledgeable about the student's personal qualities and potential to work with children must be submitted with the program application.
11. **Experience.** At least 45 hours of documented field experience in a 7-12 classroom or an equivalent documented field experience must be completed.
12. **Bachelor's Degree.** A bachelor's degree or, for the student still in his/her last term, all undergraduate academic subjects for a bachelor's degree must be completed or in progress before entering the Single Subject Teaching Credential Program. A bachelor's degree is a requirement for teacher certification.
13. **Writing Sample.** Writing samples are required as part of the application process. The writing sample includes a 500-600 word essay describing the applicant's interest in teaching children with the diversity of languages and cultures represented in California schools.
14. **Interview.** An interview is conducted by the Education Program Admissions Committee once all other portions of the admissions requirements are complete. Students are not eligible for financial aid as a credential student until all admissions requirements are met including the interview.

**Please Note:** Certification in adult, infant and child Cardiopulmonary Resuscitation (CPR) competency is required by the California Commission on Teacher Credentialing (CCTC) for an initial issuance of a teaching credential.

#### Program Maintenance Requirements

As a condition of remaining in the program, students must maintain a grade point average of 3.0 (B) or better, with no course grades lower than a C+.

#### REQUIREMENTS FOR THE SINGLE SUBJECT TEACHING CREDENTIAL (32 UNITS)

EDSS	530	General Secondary School Methods (3)
EDSS	540	Literacy in Secondary Schools (3)
EDSS	550	Access to Learning: English Language Learners (2)
EDSS	560	Access to Learning: Special Needs Learners (2)
EDSS	570	Field Experience Middle School (Part Time Program) (1)
EDSS	571	Student Teaching Seminar Middle School (2)
EDSS	575	Student Teaching Middle School (6)
EDSS	580	Field Experience High School (Part-Time Program) (1)
EDSS	581	Student Teaching Seminar High School (2)
EDSS	585	Student Teaching High School (6)

Students take **two** courses from **one** of the following subject matter areas: mathematics, science or English:

Students seeking a single subject credential in mathematics take the following courses:

EDSS	531	Teaching Mathematics in Middle Schools (3)
EDSS	541	Teaching Mathematics in Secondary Schools (3)

Students seeking a single subject credential in science take the following courses:

EDSS	532	Teaching Science in Middle Schools (3)
EDSS	542	Teaching Life/Physical/Geo- Science in Secondary Schools (3)

Student seeking a Single Subject Credential in English take the following courses:

EDSS	533	Teaching English in Middle Schools (3)
EDSS	543	Teaching English in High Schools (3)

Students completing the program in two semesters should enroll in the full-time program. Students planning to take three to six semesters to complete the program should enroll in the part-time program. Students who are teaching interns enroll in the part-time program and may choose option A, B, or C to complete the program.

Placements for the first semester will be in local middle schools. Second semester placements will be in local high schools.



Students must be enrolled in either field placement or student teaching each semester.

### Full-time Single Subject Program (32 Units)

#### First Semester (16 Units)

EDSS 530 General Secondary School Methods (3)  
EDSS 550 Access to Learning: English Language Learners (2)

*or*

EDSS 560 Access to Learning: Special Needs Learners (2)  
EDSS 571 Student Teaching Seminar Middle School (2)  
EDSS 575 Student Teaching Middle School (6)

Students seeking a single subject credential in mathematics take one of the following courses:

EDSS 531 Teaching Mathematics in Middle Schools (3)

*or*

EDSS 541 Teaching Mathematics in Secondary Schools (3)

Students seeking a single subject credential in science take **one** of the following courses:

EDSS 532 Teaching Science in Middle Schools (3)

*or*

EDSS 542 Teaching Life/Physical/Geo- Science in Secondary Schools (3)

Students seeking a single subject credential in English take one of the following courses:

EDSS 533 Teaching English in Middle Schools (3)

*or*

EDSS 543 Teaching English in High Schools (3)

#### Second Semester (16 Units)

EDSS 540 Literacy in Secondary Schools (3)  
EDSS 550 Access to Learning: English Language Learners (2)

*or*

EDSS 560 Access to Learning: Special Needs Learners (2)  
EDSS 581 Student Teaching Seminar High School (2)  
EDSS 585 Student Teaching High School (6)

Students seeking a single subject credential in mathematics take one of the following courses:

EDSS 531 Teaching Mathematics in Middle Schools (3)

*or*

EDSS 541 Teaching Mathematics in Secondary Schools (3)

Students seeking a single subject credential in science take one of the following courses:

EDSS 532 Teaching Science in Middle Schools (3)

*or*

EDSS 542 Teaching Life/Physical/Geo- Science in Secondary Schools (3)

Students seeking a single subject credential in English take one of the following courses:

EDSS 533 Teaching English in Middle Schools (3)

*or*

EDSS 543 Teaching English in High Schools (3)

### Intern and Part-time Single Subject Program (33-36 Units)

#### OPTION A (36 UNITS)

##### First Semester (6 Units)

EDSS 530 General Secondary School Methods (3)  
EDSS 550 Access to Learning: English Language Learners (2)

*or*

EDSS 560 Access to Learning: Special Needs Learners (2)  
EDSS 570 Field Experience Middle School (1)

##### Second Semester (6 Units)

EDSS 540 Literacy in Secondary Schools (3)  
EDSS 550 Access to Learning: English Language Learners (2)

*or*

EDSS 560 Access to Learning: Special Needs Learners (2)  
EDSS 580 Field Experience High School (1)

##### Third Semester (4 Units)

EDSS 570 Field Experience Middle School (1)

Students seeking a single subject credential in mathematics take **one** of the following courses:

EDSS 531 Teaching Mathematics in Middle Schools (3)

*or*

EDSS 541 Teaching Mathematics in Secondary Schools (3)

Students seeking a single subject credential in science take **one** of the following courses:

EDSS 532 Teaching Science in Middle Schools (3)

*or*

EDSS 542 Teaching Life/Physical/Geo- Science in Secondary Schools (3)

Students seeking a single subject credential in English take one of the following courses:

EDSS 533 Teaching English in Middle Schools (3)

*or*

EDSS 543 Teaching English in High Schools (3)

##### Fourth Semester (4 Units)

EDSS 580 Field Experience High School (1)

Students seeking a single subject credential in mathematics take one of the following courses:  
EDSS 531 Teaching Mathematics in Middle Schools (3)  
*or*  
EDSS 541 Teaching Mathematics in Secondary Schools (3)

Students seeking a single subject credential in science take one of the following courses:  
EDSS 532 Teaching Science in Middle Schools (3)  
*or*  
EDSS 542 Teaching Life/Physical/Geo- Science in Secondary Schools (3)

Students seeking a single subject credential in English take one of the following courses:  
EDSS 533 Teaching English in Middle Schools (3)  
*or*  
EDSS 543 Teaching English in High Schools (3)

#### **Fifth Semester (8 Units)**

EDSS 571 Student Teaching Seminar Middle School (2)  
EDSS 575 Student Teaching Middle School (6)

#### **Sixth Semester (8 Units)**

EDSS 581 Student Teaching Seminar High School (2)  
EDSS 585 Student Teaching High School (6)

### **OPTION B (34 UNITS)**

#### **First Semester (6 Units)**

EDSS 530 General Secondary School Methods (3)  
EDSS 550 Access to Learning: English Language Learners (2)  
*or*  
EDSS 560 Access to Learning: Special Needs Learners (2)  
EDSS 570 Field Experience Middle School (1)

#### **Second Semester (6 Units)**

EDSS 540 Literacy in Secondary Schools (3)  
EDSS 550 Access to Learning: English Language Learners (2)  
*or*  
EDSS 560 Access to Learning: Special Needs Learners (2)  
EDSS 580 Field Experience High School (1)

#### **Third Semester (11 Units)**

EDSS 571 Student Teaching Seminar Middle School (2)  
EDSS 575 Student Teaching Middle School (6)

Students seeking a single subject credential in mathematics take one of the following courses:  
EDSS 531 Teaching Mathematics in Middle Schools (3)  
*or*  
EDSS 541 Teaching Mathematics in Secondary Schools (3)

Students seeking a single subject credential in science take one of the following courses:  
EDSS 532 Teaching Science in Middle Schools (3)  
*or*  
EDSS 542 Teaching Life/Physical/Geo- Science in Secondary Schools (3)

Students seeking a single subject credential in English take one of the following courses:  
EDSS 533 Teaching English in Middle Schools (3)  
*or*  
EDSS 543 Teaching English in High Schools (3)

#### **Fourth Semester (11 Units)**

EDSS 581 Student Teaching Seminar High School (2)  
EDSS 585 Student Teaching High School (6)

Students seeking a Single Subject Credential in mathematics take **one** of the following courses:  
EDSS 531 Teaching Mathematics in Middle Schools (3)  
*or*  
EDSS 541 Teaching Mathematics in Secondary Schools (3)

Students seeking a Single Subject Credential in science take **one** of the following courses:  
EDSS 532 Teaching Science in Middle Schools (3)  
*or*  
EDSS 542 Teaching Life/Physical/Geo-Science in Secondary Schools (3)

Students seeking a Single Subject Credential in English take **one** of the following courses:  
EDSS 533 Teaching English in Middle Schools (3)  
*or*  
EDSS 543 Teaching English in High Schools (3)

### **OPTION C (33 UNITS)**

#### **First Semester (6 Units)**

EDSS 530 General Secondary School Methods (3)  
EDSS 550 Access to Learning: English Language Learners (2)  
*or*  
EDSS 560 Access to Learning: Special Needs Learners (2)  
EDSS 570 Field Experience Middle School (1)

## Second Semester (15 Units)

EDSS 540 Literacy in Secondary Schools (3)  
EDSS 550 Access to Learning: English Language Learners (2)

or

EDSS 560 Access to Learning: Special Needs Learners (2)  
EDSS 571 Student Teaching Seminar Middle School (2)  
EDSS 575 Student Teaching Middle School (6)

Students seeking a single subject credential in mathematics take one of the following courses:

EDSS 531 Teaching Mathematics in Middle Schools (3)

or

EDSS 541 Teaching Mathematics in Secondary Schools (3)

Students seeking a single subject credential in science take one of the following courses:

EDSS 532 Teaching Science in Middle Schools (3)

or

EDSS 542 Teaching Life/Physical/Geo- Science in Secondary Schools (3)

Students seeking a single subject credential in English take one of the following courses:

EDSS 533 Teaching English in Middle Schools (3)

or

EDSS 543 Teaching English in High Schools (3)

## Third Semester (11 Units)

EDSS 581 Student Teaching Seminar High School (2)  
EDSS 585 Student Teaching High School (6)

Students seeking a single subject credential in mathematics take one of the following courses:

EDSS 531 Teaching Mathematics in Middle Schools (3)

or

EDSS 541 Teaching Mathematics in Secondary Schools (3)

Students seeking a single subject credential in science take one of the following courses:

EDSS 532 Teaching Science in Middle Schools (3)

or

EDSS 542 Teaching Life/Physical/Geo- Science in Secondary Schools (3)

Students seeking a single subject credential in English take one of the following courses:

EDSS 533 Teaching English in Middle Schools (3)

or

EDSS 543 Teaching English in High Schools (3)

Students interested in a part-time or an internship program must consult with the Single Subject Program Advisor to plan their course of study.

## SPECIAL EDUCATION TEACHING CREDENTIAL: MILD/MODERATE DISABILITIES, LEVEL I

The program prepares candidates to teach students with mild/moderate disabilities in self-contained special education and general education classrooms. The program specifically prepares candidates for the diversity of languages and cultures often encountered in California's public school classrooms. The program prepares candidates to address the needs of students who speak English as a native language and/or as a second language in the elementary or secondary school setting. An underlying principle of the program is the belief that all children (regardless of race, ethnicity, gender, ability or economic status) are capable of learning. Emphasis is placed on the K-22 student actively engaged in his/her learning.

This is a post baccalaureate program that has two levels. Level I prepares candidates for a preliminary certificate. After Level I is successfully accomplished, Level II is completed while working in a special education setting and requires the collaboration of the university preparation program and the candidate's employing school department. Successful completion of the Level II program will result in the candidate's eligibility for a professional certificate.

## CAREERS

The Education Specialist Program prepares candidates to complete the California Commission on Teacher Credentialing (CCTC) standards for the preparation of teachers of children with mild and moderate disabilities from kindergarten to grade 12.

## REQUIREMENTS FOR ADMISSION TO THE EDUCATION SPECIALIST LEVEL I TEACHING CREDENTIAL PROGRAM

1. **Application.** Apply to both the University and the Education Program. Applications to the Program are available in the Credential Office.
2. **CBEST Examination.** Students must pass the California Basic Educational Skills Test (CBEST) prior to admission. Students are urged to take this examination at the earliest possible time after deciding to pursue a teaching credential.
3. **Subject Matter Preparation.** The CSU Channel Islands Liberal Studies Option - Teaching and Learning best prepares students for the subject matter knowledge and skills required for the Education Specialist Teaching Credential Program. Students may also complete a state-approved multiple subjects subject matter program from other California colleges or universities. Students who have not completed a state-approved subject matter program must pass a California Subject Examination for Teachers (CSET) in any content area or Multiple Subjects Assessment for Teachers (MSAT) prior to admission to the

Education Specialist Credential Program. The CSET or MSAT examination results are valid for five years from the date of passing and must be valid upon final completion of the program. Subject matter requirements are currently being revised by the CCTC. Please consult with the Credential Advisor for the latest regulations.

4. **Prerequisite Courses in Education (12 units).** If taken at CSU Channel Islands, the course must be completed within seven (7) years prior to beginning the program with a grade of "C" or better. If an equivalent course at another college or university has been taken, it must have been completed within five (5) years prior to beginning the program.  
ENGL 475 Language and Social Context (3)  
EDUC 510 Learning theory and development applied in multicultural education contexts (3)  
EDUC 512 Equity, Diversity and Foundations of Schooling (3)  
SPED 345 Individuals with Disabilities in Society (3)
5. **U.S. Constitution.** Knowledge of the U.S. Constitution demonstrated by completion of two units (semester) of a college level course or college level examination.
6. **Grade Point Average.** A student must have a cumulative grade point average (GPA) of 2.67 or 2.75 in the last 60 semester units completed. If a student does not have the required GPA, conditional admission may be available on a limited basis.
7. **Health Clearance.** Evidence of a negative tuberculin test is required. The tuberculin test is valid for four (4) years and must be valid through student teaching. The tuberculin test may be completed at a private physician's office, the County Health Department, or the CSUCI Student Health Center.
8. **Certificate of Clearance.** Students must possess or apply for a valid *Certificate of Clearance* as part of admission to the Teaching Credential Program. A copy of an emergency permit satisfies the clearance requirement. The *Certificate of Clearance* is a background check and clearance conducted by the Department of Justice and Federal Bureau of Investigation.
9. **Two Sets of Official Transcripts.** One official set of transcripts from each of the colleges or universities attended must be mailed directly to the CSU Channel Islands Admissions and Records, and one official set of transcripts must be submitted to the Credential office with the program application.
10. **Two Letters of Recommendation.** Two letters of recommendation from faculty, employers, and/or others who are knowledgeable about the student's personal qualities and potential to work with children must be submitted with the program application.
11. **Experience.** At least 45 hours of documented field experience in a K-12 or special education classroom or an equivalent documented field experience must

be completed.

12. **Bachelor's Degree.** A bachelor's degree or all undergraduate academic subjects must be satisfied toward a bachelor's degree before entering a teacher education program. A bachelor's degree is a requirement for teacher certification.
13. **Writing Sample.** Writing samples are required as part of the application process. The writing sample includes a 500-600 word essay describing the applicant's interest in teaching children with disabilities and with the diversity of languages and cultures represented in California schools.
14. **Interview.** An interview is conducted by an Education Program Admissions Committee once all other portions of the admissions requirements are complete.

**Please Note:** The CCTC requires passing the Reading Instruction Competence Assessment (RICA) for the initial issuance of an Education Specialist Credential. It is recommended that the Assessment be taken after completion of Literacy I.

#### Program Maintenance Requirements

As a condition of remaining in the program, students must maintain a grade point average of 3.0 (B) or better, with no course grades lower than a C+.

### REQUIREMENTS FOR THE EDUCATION SPECIALIST LEVEL I TEACHING CREDENTIAL

#### Full-time Education Specialist Level I Credential Program (35 Units)

##### First Semester (17 units)

- EDMS 522\*+Literacy 1: Multicultural/Multilingual (3)  
EDMS 526\*+Modern Methods in Mathematics Teaching (3)  
SPED 541 Foundations of Special Education (2)  
SPED 544++Inclusionary Teaching Methods (2)  
SPED 546+ Consultation and Communication with Families and Professionals (3)  
SPED 570 Student Teaching in Special Education I (3)  
SPED 571 Student Teaching Seminar (1)

##### Second Semester

- EDSS 540\*\*+Literacy in Secondary Schools (3)  
SPED 542+ Managing Learning Environments (3)  
SPED 543++Educating Diverse Learners with Mild to Moderate Disabilities (3)  
SPED 545+ Assessment of Students with Disabilities (3)  
SPED 580 Student Teaching in Special Education II (8)  
SPED 581 Student Teaching Seminar (1)

\* Not required of individuals holding a valid Multiple Subject Credential

\*\* Not required of individuals holding a valid Single Subject Credential

+ Coursework requires field experience (SPED 562, EDMS 562) and/or observation time at a school site.

++ Course must be taken with SPED 562, 570, 580 or full time teaching.



Note: Students must demonstrate competence teaching students in elementary and secondary settings. This may occur through field experience, student teaching and prior teaching experiences.

Students interested in a part-time or an internship program must consult with the Education Specialist Advisor to plan their course of study.

### Intern Program Education Specialist Level I Credential Program (37 Units)

#### First Semester (11 Units)

- EDMS 522\*+Literacy 1: Multicultural/Multilingual (3)
- SPED 541 Foundations of Special Education (2)
- SPED 546+ Consultation and Communication with Families and Professionals (3)
- SPED 585 Intern Field Support and Seminar (3)

#### Second Semester (9 Units)

- EDSS 540\*\*+Literacy in Secondary Schools (3)
- SPED 542+ Managing Learning Environments (3)
- SPED 585 Intern Field Support and Seminar (3)

#### Third Semester (8 Units)

- SPED 544++Inclusionary Teaching Methods (2)
- EDMS 526\*+Modern Methods in Mathematics Teaching (3)
- SPED 585 Intern Field Support and Seminar (3)

#### Fourth Semester (9 Units)

- SPED 543++Educating Diverse Learners with Mild to Moderate Disabilities (3)
- SPED 545+ Assessment of Students with Disabilities (3)
- SPED 585 Intern Field Support and Seminar (3)

\* Not required of individuals holding a valid Multiple Subject Credential

\*\* Not required of individuals holding a valid Single Subject Credential

+ Coursework requires field experience (SPED 562, EDMS 562) and/or observation time at a school site.

++ Course must be taken with SPED 562, 570, 580 or full time teaching.

Note: Students must demonstrate competence teaching students in elementary and secondary settings. This may occur through field experience, student teaching and prior teaching experiences.

Students interested in a part-time or an internship program must consult with the Education Specialist Advisor to plan their course of study.

## EDUCATION SPECIALIST: MILD/MODERATE DISABILITIES LEVEL II CREDENTIAL

The Education Specialist: Mild/Moderate Disabilities Level II Credential Program at CSUCI is an advanced professional training program for Special Education Teachers. The California Commission on Teacher Credentialing (CCTC) requires that candidates complete the Level II Credential within five years of completion of a Level I Education Specialist Credential. CSUCI's Level II Program builds on the goals and objectives of our Level I Program. This program focuses on the diversity of students, collaboration between professionals and families, and effective instructional practices for students with disabilities. In alignment with the California state standards, the Level II Program has formed a partnership with local school districts. Candidates for the Level II Credential are employed teachers who, in collaboration with their employing school district and the University, develop an induction plan. The induction plan describes the coursework and non-university related professional development activities in which the candidate will participate. Up to 25% of the student's induction plan may be completed through approved non-University activities. During the induction planning stage, the candidate will identify an area of specialization that will be his/her area of focus. University and non-university activities guide the candidate in developing the expertise in the following areas: data-based decision making; behavioral, emotional and environmental supports; current perspectives in special education; transitions from school to work; advanced assessment techniques; curriculum and instruction; and advanced collaboration and consultation with families and professionals.

### REQUIREMENTS FOR ADMISSION TO EDUCATION SPECIALIST LEVEL II

1. **CBEST verification.**
2. **Education Specialist.** Mild/Moderate Disabilities Level I Credential.
3. **Evidence of employment as a Special Education teacher.** The Educational Specialist: Mild/Moderate Disabilities Credential Level II requires the student to be employed as a Special Education teacher.
4. **Grade Point Average.** Cumulative grade point average of 3.0 in post baccalaureate or graduate work.
5. **Two Letters of Recommendation.** Two letters of recommendation from professionals who are knowledgeable about the candidate's professional work, at least one of whom is the candidate's current supervisor or administrator. Letters from university faculty describing the candidate's ability to successfully complete graduate work are also recommended.
6. **Interview.** Interview with the Education Programs Admissions Committee.
7. **Writing Sample.** A written statement of purpose in a 400-600 word essay. This essay includes reflections on personal and professional goals, and how the candidate plans to acquire the knowledge and skills in order to achieve these goals.

**Note:** Candidates are required to complete courses in health education and technology and have certification in adult, infant and child Cardiopulmonary Resuscitation (CPR) for CCTC to issue the Level II credential.

### **Program Maintenance Requirements**

As a condition of remaining in the program, students must maintain a grade point average of 3.0 (B) or better with no course grades lower than a C+. The progress of students in meeting this requirement and in progressing toward completion in a timely manner will be monitored at the conclusion of each term as part of the Induction Planning and Evaluation courses SPED 640 & 641.

## **REQUIREMENTS FOR THE EDUCATION SPECIALIST LEVEL II TEACHING CREDENTIAL**

### **Option 1: Four semester plan (17 Units)**

#### **FIRST SEMESTER (4 UNITS)**

SPED 640 Induction Planning and Support (repeatable) (1)

SPED 641 Advanced Perspectives in Special Education (3)

#### **SECOND SEMESTER (4 UNITS)**

SPED 640 Induction Planning and Support (repeatable) (1)

SPED 642 Advanced Behavior and Environmental Support (3)

#### **THIRD SEMESTER (4 UNITS)**

SPED 640 Induction Planning and Support (repeatable) (1)

SPED 643 Advanced Assessment and Instructional Practices for Diverse Learners (3)

#### **FOURTH SEMESTER (5 UNITS)**

SPED 646 Advanced Collaborative Partnerships and Effective Communication in School Settings (3)

SPED 647 Transition and Career Education (1)

SPED 649 Induction Evaluation (1)

### **Option 2: Two semester plan (15 Units)**

#### **FIRST SEMESTER (7 UNITS)**

SPED 640 Induction Planning and Support (1)

SPED 641 Advanced Perspectives in Special Education (3)

SPED 643 Advanced Assessment and Instructional Practices for Diverse Learners (3)

#### **SECOND SEMESTER (8 UNITS)**

SPED 642 Advanced Behavior and Environmental Support (3)

SPED 646 Advanced Collaborative Partnerships and Effective Communication in School Settings (3)

SPED 647 Transition and Career Education (1)

SPED 649 Induction Evaluation (1)

## **MASTER OF ARTS IN EDUCATION**

The Master of Arts in Education provides advance preparation for educational professionals. Two specializations are offered at CSU Channel Islands: Educational Leadership and Special Education.

### **EDUCATIONAL LEADERSHIP SPECIALIZATION**

The Educational Leadership Specialization prepares candidates to complete the California Commission on Teacher Credentialing (CCTC) Preliminary Administrative Services Credential. Completion of this Level I administrative program prepares students to serve in positions of educational leadership in the California Public Schools. Through integration of course work and field experiences students are provided multiple opportunities to learn and practice the California Professional Standards for School Leaders. The program offers students understanding and application of leadership skills related to relationship building, communication, and the ability to apply, model, and analyze curriculum, instructional strategies, assessment, standards-based accountability systems, and data-based school improvement. The program also develops each student's understanding of basic school administrative responsibilities including resource management, personnel supervision, and daily operational issues related to safety, law, and public policy.

Prior to recommendation for certification, University faculty determine eligibility, based on fully documented evidence, that each student has demonstrated satisfactory performance on the full range of standards set forth by the CCTC. A Masters degree is required for CSU Channel Islands to recommend a candidate Preliminary Administrative Services Credential. Candidates already possessing a Masters degree who successfully complete the required 30 units will be recommended for the Level I credential without completing a research project.

### **CAREERS**

The Master of Arts in Education: Educational Leadership Specialization prepares candidates for leadership positions as school principals and for a variety of school leadership positions for which the Preliminary Administrative Services Credential is required. It prepares educational leaders who can develop, coordinate, and assess instructional programs; evaluate and supervise certificated and classified personnel, facilitate and manage safe and secure school learning environments, manage school site, district, or county level fiscal services; and develop, coordinate and supervise student support services.

## REQUIREMENTS FOR ADMISSION TO THE MASTER OF ARTS IN EDUCATION AND PRELIMINARY ADMINISTRATIVE SERVICES CREDENTIAL

1. **Application.** Apply to both the University Admissions Office and the Education Credential Office. (see below)
2. **One set of Official Transcripts.** One official set of transcripts from each of the colleges or universities attended must be mailed directly to the CSU Channel Islands Admissions Office. Cumulative grade point average of 3.0 is required to be accepted into the Preliminary Administrative Services Credential Program.
3. **CBEST Examination.** Copy of card indicating passage of the California Basic Education Skills Test (CBEST) or verification that you have taken the test prior to admission to the program. Passage of CBEST is required for certification.
4. **California Teaching Credential.** Copy of a valid California teaching credential requiring a baccalaureate degree and a program of professional preparation, including student teaching; or a valid California Designated Subjects teaching credential provided the applicant also possesses a baccalaureate degree; or a valid California services credential in Pupil Personnel Services, Health Services, Library Media Teacher Services, or Clinical or Rehabilitative Services requiring a baccalaureate degree and a profession preparation program including field practice or the equivalent submitted to the Education Credential Office.
5. **Experience.** Documentation of at least three years of full-time successful teaching experience (substitute or part-time service does not apply).
6. **Two Letters of Recommendation.** Two letters of recommendation from professionals who are knowledgeable of the candidate's professional work at least one of whom is the candidate's current school administrator.
7. **Interview.** Interview with Education Program Admissions Committee.
8. **Writing Sample.** A written statement of purpose (500- 600 word essay) describing why the candidate desires to be a school administrator serving the children and families of the diverse communities of California. This essay will include reflection on personal professional goals and ways in which the knowledge and skills will be developed to achieve these goals.

## REQUIREMENTS FOR THE MASTER OF ARTS IN EDUCATION: SPECIALIZATION IN EDUCATIONAL LEADERSHIP

### Prerequisites

- Advanced coursework or a component of an induction program focusing on the integration of technology into Education  
EDUC 561 Teaching with Technology (3)  
*or* equivalent
- Advanced coursework or a component of an induction program focusing in Special Education

### Masters Core Courses

- EDUC 605 Education in a Diverse Society (3)  
EDUC 615 Principles of Educational Research (3)  
EDUC 616 Masters Research Thesis/Project (continuing registration required) (1)
- or*  
EDUC 618 Comprehensive Examination Preparation (1)

### Required Courses for Specialization in Educational Leadership

- EDPL 610 Foundations of Curriculum, Instruction and Assessment (3)  
EDPL 620 Instructional Leadership of the Collaborative Inclusive School (3)  
EDPL 621 Law and School Management (3)  
EDPL 622 School Finance and Principles of Applied Leadership (3)  
EDPL 623 Understanding and Influencing Organizations in Diverse Communities (3)  
EDPL 624 Human Resource Management in Education Settings (3)  
EDPL 625 Building Collaborative, Inclusive Learning Communities (3)  
EDPL 631 Professional Development/Fieldwork I (2)  
EDPL 632 Professional Development /Fieldwork II (4)

### Program Maintenance Requirements

As a condition of remaining in the program, students must maintain a grade point average of 3.0 (B) or better with no course grades lower than a C+. The progress of students in meeting this requirement and in progressing toward completion in a timely manner will be monitored at the conclusion of each term as part of the Professional Development and Field Experience Courses (EDPL 631- 632.)

## SPECIAL EDUCATION SPECIALIZATION

The Special Education Specialization prepares teachers and professionals for leadership roles in the field of special education and disabilities. Completion of this degree prepares graduates to further expand their knowledge of individuals with disabilities of diverse linguistic and cultural backgrounds. It equips practitioners with the knowledge of best practice and policies for working with students with disabilities and their families.

### CAREERS

The Master of Arts in Education with the Special Education Specialization prepares graduates for leadership positions in the field of special education and disabilities. These leaders can develop, implement, and evaluate programs and policies for individuals with disabilities; mentor special education teachers and allied professionals; conduct professional development and research; serve on policy committees; and advocate for the rights of individuals with disabilities.

### ADMISSION REQUIREMENTS

1. **Application.** Apply to both the University Admissions Office and the Education Program Credential Office.
2. **One Set of Official Transcripts.** One official set of transcripts from each of the colleges or universities attended must be mailed directly to the CSU Channel Islands Admissions Office. Cumulative grade point average of 3.0 is required to be accepted into the Master of Arts in Education Special Education Program.
3. **Two Letters of Recommendation.** Two letters of recommendation from professionals who are knowledgeable of the candidate's professional work.
4. **Interview.** Interview with the Education Program Admissions Committee.
5. **Writing Sample.** A written statement of purpose (500-600 word essay) describing why the candidate desires to obtain a Master of Education in Special Education. This essay will include reflection on personal and professional goals and the ways in which the knowledge and skills will be developed to achieve these goals.

### REQUIREMENTS FOR THE MASTER OF ARTS IN EDUCATION: SPECIALIZATION IN SPECIAL EDUCATION

#### Prerequisite

An approved teaching credential and teaching experience.

#### Masters Core Courses

- EDUC 605 Education in a Diverse Society (3)  
 EDUC 615 Principles of Educational Research (3)  
 EDUC 616 Masters Research Thesis/Project  
 (continuing registration required) (1)

or

- EDUC 618 Comprehensive Examination Preparation (1)

### Required Courses for Specialization in Special Education

- SPED 641 Advanced Perspectives in Special Education (3)  
 SPED 642 Advanced Behavior and Environmental Supports (3)  
 SPED 643 Advanced Assessment and Instructional Practices for Diverse Learners (3)  
 SPED 646 Advanced Collaborative Partnerships and Effective Communication in School Settings (3)  
 SPED 690 Advanced Topics In Special Education (3)  
 EDUC 617 Action Research (3)

### Electives

In addition choose 6 units from the following list:

- EDCI 602 Issues in Secondary Education (3)  
 EDCI 610 Research on Teaching (3)  
 SPED 655 Historical and Contemporary Portraits of Disabilities and Special Education (3)  
 EDUC/ 431 Education Policy and Politics (3)  
 POLS  
 EDUC 661 Advanced Teaching with Technology (3)  
 EDPL 610 Foundations of Curriculum Instruction and Assessment (3)  
 EDPL 620 Instructional Leadership of the Collaborative Inclusive School (3)  
 EDPL 621 Law and School Management (3)  
 EDPL 622 School Finance and Principles of Applied Leadership (3)  
 EDPL 623 Understanding and Influencing Organizations in Diverse Communities (3)  
 EDPL 624 Human Resource Management in Education Settings (3)  
 EDPL 625 Building Collaborative, Inclusive Learning Communities (3)

### Program Maintenance Requirements

Students must maintain a grade point average of 3.0 (B) or better with no course grades lower than a C+. The progress of students in meeting this requirement and in progressing toward completion in a timely manner will be monitored at the conclusion of each term.



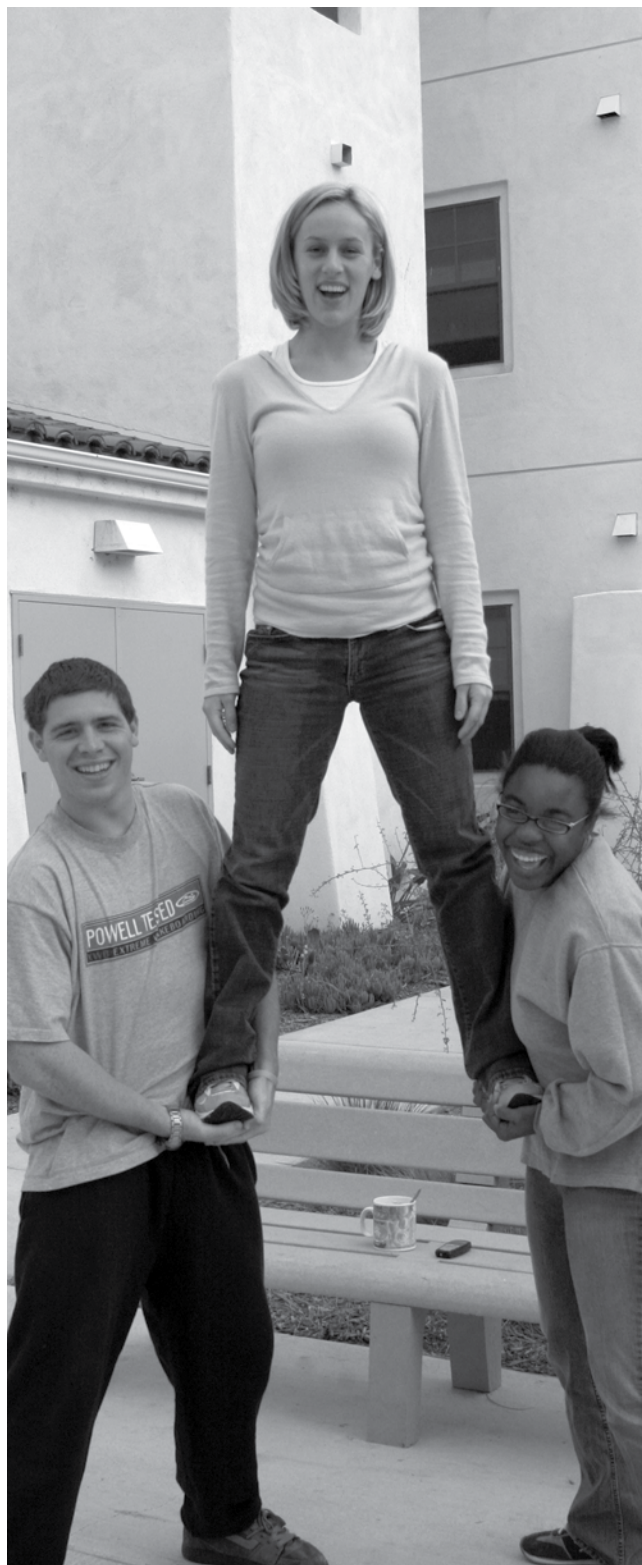
## CROSS-CULTURAL LANGUAGE AND ACADEMIC DEVELOPMENT (CLAD) CERTIFICATE

The CLAD certificate prepares future and practicing teachers to teach students from diverse language and cultural backgrounds in the K-12 public school setting. Students who complete this program will receive training (theory and methods) in working with English Learners in K-12 school settings. Students will receive authorization in the areas of language, culture, and methods, as reflected in the CLAD competencies of the State of California. Students will complete the following courses:

EDMS	522	Literacy 1: Multicultural/Multilingual (3)
EDUC	512	Equity, Diversity and Foundations of Schooling (3)
ENGL	475	Language in Social Context (3)
EDMC	550	Theory and Methods of Bilingual Education (2)
EDMC	560	Application of Mainstream and English Language Development (ELD) (2)

### Requirements for the Degree Program

Students must be enrolled in the Special Education Credential Program or have a valid teaching credential.



## ENGLISH: LITERATURE AND WRITING

### PROGRAMS OFFERED

- Bachelor of Arts in English
- Bachelor of Arts in English with an emphasis in Creative Writing
- Bachelor of Arts in English with an emphasis in Multicultural Literature
- Bachelor of Arts in English with an emphasis in English Education Preparation, Pre-Credential
- Certificate in Technical Writing
- Minor in English

The major in English at California State University Channel Islands approaches the study of Literature, Writing and Criticism in an interdisciplinary context. Students develop a sound foundation in all three areas. They develop creative, analytical, and critical skills as well as the ability to explore, organize, and articulate ideas through writing. Literature and language are significant cultural phenomena that shape and are shaped by particular contexts; therefore, this program addresses the historical and cultural significance of the English language, literature written in English, and other literatures in translation.

Course work in the English: Literature and Writing program is completed in three areas. Foundation courses provide the tools for intellectual discussion of materials. Interdisciplinary courses provide connections with different ideas, approaches and ways of knowing. The required sequence provides in-depth investigation in a specialized field of Multicultural Literature, Writing or Education. In addition, the student may choose to pursue an emphasis in Creative Writing, Multicultural Literature, English Education Preparation, or a certificate in Technical Writing.

English majors will keep a portfolio of work produced in each of their required courses and electives. The student will work closely with his or her advisor in developing the portfolio, which will be reviewed by the instructor as a prerequisite to the capstone/service learning course. At the end of the capstone, when all course requirements have been fulfilled for the major, there will be a review of the final portfolio.

### CAREERS

The B.A. in English prepares students for graduate programs in English, Linguistics, Comparative Literature, Creative Writing, Journalism, and Secondary Education. English majors, trained in logical thinking, interpretative reading, and effective writing also do very well on the LSAT exams for law schools. The major is excellent preparation for a variety of creative professions such as: editor for a publishing company, book agent, magazine editor, newspaper reporter, teacher of English abroad, freelance magazine writer, script reader, speech writer, advertising copy writer, and director of communications for businesses.

### PROGRAM LEARNING OUTCOMES

The English program is designed to:

- meet the philosophical, educational and cultural objectives of the university mission statement;
- stress interdisciplinarity, service learning and the multicultural, global perspectives which are the hallmarks of CSU Channel Islands programs;
- prepare students to think critically and analyze written and visual texts;
- prepare students to express themselves effectively in written and spoken form and to apply multiple theoretical perspectives; and
- prepare students for further study and for entry into a variety of professional paths.

### FACULTY

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### CONTACT INFORMATION

<http://english.csuci.edu/>

## **REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN ENGLISH (120 UNITS)**

### **LOWER DIVISION REQUIREMENTS (12 UNITS)**

Students seeking the Bachelor of Arts in English must have fulfilled the lower division writing requirement (at CSUCI ENGL 103 or ENGL 105). In addition, the following 12 units of literature survey courses (or the equivalent) are required in preparation for upper division studies:

- ENGL 120 American Literature I (3)
- ENGL 150 British and European Literature I (3)
- ENGL 220 American Literature II (3)
- ENGL 250 British and European Literature II (3)

### **UPPER DIVISION REQUIREMENTS (27 UNITS)**

The upper division English core is designed to provide students with a broad background in literature, solid foundations in theory and criticism, and experience in writing to learn. (English majors may not use courses in this section to fulfill General Education requirements).

- ENGL 310 Research Methods (3)
- ENGL 315 Introduction to Language Structure and Linguistics (3)
- ENGL 330 Writing in the Disciplines (3)

#### **Two of the following three courses:**

- ENGL 325 Major Non-Western Authors (3)
- ENGL 326 Major British & European Authors (3)
- ENGL 327 Major American Authors (3)

#### **One of the following two courses:**

- ENGL 332 Teaching Dramatic Literature (3)
- ENGL 410 Shakespeare's Plays (3)

- ENGL 349 Perspectives on Multicultural Literature (3)
- ENGL 420 Literary Theory (3)
- ENGL 499 Capstone Project/ Senior Seminar (3)

### **Required Sequence (6 units)**

The sequence requirement allows students to explore an area of interest in more depth. Students choose one of the following sequences. (Note that ENGL 349 is a required course and can double-count for both the core requirement and as half of the required sequence, with three units total credit given; students who elect this sequence will take three additional elective units.)

#### **SEQUENCE A**

- ENGL 349 Perspectives on Multicultural Literature (3)
- Plus one of the following:**
- ENGL 350 Native American Literature (3)
  - ENGL 351 African/African American Literature (3)
  - ENGL 352 Asian/Asian American Literature (3)
  - ENGL 353 Chicana/o Hispanic/Hispanic American Literature (3)

*or*

#### **SEQUENCE B**

- ENGL 360 Perspectives in Creative Writing (3)
- Plus one of the following:**
- ENGL 461 Fiction Writing (3)
  - ENGL 462 Poetry Writing (3)
  - ENGL 463 Writing for the Stage and Screen (3)
  - ENGL 464 Creative Non-Fiction (3)

*or*

#### **SEQUENCE C**

- ENGL 475 Language in Social Context (3)
- Plus one of the following:**
- ENGL 477 Adolescent Literature (3)
  - ENGL 478 Writing as Reflective Practice (3)

*or*

#### **SEQUENCE D**

- ENGL 482 Technical Writing (3)
- Plus one of the following:**
- ENGL 483 Technical Visual Communication (3)
  - ENGL 484 Technical Writing for the Sciences (3)

The Technical Writing sequence for English majors requires ENGL 482 and one other course in Technical Writing. However, unless undertaken as part of the sequence requirement, ENGL 482 is not a prerequisite for 483 or 484.

### **ELECTIVES: (6 UNITS)**

- ENGL 210 Themes in World Literature (3)
- ENGL 311 Bilingual Literary Studies/Estudios Literarios Bilingües (3)
- ENGL 328 Mythology (3)
- ENGL 331 Narratives of the Working Class (3)
- ENGL 332 Teaching Dramatic Literature (3)
- ENGL 333 Multicultural Drama in Performance/Production (3)
- ENGL 334 Narratives of Southern California (3)
- ENGL 335 American Ethnic Images in Novels, Film and Art (3)
- ENGL 336 Multicultural Literature and Communication (3)
- ENGL 337 Literature of the Environment (3)
- ENGL 338 Science and Conscience (3)
- ENGL 339 Psychology and Literature (3)
- ENGL 340 Business and Economics in American Literature (3)
- ENGL 350 Native American Literature (3)
- ENGL 351 African/African American Literature (3)
- ENGL 352 Asian/Asian American Literature (3)
- ENGL 353 Chicana/o Hispanic/Hispanic American Literature (3)
- ENGL 360 Perspectives in Creative Writing (3)
- ENGL 378 Contemporary Native American Authors: Telecourse (3)
- ENGL 400 Contemporary Literature (3)
- ENGL 412 Drama of Ancient Greece (3)
- ENGL 430 Tradition and Transformation: Literature, History & Cultural Change (3)
- ENGL 431 European Renaissance Literature & Art (3)
- ENGL 432 Arts of the Harlem Renaissance (3)



- ENGL 433 Gay/Lesbian/Bisexual/Transgender Studies (3)  
 ENGL 444 Original Practice in Renaissance Drama (3)  
 ENGL 456 Women's Fiction (3)  
 ENGL 461 Fiction Writing (3)  
 ENGL 462 Poetry Writing (3)  
 ENGL 463 Writing for the Stage and Screen (3)  
 ENGL 464 Creative Non-Fiction (3)  
 ENGL 474 Approaches To English Grammar (3)  
 ENGL 477 Adolescent Literature (3)  
 ENGL 478 Writing as Reflective Practice (3)  
 ENGL 482 Technical Writing (3)  
 ENGL 483 Technical Visual Communication (3)  
 ENGL 484 Technical Writing for the Sciences (3)

### REQUIRED SUPPORTING AND OTHER GE COURSES (69 UNITS)

Electives (15)

American Institutions Requirement (6)

General Education (48)

### EMPHASIS IN CREATIVE WRITING (12 UNITS)

The Creative Writing Emphasis gives the English major an opportunity to pursue his or her interests in creative writing of various forms. The culmination of the emphasis is the Creative Writing project, which the student chooses in consultation with her or his advisor. The product of that course will be a completed work of publishable quality in one of the following genres. Students selecting this emphasis must choose Sequence B above plus nine units from the following:

- ENGL 461 Fiction Writing (3)  
 ENGL 462 Poetry Writing (3)  
 ENGL 463 Writing for the Stage and Screen (3)  
 ENGL 464 Creative Non-Fiction (3)

*plus*

- ENGL 465 Creative Writing Project (3)

### EMPHASIS IN MULTICULTURAL LITERATURE (12 UNITS)

The Multicultural Literature Emphasis gives the English major an opportunity to pursue his or her interests in studying the literature of various cultures and ethnic groups. The culmination of the emphasis is the Multicultural Literature project, which the student chooses in consultation with his or her advisor. The product of that course will be a completed work which addresses the literature (broadly defined as fiction, nonfiction, poetry, drama and film) in one of the following course areas. Students selecting this emphasis must choose Sequence A above plus nine units from the following:

- ENGL 350 Native American Literature (3)  
 ENGL 351 African/African American Literature (3)  
 ENGL 352 Asian/Asian American Literature (3)  
 ENGL 353 Chicana/o Hispanic/Hispanic American Literature (3)

*plus*

- ENGL 454 Multicultural Literature Project/Seminar (3)

### EMPHASIS IN ENGLISH EDUCATION, PRECREDENTIAL (12 UNITS)

The English Education Emphasis gives the English major an opportunity to gain the coursework and experience necessary to pursue a teaching credential in English at the secondary level. This program is designed to substitute for the state subject examination and includes a portfolio requirement in lieu of the examination. Students selecting this emphasis must choose Sequence C above plus twelve units from the following:

- ENGL 210 Themes in World Literature (3)  
 ENGL 474 Approaches to English Grammar (3)  
 ENGL 477 Adolescent Literature (3)  
 ENGL 478 Writing as Reflective Practice (3)  
 EDUC 330 Introduction to Secondary Schooling (3)

### Plus the Following Required Supporting Course COMM/345 Media Literacy And Youth Culture (3) EDUC

Annual consultation with an advisor in English is required for students in this emphasis.

### REQUIREMENTS FOR THE CERTIFICATE IN TECHNICAL WRITING (18 UNITS)

(Open to All Students)

The Certificate in Technical Writing provides an opportunity for students from various disciplines to pursue interests in Technical Writing, and the certificate will prove valuable in a variety of career choices. The culmination of the certificate is the Project/Seminar course, which may be an internship or a project the student chooses in consultation with his or her advisor. Courses may not fulfill the "required sequence" in the Literature and Writing major as well as count toward the certificate. The certificate requires each of the following:

- ENGL 310 Research Methods (3)  
 ENGL 330 Writing in the Disciplines (3)  
 ENGL 482 Technical Writing (3)  
 ENGL 483 Technical Visual Communication (3)  
 ENGL 484 Technical Writing for the Sciences (3)  
 ENGL 485 Technical Writing Project/Seminar (3)



## REQUIREMENTS FOR THE MINOR IN ENGLISH (24 UNITS)

The English minor provides non-majors with the opportunity to explore literature and become more involved with the writing process. The English: Literature and Writing minor is an excellent addition to the baccalaureate degree for all majors. A minor in English requires a grade of C or better in each course.

### LOWER DIVISION REQUIREMENTS (12 UNITS)

ENGL 120	American Literature I (3)
ENGL 150	British/European Literature I (3)
ENGL 220	American Literature II (3)
ENGL 250	British/European Literature II (3)

### UPPER DIVISION REQUIREMENTS (12 UNITS)

ENGL 310	Research Methods (3)
ENGL 330	Writing in the Disciplines (3)

*One of the following two courses:*

ENGL 332	Teaching Dramatic Literature (3)
ENGL 410	Shakespeare's Plays (3)

*Plus one of the following:*

ENGL 311	Bilingual Literary Studies/Estudios Literarios Bilingües (3)
ENGL 328	Mythology (3)
ENGL 331	Narratives of the Working Class (3)
ENGL 332	Teaching Dramatic Literature (3)
ENGL 333	Multicultural Drama in Performance and Production (3)
ENGL 334	Narratives of Southern California (3)
ENGL 335	American Ethnic Images in Novels, Film and Art (3)

ENGL 336	Multicultural Literature and Communication (3)
ENGL 337	Literature of the Environment (3)
ENGL 338	Science and Conscience (3)
ENGL 339	Psychology and Literature (3)
ENGL 340	Business and Economics in American Literature (3)
ENGL 350	Native American Literature (3)
ENGL 351	African/African American Literature (3)
ENGL 352	Asian/Asian American Literature (3)
ENGL 353	Chicana/o Hispanic/Hispanic American Literature (3)
ENGL 360	Perspectives in Creative Writing (3)
ENGL 378	Contemporary Native American Authors: Telecourse (3)
ENGL 400	Contemporary Literature (3)
ENGL 412	Drama of Ancient Greece (3)
ENGL 420	Literary Theory (3)
ENGL 430	Tradition and Transformation: Literature, History & Cultural Change (3)
ENGL 431	European Renaissance Literature & Art (3)
ENGL 432	Arts of the Harlem Renaissance (3)
ENGL 433	Gay/Lesbian/Bisexual/Transgender Studies (3)
ENGL 444	Original Practice in Renaissance Drama (3)
ENGL 456	Women's Fiction (3)
ENGL 461	Fiction Writing (3)
ENGL 462	Poetry Writing (3)
ENGL 463	Writing for the Stage and Screen (3)
ENGL 464	Creative Non-Fiction (3)
ENGL 474	Approaches To English Grammar (3)
ENGL 477	Adolescent Literature (3)
ENGL 478	Writing as Reflective Practice (3)
ENGL 482	Technical Writing (3)
ENGL 483	Technical Visual Communication (3)
ENGL 484	Technical Writing for the Sciences (3)



## ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT

### PROGRAMS OFFERED

- Bachelor of Science in Environmental Science and Resource Management  
Emphasis in Environmental Science  
Emphasis in Resource Management
- Minor in Environmental Science and Resource Management

Today's environmental problems call for individuals who are educated in more than one discipline, highly trained in technical skills, and aware of the political, economic, and social dimensions of environmental decisions. The Bachelor of Science in Environmental Science and Resource Management provides solid training in basic physical, biological, and social sciences, and application of management science to reduce adverse impacts of human activity on the environment and to maximize the benefits that accrue from environmental resources.

In the narrowest sense, environmental science is the study of the impact of human systems on physical and biological systems, and the dependence on natural resources by human systems. In a broader sense, environmental science is the study of the interaction and co-evolution of human, physical, and biological systems. Natural science is the study of physical and biological systems. Social science is the study of human systems - economic systems, political systems, human perceptions, and human interactions. Environmental science requires integral knowledge of both natural and social science. Resource management is concerned with the most effective means of avoiding damage to environmental assets and extracting beneficial uses of environmental resources, within the context of social institutions. Effective resource management considers benefits and costs, uncertainties and risks, limits of knowledge, institutional constraints, and social and political forces.

The B.S. program has two emphases: environmental science and resource management. This program prepares graduates specializing in environmental science who understand basic principles of resource management, and graduates specializing in resource management who understand basic principles of environmental science. Most required courses are those offered in related disciplines. The curriculum fosters cross-disciplinary communication in the several required courses common to both degree programs and particularly in the Environmental Science and Resource Management courses.

### CAREERS

This curriculum prepares students for professional careers in Environmental Science and Resource Management and for subsequent graduate study. For graduates completing the program of study required for the BS degree in Environmental Science and Resource Management, there are ample career opportunities working on environmental problems in industry, government, and non-profit organizations. The degree will also prepare students for graduate programs in either Environmental Science or Resource Management. For example, students might pursue a Ph.D. in Environmental Science at UCLA or in Environmental Science and Policy at UC Santa Barbara.

### PROGRAM LEARNING OUTCOMES

Students graduating from the ESRM program will be able to:

- identify the scientific, social scientific and humanistic aspects of environmental issues;
- identify, locate, evaluate, synthesize and present current research and information on environmental issues;
- define environmental problems from the perspectives of both environmental science and resource management;
- identify possible causes and propose solutions to environmental problems from the perspectives of both environmental science and resource management;
- evaluate proposed solutions to environmental problems from the perspectives of both environmental science and resource management;
- use the methodologies of the natural and social sciences to formulate testable hypotheses concerning environmental problems and issues;
- collect, organize, analyze, interpret and present quantitative and qualitative data; and
- make use of current, technological tools in the collection, organization, analysis and interpretation of data.

### FACULTY

Donald Rodriguez, Ph.D.

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Environmental Science and Resource Management  
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Sean Anderson, Ph.D.

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## COOPERATING FACULTY

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## CONTACT INFORMATION

<http://esrm.csuci.edu/>

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT (120 UNITS)

### LOWER DIVISION REQUIREMENTS (37-39 UNITS)

BIOL	200	Principles of Organismal and Population Biology (4)
BIOL	201	Principles of Cell & Molecular Biology (4)
CHEM	121	General Chemistry I and Laboratory (4)
CHEM	122	General Chemistry II and Laboratory (4)
ECON	110	Principles of Microeconomics (3)
ECON	111	Principles of Macroeconomics (3)
ESRM	100	Introduction to Environmental Science and Resource Management (3)
ESRM	200	Principles of Resource Management, Conservation, and Stewardship (3)

*One of the following:*

MATH	140	Calculus for Business Applications (3)
MATH	150	Calculus I (4)

*One of the following:*

GEOL	121	Physical Geology (4)
GEOL	122	Historical Geology (3)

*One of the following:*

MATH	202	Biostatistics (3)
MATH	329	Statistics for Business and Economics (3)
BIOL	203	Quantitative Methods for Biology (3)

### UPPER DIVISION REQUIREMENTS (27 UNITS)

BIOL	433	Ecology and the Environment (4)
ECON	362	Environmental Economics (3)
ENGL	337	Literature of the Environment (3)
ESRM/	313	Conservation Biology (4)
BIOL		
ESRM	328	Introduction to Geographical Information Systems (3)
ESRM	329	Environmental Law and Policy (3)
ESRM/	342	Environmental History (3)
HIST		
ESRM	491	Capstone Preparation (1)
ESRM	499	Capstone (3)

**All students must select an emphasis in Environmental Science or Resource Management and the associated coursework.**

### REQUIREMENTS FOR AN EMPHASIS IN ENVIRONMENTAL SCIENCE (16 UNITS)

ESRM	352	Theory and Practice of Ecological Restoration (3)
CHEM	250	Quantitative Analysis (2)
CHEM	251	Quantitative Analysis Laboratory (2)
<b>A total of nine units from the following courses:</b>		
BIOL	301	Microbiology (4)
BIOL	310	Vertebrate Biology and Ecology (4)
BIOL	312	Marine Biology (4)



BIOL	316	Invertebrate Zoology (4)
BIOL	333	Emerging Public Health Issues (2)
BIOL	334	Natural History of Ventura County (3)
BIOL	402	Toxicology (3)
BIOL	432	Principles of Epidemiology and Environmental Health (3)
BIOL	450	Ichthyology: The Biology of Fishes (4)
BIOL	451	Ornithology (3)
CHEM	311	Organic Chemistry I (3)
CHEM	312	Organic Chemistry I Laboratory (1)
CHEM	314	Organic Chemistry II (3)
CHEM	315	Organic Chemistry II Laboratory (1)
CHEM	318	Biological Chemistry (3)
ENGL	482	Technical Writing (3)
ENGL	483	Technical and Visual Communication (3)
ESRM	350	Ecological Restoration Design and Construction (4)
ESRM	351	Field Methods: Coastal Monitoring and Assessment (4)
ESRM/ COMM	443	Environmental Communication (3)
ESRM	481	Topics in Environmental Pollution (3)
ESRM	490	Special Topics (3)
ESRM	492	Service Learning/Internship (3)
ESRM	494	Independent Research (1-3)
MATH	430	Research Design and Data Analysis (3)
PHYS	201	General Physics II (4)
PHYS	344	Energy and Society (3)

### REQUIREMENTS FOR AN EMPHASIS IN RESOURCE MANAGEMENT (16 UNITS)

ESRM	462	Coastal and Marine Resource Management (4)
ESRM	463	Water Resources Management (4)
ESRM	464	Land Use Planning and Open Space Management (4)

#### *A total of four units from the following courses:*

BIOL	450	Ichthyology: The Biology of Fishes (4)
BIOL	451	Ornithology (3)
ECON	464	Natural Resource Economics (3)
ECON	480	Topics in Environmental and Natural Resource Economics (3)
ECON	488	Applied Managerial Econometrics (4)
ENGL	482	Technical Writing (3)
ENGL	483	Technical and Visual Communication (3)
ESRM/ ANTH	332	Human Ecology (3)
ESRM	352	Theory and Practice of Ecological Restoration (3)
ESRM	410	Environmental Impact Assessment (3)
ESRM	482	Issues in Environmental Planning and Resource Management (3)
ESRM	483	Issues in Global Resource Management (3)
ESRM	490	Special Topics (3)
ESRM	492	Service Learning/Internship (3)
ESRM	494	Independent Research (1-3)
MATH	430	Research Design and Data Analysis (3)
MGT	307	Management of Organizations (3)
MGT	428	Contract Management (3)

### REQUIRED SUPPORTING AND OTHER GE COURSES (38-40 UNITS)

University Electives (14-16)  
American Institutions Requirement (6 units)  
Other GE Courses (18)

### REQUIREMENTS FOR THE MINOR IN ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT (20 UNITS)

The Environmental Science and Resource Management minor provides non-majors with the opportunity to explore environmental issues and examine human impacts on natural systems. It provides students with an understanding of how their personal choices affect the environment around them. In addition, it equips students for further study in environmental science, law, policy, or management.

#### LOWER DIVISION REQUIREMENTS (9 UNITS)

ESRM	100	Introduction to Environmental Science and Resource Management (3)
ESRM	200	Principles of Resource Management, Conservation, and Stewardship (3)

#### *One of the following courses:*

MATH	201	Elementary Statistics (3)*
MATH	202	Biostatistics (3)*
BIOL	203	Quantitative Methods for Biology (3)*

\*MATH 329 can be substituted for MATH 201, 202 or BIOL 203, but may not be double-counted as an upper division course

#### UPPER DIVISION REQUIREMENTS (11 UNITS)

ESRM/ BIOL	313	Conservation Biology (4)
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#### *One of the following courses:*

ESRM	462	Coastal and Marine Resource Management (4)
ESRM	463	Water Resources Management (4)
ESRM	464	Land Use Planning and Open Space Management (4)

#### *Three units from any of the following courses:*

BIOL	334	Natural History of Ventura County (3)
CHEM	250	Quantitative Analysis (2)
CHEM	251	Quantitative Analysis Lab (2)
CHEM	311	Organic Chemistry I (3)
CHEM	312	Organic Chemistry I Laboratory (1)
ECON	362	Introduction to Environmental Economics (3)
ECON	488	Applied Managerial Econometrics (4)
ENGL	337	Literature of the Environment (3)
ESRM/ HIST	342	Environmental History (3)
ESRM/ COMM	443	Environmental Communication (3)
Any other 300-400 level ESRM course (3-4)		
POLS	340	Politics and the Environment (3)
POLS	345	Science and Public Policy (3)
SOC	440	Population Studies (3)



## HISTORY

### PROGRAMS OFFERED

- Bachelor of Arts in History
- Minor in History

As a discipline that documents and interprets continuity and change through time, California State University Channel Islands' History Program prepares students to search into the human experience, as well as to communicate and analyze historical interpretations and ideas, verbally and in the written form. An emphasis of the program is to examine events from local and global perspectives. In this regard, a defining aspect of the History Program consists of a cutting-edge series of courses that emphasize the United States' relationship with the Pacific Rim, encompassing the Americas, the Pacific Islands, and Asia.

In support of the University's commitment to an interdisciplinary education, the History Program affords students the opportunity to integrate into their plan of study cross-listed history courses as well as subjects outside the discipline to be utilized as part of their electives. Furthermore, the History Program promotes community based applied research by placing student interns within public, private, and non-profit institutions as part of its degree requirement.

### CAREERS

The History program trains students in the art of inquiry and effective communication. Students with a History degree will be prepared to continue their graduate and post-baccalaureate education. Many history students also find careers in law, education, journalism, or foreign service.

### PROGRAM LEARNING OUTCOMES

Students graduating from the History program will possess:

- good understanding and knowledge of the history of North America;
- good understanding and knowledge of global history in other regions of the world;
- good knowledge and problem-solving skills in analyzing contemporary and historical events;
- good communication skills in oral and written forms; and
- good skills in historical research, analysis, and presentations.

### FACULTY

Nian-Sheng Huang, Ph.D.  
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### CONTACT INFORMATION

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### REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN HISTORY (120 UNITS)

(Except for the capstone category, all courses listed below are 3 units)

#### LOWER DIVISION REQUIRED COURSES (15 UNITS)

##### 6 units of World Civilizations

HIST 211 World Civilizations: Origins to 1500\*  
HIST 212 World Civilizations: Since 1500\*

##### 6 units of American History

HIST 270 The United States to 1877†  
HIST 271 The United States Since 1877†  
HIST 275 The United States to 1900 (for LS majors)†

also

HIST 272 Constitutional History of the US†

##### 3 units in Methodology

HIST 280 The Historian's Craft\*

\* Courses fulfilling GE requirement

† Courses fulfilling the Title V requirement

## UPPER DIVISION REQUIRED COURSES (31-33 UNITS)

### 9-12 units in History of North America

Students should select at least three courses from the following list:

HIST	333	History of Southern California Chicana/o Art*
HIST	334	Narratives of Southern California*
HIST	335	American Ethnic Images in Novels and Film*
HIST	349	History of Business and Economics in North America*
HIST	350	Chicano History and Culture
HIST	369	California History and Culture
HIST	370	United States Colonial History
HIST	371	The Founding of the United States
HIST	372	United States Industrialization and Progressivism
HIST	373	American Labor History
HIST	374	United States since 1945
HIST	402	Southern California Chicano/a History and Culture*
HIST	403	The American Intellectual Tradition
HIST	420	History of Mexico
HIST	421	Revolutionary Mexico, 1876-1930
HIST	470	People and Everyday Life in Early America

### 9-12 units in World History

Students should select at least three courses from the following list:

HIST	310	History of the Mediterranean
HIST	319	European History, 1871-1945
HIST	320	European History 1945 to the Present
HIST	340	History & Psychology of Nazi Germany*
HIST	365	Themes in World History
HIST	366	Oceans of World History
HIST	367	Environmental History
HIST	380	Pacific Islands History
HIST	391	Traditional China
HIST	392	Modern China
HIST	393	Contemporary China
HIST	394	Traditional Japan
HIST	395	Modern Japan
HIST	396	East Asia: Then and Now
HIST	410	Global Perspectives on the History of Science
HIST	436	Psychology and History of Asian Warrior Cultures*
HIST	442	The African Diaspora*

### 6 units in Thematic History

Students should select two courses from the following list:

HIST	365	Themes in World History*
HIST	366	Oceans of World History
HIST	367	Environmental History
HIST	410	Global Perspectives on the History of Science
HIST	412	Law and Society*
HIST	413	World Religions and Classical Philosophy*
HIST	414	Women in History
HIST	415	Society and Radicalism

**Special Topics-Can be used to fulfill major requirements, see Major advisor.**

HIST	490	Special Topics
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### 3 units in Historiography

HIST	491	Historiography
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### 1-3 units in Capstone or Internship or Service Learning

HIST	492	Internship/Service Learning (1-3)
HIST	494	Independent Research (1-3)
HIST	497	Directed Studies (1-3)
HIST	499	Capstone in History (1-3)

46-48 units required for the major

24-26 units of free electives in any discipline

48 units of General Education

120 Total Units for Graduation

### About Double-Counting for History Majors

1. Courses double counted from the requirements by both the History Program and GE would increase the standard units (24-26) for free electives.
2. According to the GE requirements, students should take nine units from those interdisciplinary courses numbered 330-349 and 430-449, and six of the nine units can be double counted. History majors are encouraged, but not required, to select from the following interdisciplinary courses offered by the History Program:

HIST	333	History of Southern California Chicana/o Art
HIST	334	Narratives of Southern California
HIST	335	American Ethnic Images in Novels and Film
HIST	340	History and Psychology of Nazi Germany
HIST	349	History of Business and Economics in North America
HIST	436	Psychology and History of Asian Warrior Cultures
HIST	442	The African Diaspora

## REQUIREMENTS FOR THE MINOR IN HISTORY (18 UNITS)

Affords non-majors the opportunity to investigate the historical complexities of societies and movements and their legacies in the present. Therefore the minor serves as a primer to the scholarly appreciation of the past.

### LOWER DIVISION REQUIREMENTS (9 UNITS)

Students must select three lower division History courses. They must select at least one course from each area listed below:

#### World History

HIST 211 World Civilizations: Origins to 1500 (3)

HIST 212 World Civilizations: Since 1500 (3)

*or*

articulated transfer courses of African, Asian, Latin American or Western Civilization based on history advisor's approval may be substituted.

#### American History

HIST 270 The United States to 1877 (3)

HIST 271 The United States since 1877 (3)

HIST 272 Constitutional History of the U.S. (3)

#### Methodology

HIST 280 The Historian's Craft (3)

### UPPER DIVISION REQUIREMENTS (9 UNITS)

Students must select any three courses from the program's upper-division offerings.





## LIBERAL STUDIES

### PROGRAMS OFFERED

- Bachelor of Arts in Liberal Studies with Options in:  
Teaching and Learning  
Concentrated Studies

### TEACHING AND LEARNING OPTION

This option is for students who plan to pursue a career as an elementary school teacher or an elementary-level special education teacher. The Teaching and Learning Option provides the required multiple-subject content preparation for students seeking the Multiple Subject Teaching Credential for teaching kindergarten through 8th grade or a Special Education credential. This option includes the subject-matter content specified by the California Commission on Teacher Credentialing (CCTC).

### CONCENTRATED STUDIES OPTION

Students work with a faculty advisor to develop a Program of Study that focuses on a discipline or interdisciplinary area. In addition to students interested in non-traditional or interdisciplinary degree programs, this option will be of interest to students who have taken substantial course work from a four-year institution in a discipline not currently reflected in the majors at CSUCI.

### CAREERS

The Teaching and Learning option provides the content necessary for teaching grades K-8 and for admission into teacher education programs, including the Multiple-Subject and Special Education Teaching Credential Programs. Students who are interested in teaching grades 6-12 should consider obtaining a bachelor's degree in a traditional major (e.g. History, English, Math, or Biology) and then apply to be admitted into Single-Subject, Teaching-Credential Programs in History, English, Math, Science or Special Education. The Concentrated Studies Option provides a broadly-based background for entry into professional and/or graduate programs. This option is for students who need flexibility in order to complete their education, or need to prepare for specific careers not represented by California State University Channel Islands' current majors.

### PROGRAM LEARNING OUTCOMES

Students graduating from the Liberal Studies Program will be able to:

- effectively evaluate oral or written communication for accuracy of content, logic of argument, and clarity of reasoning;
- demonstrate proficiency in computer literacy, information literacy, and technological literacy;
- analyze socio-cultural issues including race, class, ethnicity, gender, and language and discuss societal issues that may arise;
- demonstrate content area knowledge related to their program of study and intended career goals; and

- demonstrate content area knowledge related to the CCTC content standards for the Multiple Subject Teaching Credential for graduates from the Teaching and Learning Option.

### FACULTY ADVISORS

The following faculty members have expressed a willingness to serve as advisors for a student's Program of Study in the Concentrated Studies Option in the indicated area:

- William H. Adams, Ph.D.  
(Anthropology, Social Science, Multiculturalism,  
Oral History, African American History)  
805-437-8866, [bill.adams@csuci.edu](mailto:bill.adams@csuci.edu)
- Mary Adler, Ph.D., (Single-Subject English)  
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- Simone Aloisio, Ph.D., (Single-Subject Chemistry,  
Environmental Chemistry, Forensic Science)  
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- Harley Baker, Ed.D., (Human Development)  
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- Julia Balen, Ph.D.,  
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- Terry Ballman, Ph.D., (Humanities)  
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- Frank Barajas, Ph.D., (Social Science)  
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- Robert E. Bleicher, Ph.D., (Education)  
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- Rainer Buschmann, Ph.D., (Social Science)  
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- Renny Christopher, Ph.D., (Gender Studies)  
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## CREDENTIAL INFORMATION

The Liberal Studies Teaching and Learning Option has been designed to meet the State-approved Multiple Subject Matter Preparation Program. Completion of the Liberal Studies Teaching and Learning Option, a passing score on both the California Basic Educational Skills Test (CBEST) and the California Subject Examinations for Teachers (CSET), and completion of prerequisite courses are required for entrance into CSUCI's Multiple Subject Credential Program. For more information about credential programs see the Education section and contact the CSUCI Credential Office.

## REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN LIBERAL STUDIES (120 UNITS)

### REQUIREMENTS FOR THE TEACHING AND LEARNING OPTION (85 - 88 UNITS)

These units include General Education, Liberal Studies Core, Emphasis, and Capstone courses. Requirements for the Emphases are available from the Advising Center. Three of the six units of the American Institutions Requirement and 36- 39 units of General Education are included in the Core for the Teaching and Learning Option.

### Required Core Courses (76-79 units)

1. **Reading, Language, and Literature (15-18 units)**
  - COMM 210 Interpersonal Communication (3)
  - ENGL 105 Composition and Rhetoric I (3)
  - or*
  - ENGL 102 Stretch Composition I (3)
  - and*
  - ENGL 103 Stretch Composition II (3)
  - ENGL 212 Children's Literature (3)
  - ENGL 315 Introduction to Language Structure and Linguistics (3)
  - ENGL 475 Language in Social Context (3)

### 2. History and Social Science (21 units)

- HIST 211 World Civilizations: Origins to 1500 (3)
- HIST 212 World Civilizations: Since 1500 (3)
- or*
- ANTH 310 Civilizations of an Ancient Landscape: World Archeology (3)
- or*
- HIST 365 Themes in World History (3)
- EDUC 101 Introduction to Education (3)
- EDUC 320 Education in Modern Society (3)
- HIST 275 The United States to 1900 (3)
- HIST 369 California History and Culture (3)
- ANTH 102 Cultural Anthropology (3)

### 3. Mathematics (6 units)

- MATH 208 Modern Math for Elementary Teaching I: Numbers and Problem Solving (3)
- MATH 308 Modern Math for Elementary School Teaching II: Geometry, Probability & Statistics (3)

### 4. Science (15 units)

- BIOL 170 Foundations of Life Science (4)
- PHSC 170 Foundations in Physical Science (4)
- GEOL 300 Foundations of Earth Science (4)
- COMP 101 Computer Literacy (3)

### 5. Visual and Performing Arts (6 units)

- ART 102 Multicultural Children's Art (3)
- PAMU 243 Teaching Music to Children (3)

### 6. Physical Education and Health (4 units)

- PHED 302 Motor Learning, Fitness and Development in Children (2)
- HLTH 322 Health Issues in Education (2)

### 7. Human Development, Learning and Cognition (6 units)

- PSY 213 Developmental Psychology (3)
- SPED 345 Individuals with Disabilities in Society (3)

### 8. Capstone (3 units)

- LS 499 Capstone Project (3)

The capstone project (LS 499) must be passed with a grade of "B" or better for the Teaching and Learning Option.

## REQUIRED EMPHASIS (9 UNITS)

Nine additional units must be taken from one of the following Emphases:

- Reading, Language and Literature
- History and Social Science
- Mathematics
- Science
- Visual and Performing Arts
- Physical Education and Health
- Human Development and Psychology
- Bilingual Studies: Spanish/ English

## **REQUIRED SUPPORTING, GE AND ELECTIVE COURSES (32-35 UNITS)**

COMM/ 345 Media Literacy and Youth Culture (3)  
EDUC

Foreign Language (3 units)

(May double count for Reading, Language and Literature Emphasis; Spanish language may double count for Bilingual Studies)

American Institutions Requirement (3 units)

Electives (23-26 units)

(Must satisfy General Education categories A3 and C2 if not covered in emphasis)

### **Additional Courses (0-10)**

Students are strongly encouraged to take EDUC 510, EDUC 512, EDUC 520, and EDUC 521 as electives since these courses are prerequisites for admission to the CSUCI Multiple-Subject Teaching Credential Program.

The Liberal Studies Program requires that all major courses be completed with a grade of "C" or better in the Teaching and Learning Option.

**Special Note:** Students who plan to enter a teaching credential program in California will be required to have a cumulative GPA of 2.67 OR a 2.75 GPA in the last 60 units of their baccalaureate degree to be eligible for admission to the post baccalaureate credential program.

## **REQUIREMENTS FOR THE CONCENTRATED STUDIES OPTION (57 UNITS)**

This option consists of a 9 unit Core, a 45 unit Program of Study, and a 3 unit Capstone. In order for a student to have their Program of Study approved, it must be developed with a tenure-track faculty advisor. General Education may not be double-counted with the requirements for this Option.

### **Required Core Courses (9 Units)**

Choose one course from each of the following 3 core areas. (Note: the courses listed under Multicultural Studies meet the Multicultural Graduation Requirement for students who are General Education certified. For a complete list of eligible Multicultural Studies courses, see General Education Requirements in the catalog.)

#### **1. Advanced Writing Course (3 units)**

ENGL 330 Writing in the Disciplines (3)

*or*

ENGL 478 Writing and Metacognition (3)

#### **2. Multicultural Studies (3 units)**

Any three unit course approved for General Education, Area C3B. (See General Education requirements in the university catalog)

#### **3. Computer Literacy (3 units)**

COMP 101 Computer Literacy (3)

## **PROGRAM OF STUDY (45 UNITS)**

The Program of Study must be arranged with a faculty advisor. Students are strongly encouraged to pursue a minor as part of the Program of Study. A minimum of 24 units must be upper-division. Community college courses may be used in the Program of Study provided they are approved by the faculty advisor and are not used to meet General Education or the American Institutions Requirements. Students must select a faculty advisor within the first 60 days after they begin taking coursework at CSUCI and submit their initial Program of Study to the Advising Center. A list of faculty who are willing to serve as advisors to the Concentrated Studies Option students is provided at the beginning of this catalog description.

### **Capstone (3 units)**

All students must enroll in LS 499 during the final year prior to graduation.

LS 499 Capstone Project (3)

The Capstone project (LS 499) must be passed with a grade of "B" or better.

## **REQUIRED SUPPORTING AND OTHER GE COURSES (63 UNITS)**

Other courses may be needed to meet Foreign Language Graduation Requirements (3 units), American Institutions Requirements (6 units), and General Education requirements and electives (54 units).

The Liberal Studies Program requires that all major courses be completed with a grade of "C" or better in the Concentrated Studies Option.



## MATHEMATICS

### PROGRAMS OFFERED

- Bachelor of Science in Mathematics
- Minor in Foundational Mathematics
- Minor in Mathematics
- Master of Science in Mathematics
- Approved CCTC Mathematics Subject Matter Waiver Program

Mathematics can be pursued as a scholarly discipline of an especially elegant and creative art form or it can be treated as a valuable tool in an applied discipline. Our program addresses both needs. Students will be given a strong background in mathematics and statistics as well as a substantial amount of interdisciplinary applications in Physics, Biostatistics, Business, Computer and Information Sciences, Computer Imaging or Artificial Intelligence.

### CAREERS

The mathematics major will prepare students for teaching careers, studies in graduate programs (in pure mathematics, applied mathematics, mathematics education, or the mathematical sciences) or for employment in high-tech and bio-tech industries, where mathematics-trained professionals with interdisciplinary expertise (sciences and business) are increasingly sought after.

### PROGRAM LEARNING OUTCOMES

Students graduating from the Mathematics program will be able to:

- demonstrate critical thinking, problem solving skills and ability to use advanced mathematical methods by identifying, evaluating, and classifying, analyzing, synthesizing, data and abstract ideas in various contexts and situations;
- demonstrate the knowledge of current mathematical applications, computing practices and broad technology use in industry, science and education;
- demonstrate ability to use modern software, abstract thinking, and mathematical practices connected to scientific and industrial problems, and demonstrate these skills that are currently used by technologies in society and education;
- perform skills that enable them to evaluate, propose and convey novel solutions to scientific and business problems, etc.;
- demonstrate cooperation skills by working effectively with others in interdisciplinary group-settings - both inside and outside the classroom; and
- demonstrate a sense of exploration that enables students to pursue lifelong learning and currency in their careers in mathematics, statistics, education, high-tech and bi-tech industries.

### FACULTY

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### CONTACT INFORMATION

<http://math.csuci.edu>

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN MATHEMATICS (120 UNITS)

### LOWER DIVISION REQUIREMENTS (34-35 UNITS)

MATH 150 Calculus I (4)  
 MATH 151 Calculus II (4)  
 MATH 230 Logic and Mathematical Reasoning (3)  
 MATH 250 Calculus III (3)  
 MATH 240 Linear Algebra (3)  
 COMP 105 Computer Programming Introduction (4)  
**or**  
 COMP 150 Object Oriented Programming (4)  
 Additional Computer Science course,  
 102 or above (2-4)  
 PHYS 200 General Physics I (4)  
 either PHYS 201 and one additional science course  
 or 2 semester science sequence in sciences (7-8)

### UPPER DIVISION REQUIREMENTS (20 UNITS)

MATH 300 Discrete Mathematics (3)  
 MATH 350 Differential Equations and Dynamical Systems (3)  
 MATH 331 History of Mathematics (3)  
 MATH 352 Probability and Statistics (3)  
 MATH 351 Real Analysis (3)  
 MATH 451 Complex Analysis (3)  
 MATH 499 Senior Colloquium (1) (twice)

### ELECTIVES IN MAJOR (9-13 UNITS)

#### Note:

1. Courses used for the emphases cannot be counted as elective.
2. Students planning on teaching math have to choose MATH 492 for field experience requirement. Other courses recommended for teaching careers are marked with T.

MATH 318 Mathematics for Secondary School Teachers (3 - T)  
 MATH 330 Mathematics and Fine Arts (3 - T)  
 MATH 354 Analysis of Algorithms (3)  
 MATH 393 Abstract Algebra (3 -T)  
 MATH 430 Research Design and Data Analysis (3)  
 MATH 429 Operations Research (3)  
 MATH 450 Partial Differential Equations and Mathematical Physics (3)  
 MATH 448 Scientific Computing (3)  
 MATH 480 Differential & Riemannian Geometry (3)  
 MATH 482 Number Theory and Cryptography (3 - T)  
 MATH 484 Algebraic Geometry and Coding Theory (3)  
 MATH/ 345 Digital Image Processing (3)  
 PHYS  
 MATH/ 445 Image Analysis and Pattern Recognition (3)  
 PHYS  
 MATH/ 452 Computational Bioinformatics (3)  
 COMP  
 MATH 490 Topics in Mathematics (3)  
 MATH 492 Internship (3 - T - required)

MATH 494 Independent Study (3)  
 MATH 497 Directed Study (3)  
 MATH 499 Senior Colloquium (1)

### REQUIRED SUPPORTING AND OTHER GE COURSES

General Education and American Institutions Requirement (34 units)  
 Elective Courses (16 units)

### Select one interdisciplinary G.E. (3 units)

#### Recommended:

COMP 447 Societal Issues in Computing (3)  
 COMP 449 Human Computer Interactions (3)  
 PHYS 434 Biomedical Imaging (3)  
 Select either PHYS 201 and one additional science course or 2 semester science sequence in sciences (7-8, G.E. B1 and B2)

### EMPHASIS (6-10 UNITS)

By the sophomore year, in order to plan their electives, students should decide on one of the following emphases and take all courses listed in the section.

#### Biomathematics (10 units)

*Students selecting this emphasis should take BIOL 201.*

MATH 202 Biostatistics (3)  
 MATH 430 Research design and Data Analysis (3)  
 COMP 452 Computational Bioinformatics (4)

#### Computer Science (9 units)

*Students selecting this emphasis should take COMP 150 and COMP 151 for the computer science requirements*

MATH 354 Analysis of Algorithms (3)  
 MATH 448 Scientific Computing (3)  
 COMP 350 Software Engineering (3)

#### Physics (6 units)

*Students selecting this emphasis should take PHYS 200 and 201(8) as the science sequence.*

MATH 450 Partial Differential Equations and Mathematical Physics (3)  
 Upper division Physics course (3)

#### Applied Physics (6 units)

*Students selecting this emphasis should take PHYS 200 and 201(8) as the science sequence.*

COMP/ 345 Digital Image Processing (3)  
 PHYS  
 COMP/ 445 Image Analysis and Pattern Recognition (3)  
 PHYS

#### Actuarial Sciences/Economics (9 Units)

MATH 429 Operations Research (3)  
 ECON 300 Fundamentals of Economics (3)  
 ECON 486 Introduction to Econometrics (3)

#### Business Management (9 Units)

MATH 329 Business Statistics (3)  
 MATH 429 Operations Research (3)  
 Economics or Upper Division Management Course (3)



### COGNITIVE SCIENCE (9 Units)

MATH 430 Research Design and Data Analysis (3)  
 PSY 210 Learning, Cognition and Development (3)  
 Upper Division Cognitive Psychology Course (3)

### Education (9 Units)

MATH 318 Mathematics for Secondary School Teachers (3)  
 MATH 393 Abstract Algebra (3)  
 EDUC 512 Equity, Diversity and Foundation of Schooling (3)

### Applied Mathematics (9 Units)

MATH 429 Operations Research (3)  
 MATH 448 Scientific Computing (3)  
 MATH 450 Partial Differential Equations and Mathematical Physics (3)

### Digital Design (9 Units)

MATH 393 Abstract Algebra (3)  
 ART 108 Visual Technologies (3)  
 ART 312 Digital Media Art: Time-Based Imaging and Compositing (3)

or

ART 314 Digital Media Art: Digital Photography (3)

*Choice of other emphases or individualized emphasis is possible upon approval of the mathematics advisor.*

### PROPOSED COURSE OF STUDY

#### Freshman Year (30-32 Units)

MATH 150 Calculus I (4, G.E. B3)  
 MATH 151 Calculus II (4)  
 MATH 230 Logic and Mathematical Reasoning (3, G.E. A3)  
 COMP 105 Computer Programming Introduction (3-4, G.E. B4)

or

COMP 150 Object Oriented Programming (4, G.E. B4)

ENG 102 Stretch Composition I

and

ENG 103 Stretch Composition II (6)

or

ENG 105 Composition and Rhetoric (3, G.E. A2)  
 PHYS 200 General Physics I (4, G.E. B2)  
 Computer Science Course (2-4)  
 G.E. Section A, C, D, or E (3)

#### Sophomore Year (22-23 Units)

MATH 240 Linear Algebra (3)  
 MATH 250 Calculus III (3)  
 MATH 300 Discrete Mathematics (3)  
 MATH 350 Differential Equations and Dynamical Systems (3)

### Junior Year (15-18 Units + G.E)

MATH 331 History of Mathematics (3, G.E. B3, D, Interdisciplinary)  
 MATH 351 Real Analysis (3)  
 MATH 352 Probability and Statistics (3)  
*Choose one of the groups from the Emphasis Courses listed above.*

### Senior Year (14-15 Units+ G.E.)

MATH 451 Complex Analysis (3)  
 MATH 499 Senior Colloquium (1) Fall  
 MATH 499 Senior Colloquium (1) Spring  
 Choose 3 or more Math Electives (9-12)

### TOTAL REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN MATHEMATICS DEGREE (120 UNITS)

Lower Division Required Major Courses (34-35)  
 Upper Division Required Major Courses (20)  
 Upper Division Elective & Emphasis Major Courses (15-19)  
 Electives (16)  
 General Education Included in Major Requirements (18)  
 General Education and American Institutions Requirement (34)

### REQUIREMENTS FOR THE MINOR IN MATHEMATICS (20 UNITS)

MATH 150 Calculus I (4)  
 MATH 151 Calculus II (4)  
 MATH 300 Discrete Mathematics (3)

In addition, students should select three upper division courses (9 units) from the Mathematics program approved by the advisor. Approval is not required for Computer Science majors.

## REQUIREMENTS FOR THE MINOR IN FOUNDATIONAL MATHEMATICS (34-36 UNITS)

This minor meets the needs of non-mathematics majors intending to enter a middle school mathematics teaching credential program. Especially, many Liberal Studies students would like to teach upper level elementary mathematics.

### LOWER DIVISION REQUIREMENTS (15-16 UNITS)

(including pre-/co-requisites)

MATH 101 College Algebra (3)

or

MATH 105 Pre-Calculus (4)

or

MATH 150 Calculus I (4)

MATH 201 Elementary Statistics (3)

or

MATH 202 Biostatistics (3)

MATH 208 Modern Mathematics for Elementary Teaching I-Numbers and Problem Solving (3)

MATH 230 Logic & Mathematical Reasoning (3)

MATH 240 Linear Algebra (3)

### UPPER DIVISION REQUIREMENTS (16 UNITS)

(including pre-/co-requisites)

MATH 308 Modern Mathematics for Elementary School Teaching II-Geometry, Probability and Statistics (3)

MATH 318 Mathematics for Secondary School Teachers (3-T) (3)

MATH 330 Mathematics and Fine Arts (3)

MATH 331 History of Mathematics (3)

MATH 492 Internship (1-3)

or

LS 499 Capstone Project (1-3)

MATH 499 Senior Colloquium (1)

#### Electives

*Choose one course from the list below (3-4 units)*

MATH 150 Calculus I (4)

MATH 151 Calculus II (4)

MATH 300 Discrete Mathematics (3)

MATH 393 Abstract Algebra (3)

MATH 482 Number Theory & Cryptography (3)

or

Other upper division math course (3-4)

## MASTER OF SCIENCE IN MATHEMATICS

(Offered through CSU Channel Islands' Extended Education Program)

Our MS in Mathematics program is interdisciplinary and innovative in nature, offers flexible schedule with highly qualified faculty. It is designed to address the global need for people with advanced mathematical, computational, and computer skills throughout the industry, high-tech, and educational systems. Students will be given a strong background in mathematics, computer software, as well as skills to conduct an independent applied research or develop independent projects. The program will stress interdisciplinary applications, for example in Actuarial Sciences, Cryptography, Security, Image Recognition, Artificial Intelligence, and Mathematics Education. Students' specializations depend on the final project/thesis and the electives chosen under the supervision of Mathematics advisor. Individual study plan can be design to meet entry requirements for Ph.D. programs in Mathematical Sciences.

### ADMISSION REQUIREMENTS

1. **Application.** Apply to both the University and the Mathematics Program. Forms are available at the Extended Education Office and on-line at <http://math.csuci.edu/>.
2. **Recommendation.** At least two letters of recommendations from academia or professional supervisors.
3. **Subject Matter Preparation.** Applicants are expected to hold BS degree in mathematics. However students with other degrees (or equivalent coursework) maybe considered and admitted conditionally (subject to completing relevant undergraduate mathematics courses).
4. **GPA of 3.0 in Mathematical Sciences.** If applicant does not have the required GPA, conditional admission maybe available on a limited bases.
5. **GRE** (general and mathematics) scores are recommended, but not required.

### FACULTY AND CONTACT INFORMATION

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## REQUIREMENTS FOR THE MASTER OF SCIENCE IN MATHEMATICS (32 UNITS)

### Core Courses (11 Units)

Choose 3 courses from the following list:

- MATH 510 Probabilistic Methods and Measure Theory (3)
- MATH 511 Functional Analysis (3)
- MATH 513 Advanced Algebra (3)
- COMP 510 Algorithms (3)
- COMP 569 Artificial Intelligence (3)
- PHYS 510 Advanced Image Analysis Techniques (3)

*And required two units of:*

- MATH 599 Graduate Seminar (1)

### Electives (15 Units)\*

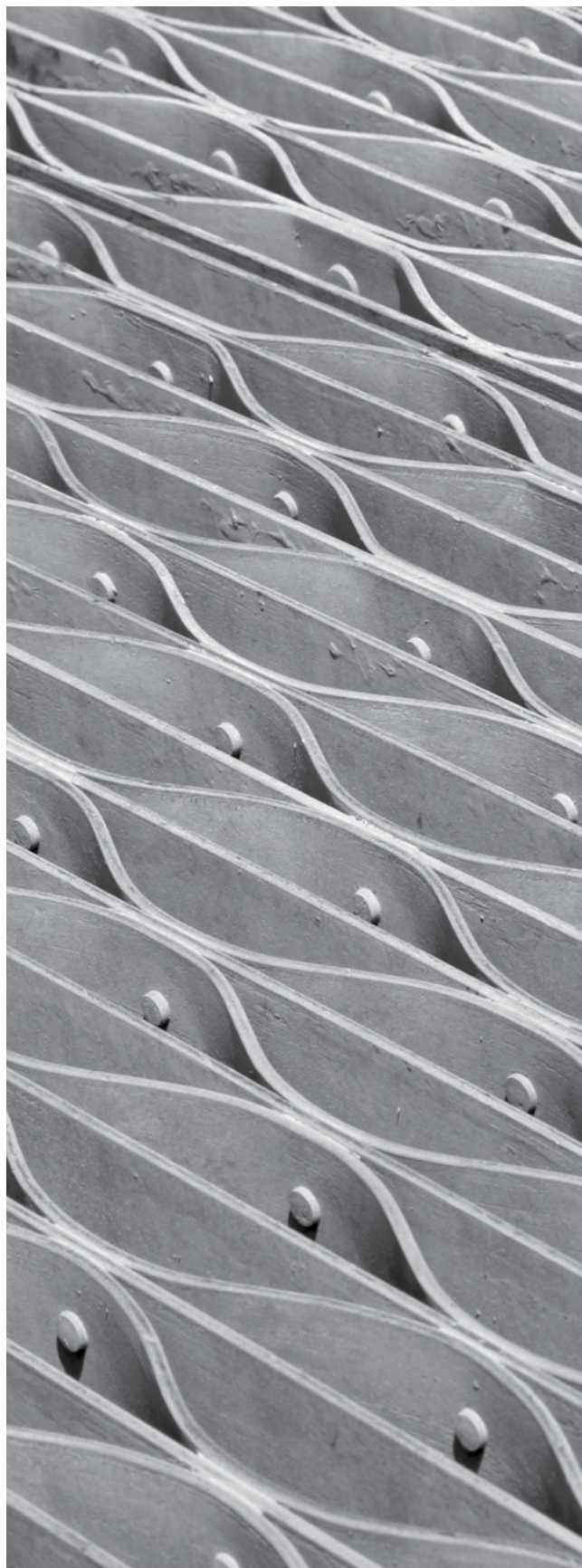
Choose 5 Electives from the following list (at least 3 courses in mathematics):

- MATH 511 Functional Analysis (3)
- MATH 513 Advanced Algebra (3)
- MATH 555 Actuarial Sciences (3)
- MATH 565 Research in Mathematics Education (3)
- MATH/COMP 581 Mathematical Methods in Artificial Intelligence (3)
- MATH 582 Number Theory and Cryptography (3)
- MATH 584 Algebraic Geometry & Coding Theory (3)
- MATH 587 Markov Chains & Markov Processes (3)
- MATH 588 Stochastic Analysis (3)
- PHYS 546 Pattern Recognition (3)
- COMP 520 Advanced Database Systems (3)
- COMP 524 Security (3)
- COMP 529 Network Computing (3)
- COMP 549 Human-Computer Interaction (3)
- COMP 550 Object-Oriented Software Engineering (3)
- COMP 569 Artificial Intelligence (3)
- COMP 571 Biologically Inspired Computing (3)
- COMP 572 Neural Networks (3)
- COMP 575 Multi-Agent Systems (3)
- COMP 578 Data Mining (3)

\*other graduate or junior/senior courses may be included with advisors approval.

### PROJECT OR MASTER THESIS EMPHASIS (6 UNITS)

- MATH 597 Master Thesis
- or*
- MATH 598 Master Project





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## NURSING

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### PROGRAMS OFFERED

- Bachelor of Science in Nursing

Nursing is the art and science of care for individuals, families and communities in a variety of settings. The discipline of nursing integrates the life, social and behavioral sciences with general education, nursing theory and clinical courses to produce a graduate capable of functioning autonomously as a member of a multidisciplinary team, managing and coordinating personnel, services, resources and data in addition to providing patient care.

The CSUCI graduate nurse seeks solutions to societal health needs and problems, understanding demographics and disparities in healthcare, ethical concerns and global perspectives in the practice of professional nursing at the generalist level.

### CAREERS

The Bachelor of Science in Nursing features a clinical summer internship in a health care agency followed by two senior work study options. These experiences, in addition to the curriculum, prepare graduates for acute care, specialty units, public health, home health, extended care, assisted living, ambulatory, emergency, managed care, case management, occupational health and nursing management, staff development, and nursing education.

### PROGRAM LEARNING OUTCOMES

Students completing the requirements for a B.S. degree in Nursing will be able to:

- function within the professional nursing roles as a provider and a coordinator of care, a health educator, an advocate and as a member of the nursing profession in a variety of institutional settings;
- collaborate as a member or as a leader of a health care team in the planning, implementation and improvement of health care services consistent with the health needs of a diverse and multicultural society;
- follow the nursing process by assisting clients, families and communities to promote an optimum level of wellness, sustain life, recover from disease or injury in acute, long term care, insitutional and community settings;
- function as a successful professional by a commitment to self-growth, development and lifelong learning;
- for generic students meet the eligibility requirements to successfully pass the nursing licesnure examination (NCLEX); and
- for generic and RN to BSN students meet the eligibility requirements for the California Public Health Nurse Certificate.

### FACULTY

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### REQUIREMENTS FOR ADMISSION TO THE NURSING PROGRAM

#### CRITERIA FOR ADMISSION TO THE GENERIC (BASIC) TRACK I NURSING MAJOR

The generic Track I of the nursing program uses the cohort model of class scheduling and requires full time enrollment. Students move as a group through the designated nursing courses in sequence. Courses are designed so that 200 level courses are prerequisite to 300 level nursing courses and so on. The time to complete the baccalaureate degree in nursing is designed for four years of full time study.

**Application.** Apply to both the University and the Nursing Program at the end of the freshman year.

**Prerequisite Courses.** Completion of all nursing major prerequisite courses or their equivalents.

BIOL 210 Anatomy and Physiology I (4)  
BIOL 211 Anatomy and Physiology II (4)  
BIOL 217 Medical Microbiology 217 (4) GE B2  
CHEM 110 Chemistry of Life (4) GE B1  
COMM 101 Public Speaking (3) GE A1  
ENGL 105 Composition Rhetoric (3) GE A2  
Any General Education Category B3 BIOL 203  
Preferred  
Completion of critical thinking requirement

**Grade Point Average.** An overall GPA of 2.0 or greater in the prerequisite nursing courses with no grade lower than a C.

**Eligibility.** Pre-nursing majors must be accepted to the nursing major to be eligible for the lower division nursing courses.

**Insurance/Health Clearance:** Students in the nursing program are required to have malpractice insurance, demonstrate a sufficient immunization record consistent with that required of clinical placement in local health care agencies and pass a physical examination.



Students must complete a criminal background check and drug screening prior to clinical placement.

Impaction status was granted by the CSU Chancellor's Office and supplemental criteria for admission will be required.

Supplemental criteria include: GPA in pre-nursing core course requirements, overall cumulative GPA, English language proficiency, basic math proficiency, proficiency in a second language, previous education or work experience and residency in preferred geographic areas.

## GENERIC (BASIC) TRACK I

### Lower Division Requirements for the Bachelor's Degree in Nursing (32 Units)

NRS	200	Introduction to Professional Nursing Practice (2)
NRS	201	Introduction to Professional Nursing Laboratory (2)
NRS	203	Therapeutic Nursing Communication Laboratory (1)
NRS	204	Pharmacology of Nursing Practice (2)
NRS	220	Nursing Care of Adults with Acute and Chronic Illness I (2)
NRS	221	Nursing Care of Adults with Acute and Chronic Illness Laboratory I (2)
NRS	222	Nursing Care of Adults with Acute and Chronic Illness II (4)
NRS	223	Nursing Care of Adults with Acute and Chronic Illness Laboratory II (4)
NRS	230	Nursing Care of Infants, Children and Families (4)
NRS	231	Nursing Care of Infants, Children and Families Laboratory (4)
NRS	240	Psychiatric & Mental Health Nursing (3)
NRS	241	Psychiatric and Mental Health Nursing Laboratory (2)

## FOR A BACHELOR OF SCIENCE IN NURSING

### Upper Division Requirements For the Bachelor's Degree in Nursing (34 Units)

NRS/BIOL	306	Pathophysiology (3)
NRS	352	Health Promotion and Patient Education Strategies (3)
NRS	350	Nursing Research (3)
NRS	401	Advanced Clinical Assessment Laboratory (2)
NRS	420	Nursing Care of the Complex Client Across the Continuum (3)
NRS	421	Nursing Care of the Complex Client Across the Continuum Laboratory (3)
NRS	452	Community Health Nursing (3)
NRS	453	Community Health Nursing Laboratory (3)
NRS	460	Nursing Leadership and Professional Issues (4)
NRS	461	Nursing Leadership and Professional Issues Laboratory (3)
NRS	488	Transition to Professional Nursing Practice (2)
NRS	491	Transition to Nursing Practice Internship (2)

## Required Supporting and Other GE Requirements (67 Units)

1. Biology (15 units)
  - BIOL 210 Anatomy and Physiology I (4)
  - BIOL 211 Anatomy and Physiology II (4)
  - BIOL 217 Medical Microbiology (4) GE B2
  - BIOL 432 Principles of Epidemiology and Environmental Health (3)
2. Chemistry (4 units)
  - CHEM 110 Chemistry for Life (4) GE B1
3. Nutrition (3 units)
  - NRS/BIOL 260 Nutrition for Therapeutics & Health (3)
4. Mathematics/Statistics (3 units)
  - Any General Education Category B3 BIOL 203 Preferred
5. Anthropology (6 units)
  - ANTH 102 Cultural Anthropology (3) GE C3b, D
  - or*
  - SOC 100 Introduction to Sociology
  - and*
  - ANTH 443 Medical Anthropology: Cross Cultural Perspectives on Health and Healing (3) GE D, INTD
6. Psychology (6 units)
  - PSY 100 Introduction to Psychology (3) GE D, E
  - PSY 213 Developmental Psychology (3) GE D, E
7. Other GE courses in Category A (9 units)
8. American Institutions (6 units)

## REQUIREMENTS FOR ADMISSION TO THE RN-BSN TRACK II NURSING MAJORS

**Application.** Apply to both the University and the Nursing Program.

**Prerequisite Courses.** Completion of all nursing major prerequisite courses or their equivalents:

BIOL 210 Anatomy and Physiology I (4)  
 BIOL 211 Anatomy and Physiology II (4)  
 BIOL 217 Medical Microbiology 217 (4) GE B2  
 CHEM 110 Chemistry of Life (4) GE B1  
 COMM 101 Public Speaking (3) GE A1  
 ENGL 105 Composition Rhetoric (3) GE A2  
 Any General Education Category B3 BIOL 203 Preferred  
 Completion of critical thinking requirement

**License.** Have or be eligible to acquire a valid California RN license.

**Degree.** Be a graduate of a BRN approved pre-licensure degree program from an accredited educational institution.

**Insurance/Health Clearance:** Students in the nursing program are required to have malpractice insurance, demonstrate a sufficient immunization record consistent with that required of clinical placement in local health care agencies and pass a physical examination. Criminal background check and drug screening must be completed before clinical placement.

**Grade Point Average.** The minimum grade in every pre-nursing prerequisite course is a C.

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN NURSING (133 UNITS)

### FOR RN TO BSN TRACK II

#### Upper Division Requirements (35 Units)

NRS/BIOL	306	Pathophysiology (3)
NRS	310	Professional Role Transition for the Transfer Student (3)
NRS	311	Professional Role Transition for the RN (2)
NRS	352	Health Promotion and Patient Education Strategies (3)
NRS	350	Nursing Research (3)
NRS	401	Advanced Clinical Assessment Laboratory (2)
NRS	420	Nursing Care of the Complex Client Across the Continuum (3)
NRS	421	Nursing Care of the Complex Client Across the Continuum Laboratory (3)
NRS	452	Community Health Nursing (3)
NRS	453	Community Health Nursing Laboratory (3)
NRS	460	Nursing Leadership and Professional Issues (4)
NRS	461	Nursing Leadership and Professional Issues Laboratory (3)

#### Prerequisite/Preparatory Nursing Courses for the RN to BSN Student Requirements

1. Biology (12 units)
  - BIOL 210 Anatomy and Physiology I (4)
  - BIOL 211 Anatomy and Physiology II (4)
  - BIOL 217 Microbiology (4) GE B2
2. Chemistry (4 units)
  - CHEM 110 Chemistry for Life (4) GE B1
3. Nutrition (3 units)\*
  - NRS/BIOL 260 Nutrition for Therapeutics & Health (3)

\*Not required if content was integrated in nursing classes
4. Mathematics/Statistics (3 units)
  - Any General Education Category B3 BIOL 203 Preferred

5. Anthropology (3 units)
  - ANTH 102 Cultural Anthropology (3) GE C3b, D
  - or*
  - SOC 100 Introduction to Sociology (3) GE D
6. Psychology (6 units)
  - PSY 100 Introduction to Psychology (3) GE D, E
  - PSY 213 Developmental Psychology (3)\* GE D, E

\*Not required if content was integrated in nursing classes

#### Required Supporting Courses (6 Units)

ANTH	443	Medical Anthropology: Cross Cultural Perspectives on Health and Healing (3) GE D, INTD
BIOL	432	Principles of Epidemiology and Environmental Health (3) GE B2, D, INTD

#### CRITERIA FOR PROGRAM CONTINUANCE FOR BOTH TRACKS

1. Nursing majors must attain grades of C or better in all required nursing and non-nursing courses. Required nursing courses for which the student earns less than a grade of C may be repeated once with instructor consent but only on a space available basis.
2. Students in the nursing major must maintain good academic standing. Students on academic probation are not permitted to enroll in a nursing course until the probation has been removed.

## PERFORMING ARTS

### PROGRAM OFFERED

- Bachelor of Arts in Performing Arts

The Performing Arts Program at California State University Channel Islands offers a broad, integrated undergraduate experience in music, theatre, and dance, with attention to the relatively new fields of audience and performance studies. The core courses provide the base necessary for building an educational and professional career in the performing arts.

Core courses offer experience in each of the three major areas of the performing arts—Dance, Music and Theatre—with special attention to current and future trends. Students also choose an emphasis to follow through one of the following areas:

- The Dance emphasis (PADA) provides concentrated study in collaborative dance performance and musical theatre
- The Music emphasis (PAMU) provides concentrated study in commercial music and musical theatre and collaborative performance.
- The Theatre emphasis (PATH) provides concentrated study in acting, directing and musical theatre and collaborative performance.

The Performing Arts degree program stresses interdisciplinarity and the multicultural, global perspectives that are the hallmarks of CSUCI. In addition to gaining expertise and experience in their chosen fields of Dance, Music, or Theater, students will gain interdisciplinary experience in the performing arts, with education and experience in the intersections between the fields.

### CAREERS

The Performing Arts major will prepare students for further study and for entry into the performing arts professions.

### PROGRAM LEARNING OUTCOMES

Performing Arts students will develop their abilities to think critically, analyze written and visual texts, express themselves effectively in written, physical and spoken forms, and to apply multiple theoretical perspectives to their own performances and the performances of others.

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### REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN PERFORMING ARTS (120 UNITS)

Core Requirements:	18 units
Emphasis:	21 units
General Education:	39 units
Upper Division Interdisciplinary GE:	9 units
Title V Courses:	6 units
Performing Arts Electives:	12 units
Electives in any discipline:	15 units

Total Required Units: 120 units

### PERFORMING ARTS CORE COURSES (18 UNITS)

PA	101	Introduction to the Performing Arts (3)
PA	202	Integrating Dance, Music and Theatre (3)
PA	335	Business and the Performing Arts (3)
PA	350	Audience and Performance Studies (3)
PA	360	Musical Theatre (3)
PA	436	Physics of Performing Arts (3)

### EMPHASIS REQUIREMENTS

Students choose either Dance, Music, or Theater as an emphasis.

#### Dance Emphasis (21 units)

PADA	151	Conditioning for Dancers (3)
PADA	253	Jazz Dance I (3)
PADA	254	Modern Dance I (3)
PADA	353	Jazz Dance II (3)
PADA	354	Modern Dance II (3)
PADA	458	Dance Ensemble (3)
PADA	499	Performing Arts Capstone Internship in Dance (3)



### Music Emphasis (21 units)

PAMU	100	Music Appreciation (3)
PAMU	261	Music Theory (3)
PAMU	363	Music History (3)
PAMU	330	Jazz in America (3)
PAMU	499	Performing Arts Capstone Internship in Music (3)

**6 units in the following repeatable courses, in consultation with the PAMU advisor:**

PAMU	109	Private Lessons (1)
PAMU	307	University Chorus (1)
PAMU	308	University Orchestra (1)
PAMU	309	Private Lessons (1)

### Theatre Emphasis (21 units)

PA/	338	Theatre in History (3)
HIST		
PATH	280	Acting I (3)
PATH	281	Play Analysis (3)
PATH	380	Acting II (3)
PATH	382	Directing (3)
PATH	481	Production (3) ( <i>Repeated once for 6 units</i> )
PATH	499	Performing Arts Capstone Internship in Theatre (3)

### STRONGLY SUGGESTED ELECTIVE COURSES

PA/	338	Theatre in History (3) ( <i>Theatre Emphasis students may not double-count this course as an elective</i> )
HIST		
PATH/	333	Multicultural Drama in Performance and Production (3)
ENGL		
PATH/	410	Shakespeare's Plays (3)
ENGL		

### PERFORMING ARTS ELECTIVES

12 units of electives from the following list:

(*Note—some courses listed as electives are required in one of the emphases but remain electives for the other two emphases.*)

PA/ART	383	Scenic Design (3)
PA/ART	384	Costume Design (3)
PAMU	100	Music Appreciation (3)
PAMU	109	Private Lessons (1)
PAMU	200	History of Rock (3)
PAMU	307	University Chorus (1)
PAMU	308	University Orchestra (1)
PAMU	309	Private Lessons (1)
PAMU	330	Jazz in America (3)
PAMU	333	The Varieties of Musical Experience (3)
PAMU/	335	The Physics of Music (3)
PHYS		
PAMU/	336	Art and Music: Dissonance, Diversity and Continuity (3)
ART		
PAMU	243	Teaching Music to Children (3)
PAMU/	432	Arts of the Harlem Renaissance (3)
ART/ENGL		
PATH/	332	Teaching Dramatic Literature (3)
ENGL		
PATH/	333	Multicultural Drama in Performance/ Production (3)
ENGL		
PATH	380	Acting II (3)
PATH/	412	Drama of Ancient Greece (3)
ENGL		
PATH/	444	Original Practice in Renaissance Drama (3)
ENGL		
ENGL	463	Writing for the Stage and Screen (3)





## POLITICAL SCIENCE

### PROGRAMS OFFERED

- Bachelor of Arts in Political Science
- Minor in Political Science

Political Science is the study of government, public policies and political behavior. Political Science uses both humanistic and scientific perspectives and skills to examine all countries and regions of the world. The Political Science Program is based on the educational objectives emphasized in the California State University Channel Island's mission. All students graduating with a degree in Political Science will have taken course work and developed competencies in all four key areas of the university mission: interdisciplinary and integrative learning; multicultural perspectives; international perspectives and civic engagement through service learning or experiential learning. Unlike traditional political science majors, all students will be required to complete a course on racial politics in the United States. This is not only consistent with our mission, but it reflects the ethnic and racial reality of California in the 21st century. The curriculum will have a strong international component as well, as all graduates will take international politics, and comparative government, and many of the elective courses emphasize international perspectives. All students graduating from CSUCI must complete nine units of upper division interdisciplinary course work. Finally, experiential and service learning are woven throughout the curriculum, and the required capstone course is a community based project designed to synthesize learning through analysis of an important policy issue.

### CAREERS

The Political Science Program prepares students for careers in federal state and local governments, law, business, international organizations, nonprofit associations and organizations, campaign management and polling, journalism, education, electoral politics, research and advocacy. In addition, the major in Political Science prepares students for graduate and professional study in the field of Political Science as well as International Relations and Public Administration.

### PROGRAM LEARNING OUTCOMES

Students completing the requirements for a B.A. degree in Political Science will be able to:

- write clearly and with purpose on issues of international and domestic politics and public policy;
- participate as a civically engaged member of society;
- analyze political and policy problems and formulate policy options;
- use electronic and traditional library resources to research key local, state, national and international policy issues and present results;
- demonstrate competency with basic tools underlying modern social science research including competency in statistics and qualitative analysis
- demonstrate critical thinking, including the ability to form an argument, detect fallacies, and marshal evidence, about key issues of public policy and politics;
- discuss the major theories and concepts of political science and its subfields; and
- deliver thoughtful and well articulated presentations of research findings.

### FACULTY

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## REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN POLITICAL SCIENCE (120 UNITS)

### LOWER DIVISION REQUIREMENTS (9 UNITS)

POLS	102	Comparative Government (3)
POLS	103	Introduction to International Politics (3)
POLS	150	American Political Institutions (3) *

\*Partially satisfies the American Institutions Requirement. The History portion is contained in the general requirements at the end of the major.

### UPPER DIVISION REQUIREMENTS (15 UNITS)

POLS	300	Research Methods in Political Science (3)
POLS	301	Political Theory (3)
POLS/ SOC/PSY	303	Statistical Applications in the Social Sciences (3)
POLS	306	The Politics of Race and Ethnicity (3)
POLS	499	Capstone (3)

### ELECTIVES (15 UNITS)

Students should select a total of 15 units from the following list:

ESRM	328	Introduction to Geographic Information Systems (3)
POLS	140	California Government and Politics (1)
POLS	305	Gender and Politics (3)
POLS	315	Congress and the Presidency (3)
POLS	316	State and Local Politics and Policy (3)
POLS	317	Judicial Power and Process (3)
POLS	318	The Electoral Process (3)
POLS	320	Public Administration (3)
POLS/	321	Public Budgeting (3)
FIN		
POLS	325	American Public Policy (3)
POLS	326	Government and Politics of Selected Nations (3)
POLS	327	International Relations of Selected Areas (3)
POLS	328	American Foreign Policy (3)
POLS	329	International Law and Organizations (3)
POLS/	330	Political Sociology (3)
SOC		
POLS/	331	Narratives of the Working Class (3)
ENG/ECON/HIST/SOC		
POLS/	335	Politics and Film (3)
COMM		
POLS/	340	Politics and the Environment (3)
ESRM		
POLS/	345	Science and Public Policy (3)
BIOL		
POLS	401	Constitutional Law (3)
POLS	402	Civil Rights and Civil Liberties (3)
POLS/	430	Political Communication (3)
COMM		
POLS/	431	Education Policy and Politics (3)
EDUC		
POLS	490	Special Topics in Political Science (3)
POLS	492	Service Learning in Political Science (3)
POLS	493	Internship in Political Science (3)
POLS	494	Independent Research (1-3)

## REQUIREMENTS FOR THE MAJOR IN POLITICAL SCIENCE (120 UNITS)

Lower, Upper Division and Electives	39
General Education	48
Free Elective	30
American Institutions Requirement *	3
chosen from the following: HIST 270, HIST 271, HIST 272, HIST 275	

\*The Government portion of the American Institutions Requirement (POLS 150) is listed in the major courses above.

## REQUIREMENTS FOR THE MINOR IN POLITICAL SCIENCE (18 UNITS)

### LOWER-DIVISION REQUIREMENTS (9 UNITS)

POLS	102	Comparative Government (3)
POLS	103	Introduction to International Politics (3)
POLS	150	American Political Institutions (3)

### UPPER-DIVISION REQUIREMENTS (9 UNITS)

Students should select a total of 9 units from the following:

ECON	370	The World Economy (3)
ESRM	328	Introduction to Geographic Information Systems (3)
ESRM	329	Environmental Law and Policy (3)
FIN	421	Public Financial Management (3)
HIST	412	Law and Society (3)
POLS	300	Research Methods in Political Science (3)
POLS	301	Political Theory (3)
POLS/	303	Statistical Applications in the Social Sciences (3)
SOC/PSY		
POLS	305	Gender and Politics (3)
POLS	306	The Politics of Race and Ethnicity (3)
POLS	315	Congress and the Presidency (3)
POLS	316	State and Local Politics and Policy (3)
POLS	317	Judicial Power and Process (3)
POLS	318	The Electoral Process (3)
POLS	320	Public Administration (3)
POLS/	321	Public Budgeting (3)
FIN		
POLS	325	American Public Policy (3)
POLS	326	Government and Politics of Selected Nations (3)
POLS	327	International Relations of Selected Areas (3)
POLS	328	American Foreign Policy (3)
POLS	329	International Law and Organizations (3)
POLS/	330	Political Sociology (3)
SOC		
POLS/	331	Narratives of the Working Class (3)
ENGL/ECON/HIST/SOC		
POLS/	335	Politics and Film (3)
COMM		
POLS/	340	Politics and the Environment (3)
ESRM		
POLS/	345	Science and Public Policy (3)
BIOL		
POLS	401	Constitutional Law (3)
POLS	402	Civil Rights and Civil Liberties (3)

POLS/	430	Political Communication (3)
COMM		
POLS/	431	Education Policy and Politics (3)
EDUC		
POLS	490	Special Topics in Political Science (3)
POLS	492	Service Learning in Political Science (3)
POLS	493	Internship in Political Science (3)
POLS	494	Independent Research (1-3)





## PSYCHOLOGY

### PROGRAMS OFFERED

- Bachelor of Arts in Psychology
- Minor in Psychology
- Minor in Developmental Psychology

Psychology is the study of the aspects of mind related to human nature, our relationships to each other, and our relationship to the world at large. While psychology is often scientific in its outlook, it also includes ways of knowing and understanding the world based on philosophy and the arts. In this sense psychology is one of the broadest of disciplines, encompassing a wide range of academic areas and endeavors. Psychology recognizes the diverse cultural, economic, ethnic, historical, and political viewpoints that exist in a multicultural world. The discipline seeks to understand how these viewpoints interact with individual and group behavior in order to encourage a rich pluralism of human interaction.

The psychology program at CSUCI is unique in two aspects. The first is that students will have some exposure to all major areas of psychology through a required sequence of core courses. Included in these courses is a year-long upper division course in quantitative reasoning. This core-course curriculum borrows an ideology from the best undergraduate psychology programs, producing students with knowledge in all branches of psychology as well as methodological skills that can be widely applied within and outside of the discipline.

The second unique aspect of the CSUCI psychology program is its interdisciplinary course offerings. These interdisciplinary courses offer students a chance to experience the intersection of psychology with other disciplines. This closely follows how psychology is understood and practiced in the world at large.

### CAREERS

Graduates of the CSUCI undergraduate psychology program will be prepared to work in a variety of settings. Typically, psychology graduates do well finding jobs. However, we recognize that nationally approximately 23% of undergraduate psychology majors go on to graduate school for masters, doctorates, or other professional degrees. Therefore, the psychology faculty at CSUCI are committed to helping students gain admittance into graduate or professional schools.

### PROGRAM LEARNING OUTCOMES

Graduating from the Psychology program:

- students should be familiar with the major theoretical approaches, findings and historical trends in psychology;
- students should understand and be able to use major research methods in psychology, including design, data analysis and interpretation;
- students should have an understanding of applications of psychology to personal, social and organizational issues;
- students should demonstrate information competence and the ability to use computers and other technology for multiple purposes;
- students should use and respect skeptical inquiry, critical thinking, and the scientific approach to understanding behavior;
- students should have an understanding of the complexity of cultural diversity;
- students should be able to express themselves effectively in written and oral communication; and
- students should understand themselves and others in a cultural context and develop interpersonal skills for diverse settings over the lifespan.

### FACULTY

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## **REQUIREMENTS FOR THE B.A. IN PSYCHOLOGY (120 UNITS)**

### **LOWER DIVISION REQUIRED COURSES (15 UNITS)**

*Psychology majors must take each of these courses:*

PSY	100	Introduction to Psychology (3)
PSY	202	Statistics (same as BIO 202 and Math 202) (3)
PSY	211	Cognition and Learning (3)
PSY	213	Developmental Psychology (3)
PSY	217	Theories of Personality (3)

Students will need to obtain a grade of C- or better to apply these courses to the psychology major. Students may substitute equivalent courses taken at other universities in each area by articulation agreement or by permission of the Psychology program. Nine units from these required lower division courses may be counted towards GE requirements.

### **UPPER DIVISION REQUIRED CORE COURSES (22 UNITS)**

Psychology majors will normally take these courses at CSUCI. Students may substitute equivalent courses taken at other universities in each area by articulation agreement or by permission of the Psychology program. All courses must be passed with a grade of C- or better to apply toward the Psychology major.

PSY	300	Psychological Research and Statistical Methods with Lab I (3)
PSY	301	Psychological Research and Statistical Methods with Lab II (3)
PSY	310	History and Systems of Psychology (3)
PSY	312	Social Psychology (3)
PSY	313	Clinical and Abnormal Psychology (3)
PSY	314	Behavioral Neuroscience (4)
PSY	316	Sensation and Perception (3)

### **UPPER DIVISION PSYCHOLOGY ELECTIVES (12 UNITS)**

Psychology majors must take 12 units of Upper Division Psychology Electives. These courses range from 330-499 (up to 6 units from interdisciplinary Psychology courses number 330-349 or 430-449 may be double-counted towards the upper division GE requirement). Not all courses will be taught in all years. Students must obtain a grade of C- or better (or CR) in each of these courses to apply them to the psychology major. The current list of Upper Division Elective courses in Psychology is as follows:

PSY	333	Measurement and Testing of Groups and Individuals (3)
PSY	337	Psychological Ethics and Moral Philosophy (3)
PSY	338	Psychology of Art and Artists (3)
PSY	339	Psychology in Literature (3)
PSY	340	History and Psychology of Nazi Germany (3)
PSY	344	Psychology and Traditional Asian Thought (3)
PSY	345	Individuals with Disabilities in Society (3)

PSY	346	Psychology of Motivation (3)
PSY	400	Case Studies in Psychopathology and Clinical Psychology (3)
PSY	410	Psychological Testing (3)
PSY	415	Assessment of Children (3)
PSY	432	Seminar in Leadership (3)
PSY	436	Psychology and History of East Asian Warrior Cultures (3)
PSY	441	Psychology of Space (3)
PSY	445	Adolescent Development (3)
PSY	449	Human-Computer Interaction (3)
PSY	450	Advances in Neural Science (3)
PSY	457	Criminal Behavior (3)
PSY	461	Advanced Topics in Child and Adolescent Development (3)
PSY	470	Seminar in Freud and Object Relations Theory (3)
PSY	471	Seminar in Jungian and Archetypal Psychology (3)
PSY	473	Bizarre Behavior and Culture Bound Syndromes (3)
PSY	483	Applied Multivariate Analyses (3)
PSY	489	Advanced Topics in Psychology (3)
PSY	492	Psych Internship or Service Learning (1-3 units)
PSY	494	Independent Research in Psychology (1-3 units)
PSY	497	Directed Study in Psychology (1-3 units)
PSY	499	Senior Capstone in Psychology (1-3 units)

Required Supporting and Other GE Courses (72 units):  
General Education (48 units)  
Title V, United States History, Constitution and American Ideals (6)  
University electives (18 units)



## MINOR IN PSYCHOLOGY (18-19 UNITS)

The minor in psychology gives students concentrated exposure to the philosophy, history, methods and theories related to the study of the mind and behavior. The minor in psychology is appropriate for students interested in understanding how human psychological perspectives can influence their major field of study and the world around them.

### LOWER-DIVISION REQUIREMENTS (9 UNITS)

1. PSY 100 Introduction to Psychology (3)
2. Two courses from the following list (6):
  - PSY 210 Learning, Cognition, & Development (3)
  - or*
  - PSY 211 Cognition and Learning (3)
  - PSY 212 Neurobiology & Cognitive Science (3)
  - PSY 213 Developmental Psychology (3)
  - PSY 217 Theories of Personality (3)
  - PSY 220 Human Sexual Behavior (3)

### UPPER-DIVISION REQUIREMENTS (9-10 UNITS)

1. One course from the following list (3 units):
  - PSY 310 History and Systems in Psychology (3)
  - PSY 312 Social Psychology (3)
  - PSY 313 Clinical and Abnormal Psychology (3)
  - PSY 314 Behavioral Neuroscience (4)
2. Six (6) units of coursework from any psychology courses at the 300 level or above (6 units).

## MINOR IN DEVELOPMENTAL PSYCHOLOGY

### (Child and Adolescent Emphasis) (18-19 units)

The minor in developmental psychology gives students concentrated exposure to the methods and theories related to how children and adolescents develop. Cognitive, emotional, and social perspectives will be covered as well as methods for psychological assessment. The minor in developmental psychology is appropriate for students interested in understanding how human developmental perspectives can influence their major field of study.

### LOWER-DIVISION REQUIREMENTS (6 UNITS)

1. Each of the following courses (6 units):
  - PSY 210 Learning, Cognition, & Development (3)
  - or*
  - PSY 211 Cognition and Learning (3)
  - PSY 213 Developmental Psychology (3)

### UPPER-DIVISION REQUIREMENTS (12-13 UNITS)

1. One course from the following list (3 units):
  - PSY 310 History and Systems in Psychology (3)
  - PSY 312 Social Psychology (3)
  - PSY 313 Clinical and Abnormal Psychology (3)
  - PSY 314 Behavioral Neuroscience (4)
2. Three courses from the following list (9 units):
  - PSY 333 Measurement and Testing of Groups and Individuals (3)
  - PSY 345 Individuals with Disabilities & Society (3)
  - PSY 415 Assessment of Children (3)
  - PSY 445 Adolescent Development (3)
  - PSY 461 Advanced Topics in Child and Adolescent Development (3)



## SOCIOLOGY

### PROGRAMS OFFERED

- Bachelor of Arts in Sociology
- Minor in Sociology

Sociology is the systematic study of the organization, dynamics and consequences of social life. The scope of the discipline is as broad and diverse as social life itself. The subject matter of sociology ranges from the intimate family to the hostile mob, from crime to cults, from the divisions of inequities of race, ethnicity, nationality, gender, and class to the beliefs of a common culture, and from work to leisure and sport. The Sociology major at CSUCI is designed to give students the ability to analyze the world around them, its people and institutions, from local and particular issues that affect people in Ventura County and the region to national and international questions. The program stresses the mission of CSUCI: we value interdisciplinarity and we emphasize the multicultural, global perspective which is the hallmark of Channel Islands programs. Graduates of the Sociology Program will be well-trained in the empirical methodology of the discipline to engage in the systematic study of human social interaction and institutions. The Sociology major will prepare students for further study and for entry into a variety of professional paths.

### CAREERS

A B.A. degree in sociology can lead to career opportunities in law, management, marketing, public relations, journalism, social work, urban and environmental planning, public services, teaching, corrections, counseling, human resources, state and federal employment, and other professions. Sociology graduates are employed in both the for-profit and non-profit sectors. Many business, political science, pre-law and other students take sociology as a minor or a second major because of the applicability of sociology to their chosen professions. Graduate study can also lead to careers within the academy doing teaching and research, as well as careers in applied research in social service, public planning, education, mental health, business, and various governmental settings.

### PROGRAM LEARNING OUTCOMES

The Sociology Program at CSUCI has stated goals and learning objectives (see <http://sociology.csuci.edu/redesign/learningobjectives.htm>).

Students will demonstrate:

- Understanding the role of evidence in the social sciences and how to conduct both quantitative and qualitative sociological research;
- Effective communication, written and oral, about the field of sociology;
- Substantive knowledge of core areas and controversies in sociology and the ability to think critically about them;
- Understanding the history and evolution of the discipline of sociology; and
- Preparedness for professional or graduate study beyond the B.A. degree, or for entry into a career in the social sciences.

### FACULTY

Elizabeth Hartung

Professor and Chair, Sociology Program

Sage Hall, Room 2043

(805) 437-3274

[elizabeth.hartung@csuci.edu](mailto:elizabeth.hartung@csuci.edu)

### REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN SOCIOLOGY (120 UNITS)

The Sociology Major is a 42 Unit major. Students are encouraged to declare a second major or minor in a related discipline, depending on their interests.

#### LOWER DIVISION REQUIREMENTS (9 UNITS)

SOC	100	Introduction to Sociology (3)
SOC	201	Social Problems in a Service Learning Context (3)
SOC	202	Introduction to Research Methods (3)

#### UPPER DIVISION REQUIREMENTS (18 UNITS)

SOC/	303	Statistical Applications In The Social
POLS/PSY		Sciences (3)
SOC	310	Research Methods in Sociology (3)
SOC	350	Stratification and Social Class (3)
SOC	420	Classical Sociological Theory (3)
SOC	421	Contemporary Sociological Theory (3)
SOC	499	Capstone (3)



## EMPHASIS REQUIREMENTS (12 UNITS)

Select a minimum of 12 units in areas (1), (2) or (3).  
SOC 490, 492 and 494 must be cleared by instructor.

### 1. Institutions

SOC/	330	Political Sociology (3)
POLS		
SOC	412	Sex, Love and Money: The Family (3)
SOC	370	Crime and Society (3)
SOC/	320	Sociology of Popular Culture (3)
ENGL		
SOC	490	Topics in Sociology (3)
SOC	492	Field Experience in Sociology (3)
SOC	494	Independent Research (3)

### 2. Inequalities

SOC/	331	Narratives of the Working Class (3)
ECON/ENGL/HIST/POLS		
SOC	360	Race and Ethnicity (3)
SOC	410	Sociology of Gender and Sexuality (3)
SOC/BUS/ECON		
SOC	448	Sociology of Globalization and Development (3)
SOC	490	Topics in Sociology (3)
SOC	492	Field Experience in Sociology (3)
SOC	494	Independent Research (3)

### 3. Social Processes

SOC/	330	Political Sociology (3)
POLS		
SOC	440	Population Studies (3)
SOC/BUS/ECON		
SOC	448	Sociology of Globalization and Development (3)
SOC	340	Social Movements (3)
SOC	490	Topics in Sociology (3)
SOC	492	Field Experience in Sociology (3)
SOC	494	Independent Research (3)

### ELECTIVES (3 UNITS)

Three upper division elective units in sociology outside the student's emphasis area (see above).

### REQUIRED SUPPORTING, GE ELECTIVE COURSES (78 UNITS)

American Institutions Requirement (6)  
Other GE Courses (45)  
Electives (27)

## REQUIREMENTS FOR THE MINOR IN SOCIOLOGY (21 UNITS)

### LOWER-DIVISION REQUIREMENTS (6 UNITS) (including pre-/co-requisites)

SOC	100	Introduction to Sociology (3)
SOC	202	Introduction to Research Methods (3)

### UPPER-DIVISION REQUIREMENTS (15 UNITS)

15 units of upper division sociology courses in the core or across the area emphasis.





## SPANISH

### PROGRAM OFFERED

- Bachelor of Arts in Spanish
- Minor in Spanish

The Spanish program at CSUCI provides students the opportunity to develop their Spanish-language skills while deepening their knowledge and appreciation of the peoples and cultures of the Hispanic world. Spanish is the first language of approximately 400 million people in 21 countries. Hispanic cultures and peoples form an integral part of U.S. history and society, and Spanish is the most prevalent second language in California and in most regions of the country.

Being bilingual is a tremendous asset and can open doors to students entering numerous occupations and careers, such as advertising, agriculture, business, government, health services, interpreting, journalism, law, public relations, social services, teaching, translation, and the travel industry. These fields, and many others, increasingly seek candidates who possess Spanish language ability and cultural sensitivity. The program addresses the needs of students by preparing them for an increasingly pluralistic and globally oriented society, as well as a competitive career world.

The B.A. in Spanish is thirty-four (34) units, providing students the opportunity to pursue a minor in another discipline or even a second major. The Spanish minor is twenty (20) units. Students can choose course work that focuses on language, culture, linguistics, literature, Spanish for careers, translation, and art or history. All courses with a SPAN prefix are taught in Spanish so that students develop proficiency in the language. Spanish majors and minors are encouraged to participate in a study abroad program.

### PROGRAM LEARNING OUTCOMES

Students graduating from the Spanish program will be able to:

- achieve intermediate-high to advanced language proficiency in speaking, listening, reading and writing (proficiency levels are defined by the American Council on the Teaching of Foreign Languages); and
- demonstrate a reasonable understanding of the ways of thinking (ideas, beliefs, attitudes, values, philosophies), behavioral practices (patterns of social interactions), and the cultural products (for example, art, history, literature) of the Spanish-speaking world.

### FACULTY

Terry Ballman, Ph.D., Professor of Spanish  
Phone: (805) 437-8996  
E-mail: [terry.ballman@csuci.edu](mailto:terry.ballman@csuci.edu)

Antonio Jiménez Jiménez, Ph.D.,  
Assistant Professor of Spanish  
Phone: (805) 437-8501  
E-mail: [antonio.jimenez@csuci.edu](mailto:antonio.jimenez@csuci.edu)

### CONTACT INFORMATION

<http://spanish.csuci.edu/>

### REQUIREMENTS FOR THE MAJOR IN SPANISH (34 UNITS)

#### PREREQUISITES

Spanish majors will have completed the equivalent of first year college level Spanish in high school, at a community college, or by completing SPAN 101 and SPAN 102 at CSUCI, prior to beginning the Spanish major.

#### LOWER DIVISION REQUIREMENTS (8 UNITS)

Students must take eight (8) units of second-year Spanish courses:

SPAN	201	Intermediate Spanish I (4), <i>and</i>
SPAN	202	Intermediate Spanish II (4); <i>or</i>
SPAN	211	Spanish for Heritage Speakers I (4), <i>and</i>
SPAN	212	Spanish for Heritage Speakers II (4)

#### UPPER DIVISION REQUIREMENTS (26 UNITS)

Students with intermediate high language proficiency may begin the major by taking upper-division courses. Student proficiency will be determined according to the proficiency guidelines developed by the American Council on the Teaching of Foreign Languages, and will be assessed by the Spanish faculty. For these students, a total of 34 units of upper-division courses are required to complete the Spanish major.

All Spanish majors must complete at least 11 units of 400-level courses with a SPAN prefix.

#### CORE (11 UNITS)

All students must take one course from each of the following categories.

##### Language

SPAN	301	Advanced Spanish: Part One (3)
<i>or</i>		
SPAN	302	Advanced Spanish: Part Two (3)

##### Literature

SPAN	310	Introduction to Prose, Poetry & Drama (3)
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##### Culture

SPAN	410	Civilizations and Cultures of Spain (3)
<i>or</i>		
SPAN	411	Civilizations and Cultures of Latin America (3)

## Capstone

SPAN 499 Capstone in Spanish (2)

## Electives (15 units)

- SPAN\* 301 Advanced Spanish: Part One (3)  
*or*  
SPAN 302 Advanced Spanish: Part Two (3)  
SPAN 304 Spanish for Careers and Professions (3)  
SPAN 311 Estudios Literarios Bilingües (3)  
(cross-listed as ENGL 311 Bilingual Literary Studies)  
SPAN 315 Contrastive Features of Spanish and English (3)  
SPAN 320 Introduction to Spanish Translation (3)  
SPAN\* 410 Civilizations and Cultures of Spain (3)  
*or*  
SPAN 411 Civilizations and Cultures of Latin America (3)  
SPAN 415 Spanish Language Variation and Diversity (3)  
SPAN 420 Specialized Spanish Translation (3)  
SPAN 460 Masterpieces of Spanish Literature (3)  
SPAN 461 Masterpieces of Latin American Literature (3)  
SPAN 490 Special Topics in Spanish (3)

\*Students may choose as electives courses found in the Core, provided the 11-unit core is completed.

One of the following courses may also be chosen as an elective for the Spanish major:

- ART/ 333 History of Southern California Chicana/o Art (3)  
HIST  
ENGL/ 334 Narratives of Southern California (3)  
HIST  
ENGL 453 Hispanic/Hispanic American Literature (3)  
HIST 402 Southern California Chicano/a History and Culture (3)  
HIST 420 History of Mexico (3)  
HIST 421 Revolutionary Mexico, 1876-1930 (3)

## REQUIREMENTS FOR THE MINOR IN SPANISH (20 UNITS)

The Spanish minor provides students the opportunity to develop their Spanish-language skills while deepening their knowledge of the peoples and cultures of the Hispanic world. Students can choose from coursework which focuses on language, linguistics, culture, Spanish for careers, literature, translation, and art or history.

## LOWER DIVISION REQUIREMENTS (8 UNITS)

- SPAN 201 Intermediate Spanish I (4), *and*  
SPAN 202 Intermediate Spanish II (4); *or*  
SPAN 211 Spanish for Heritage Speakers I (4), *and*  
SPAN 212 Spanish for Heritage Speakers II (4).

## UPPER DIVISION REQUIREMENTS (12 UNITS)

Select Four (4) Courses from the Following:

- SPAN 301 Advanced Spanish: Part One (3)  
SPAN 302 Advanced Spanish: Part Two (3)  
SPAN 304 Spanish for Careers and Professions (3)  
SPAN 310 Introduction to Prose, Poetry & Drama (3)  
SPAN/ 311 Estudios Literarios Bilingües/ (3)  
ENGL Bilingual Literary Studies  
SPAN 315 Contrastive Features of Spanish and English (3)  
SPAN 320 Introduction to Spanish Translation (3)  
SPAN 410 Civilizations and Cultures of Spain (3)  
SPAN 411 Civilizations and Cultures of Latin America (3)  
SPAN 415 Spanish Language Variation and Diversity (3)  
SPAN 420 Specialized Spanish Translation (3)  
SPAN 421 Spanish for Educators I (3)  
SPAN 422 Spanish for Educators II (3)  
SPAN 460 Masterpieces of Spanish Literature (3)  
SPAN 461 Masterpieces of Latin American Literature (3)  
SPAN 490 Special Topics In Spanish (3)  
ART/ 333 History of Southern California Chicana/o Art (3)  
HIST







# Course Descriptions

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## COURSE DESCRIPTIONS

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### Course Numbering

- 100–299** Lower-Division Courses
- 300–499** Upper-Division Courses
  - 330–349** Interdisciplinary Courses—without prerequisites (including cross-listed courses)
  - 397** Directed Studies Course—variable topic credit courses
  - 430–449** Interdisciplinary Courses—may have prerequisites or require permission from the instructor (including cross-listed courses)
  - 490** Special Topics—variable topic/credit courses
  - 492** Service Learning/Internship Course—variable credit
  - 494** Independent Research Course—variable credit
  - 497** Directed Studies Course—variable topic/credit courses
  - 498** Senior Thesis Course—variable topic/credit courses
  - 499** Undergraduate Capstone Course
- 500–699** Graduate and Teacher Credential Courses

## ACCOUNTING

### ACCT 210 FINANCIAL ACCOUNTING (3)

Three hours lecture per week

Introduction to accounting principles: accumulation, measurement, and evaluation of accounting data. Topics include internal controls, financial statement analysis and interpretation, and use of spreadsheets in accounting applications.

### ACCT 220 MANAGERIAL ACCOUNTING (3)

Three hours lecture per week

Prerequisite: ACCT 210

Continues the exploration of accounting principles and topics: investing and financing activities, cost and budgeting systems, cash flow analysis, accounting for debt and equity, and introduces using accounting data for decision making.

### ACCT 290 FINANCIAL AND MANAGERIAL ACCOUNTING: INTENSIVE REVIEW (1)

Prerequisite: ACCT 210 and ACCT 220 or equivalent

Corequisite: ACCT 300

This course is an intensive in-depth review of the effect of accounting transactions on the basic financial statements, the uses and limitations of basic financial statements, cost function, cost behavior, and the impact of cost function and behavior on the basic financial statements and decision making. This accelerated course meets six hours each of the first three Saturdays of a semester.

Graded Credit/No Credit

### ACCT 300 APPLIED MANAGERIAL ACCOUNTING (3)

Three hours lecture per week

Prerequisite: ACCT 210 and 220 or equivalent courses

Presents and analyzes the principles, methods, procedures, and applications for managerial accounting. Topics include understanding the business environment, cost concepts and classifications, job-order costing, process costing, cost behavior and relationships to volume and profits, variable costing, Activity Based Costing, profit planning, standard costs, relevant costs, capital budgeting decisions, cash flows, Economic Value Added, and financial statement analysis.

### ACCT 410 INTERNATIONAL ACCOUNTING (3)

Three hours lecture per week

Prerequisite: ACCT 210 and 220

Designed to develop a fundamental knowledge of the assumptions, environmental considerations and techniques underlying the collection and reporting of financial information on an international scale.

### ACCT 490 SPECIAL TOPICS (3)

Three hours seminar per week

Prerequisite: Consent of the instructor

In-depth analysis of current topics in accounting. Topics vary each semester. Repeatable by topic.

### ACCT 492 SERVICE LEARNING/INTERNSHIP (3)

Six hours per week

Prerequisite: Consent of the instructor

Enrollment in this course is with permission of faculty member in charge. Individual internship through service learning.

Graded Credit/No Credit

### ACCT 497 DIRECTED STUDY (1-3)

Variable hours per week

Prerequisite: Consent of the instructor

Individual contracted study on topics or research selected by the student and faculty mentor. Repeatable for up to nine units.

Graded Credit/No Credit



## ANTHROPOLOGY

### **ANTH 102 CULTURAL ANTHROPOLOGY (3)**

Three hours lecture per week

The study of recent and modern societies using a cross-cultural perspective to gain an understanding on the range of human expression in culture and society. Issues discussed include ethnicity, gender, family structure, kinship, sex and marriage, socio-economic class, religion and the supernatural, language and culture, economics, political and social organization, art, and culture change.

Student Option: Graded or CR/NCR

GenEd: C3B,D

### **ANTH 104 INTRODUCTION TO BIOANTHROPOLOGY (3)**

Three hours lecture per week

Examines primate evolution, human genetics, and the natural selection forces affecting human evolution.

Understanding adaptations to environments and concepts of race examined.

Student Option: Graded or CR/NCR

GenEd: B2

### **ANTH 105 INTRODUCTION TO ARCHAEOLOGY (3)**

Three hours lecture per week

Examines the methods and theories archeologists use to understand the past. Origin and evolution of humans, physical and cultural adaptation, and social complexity.

Student Option: Graded or CR/NCR

### **ANTH 310 CIVILIZATIONS OF AN ANCIENT LANDSCAPE: WORLD ARCHAEOLOGY (3)**

Three hours lecture per week

Traces the relationship between the physical geography and the development of ancient civilizations in Pre-Columbian America, Africa, Asia, and Europe, beginning with the post-glacial period and ending with the rise of feudalism in Europe and Japan and including change from hunting and gathering groups to sedentary agriculturalists and pastoralists giving rise to later complex social organizations. Examines art, architecture, science, religion, trade economic and social systems.

Student Option: Graded or CR/NCR

GenEd: D

### **ANTH 323 NATIVE AMERICANS OF CALIFORNIA TO THE 1850S (3)**

Three hours lecture per week

This course examines the development of Native American peoples and cultures in California as they adapted to diverse environments. The environmental history of the last glacial and post-glacial periods will be examined to provide a backdrop for human history. Using archaeological, historical, and ethnographic sources, the culture history of California's Native Americans will be traced from antiquity to the 1850s. The impact of Spanish exploration, colonization, and the mission system will be traced from the perspectives of both the Native Americans and their colonizers.

Student Option: Graded or CR/NCR

GenEd: C3B,D

### **ANTH 332 HUMAN ECOLOGY (3)**

Three hours lecture per week

This human ecology course places humans into the environment in historical and global contexts.

Discusses systems theory as it applies to human adaptation to the environment. Studies the relations among political power, ideology, and resources, integrating concepts from ecology with those from social sciences. Theories and forecasts of human population growth and migration among regions and cultures. Social and environmental impacts of population and age distribution. Natural resource constraints on growth. Topics from land development, resource planning, environmental quality, politics, economic growth, conflicts and wars.

Same as ESRM 332

GenEd: D,Interdisciplinary

### **ANTH 345 HUMAN EVOLUTION AND DIVERSITY (3)**

Three hours lecture per week

Human biological evolution from the African savannah of 5 million years ago to the present, focusing upon adaptation to environmental conditions, disease, diet.

Includes segments on ecology, evolutionary theory, genetics, natural selection, non-human primates.

Discusses the concept of race from an anthropological perspective. Includes issues of speciation and race, adaptation to cold, heat, desert, tropics, and diseases.

Compares ethnicity vs. race.

Student Option: Graded or CR/NCR

GenEd: B2,Interdisciplinary

### **ANTH 442 THE AFRICAN DIASPORA (3)**

Three hours lecture per week

Examines the dispersal of Africans to other continents over the last two thousand years. Special attention will be paid to the African slave trade, identity formation, and nationalism. The course employs interdisciplinary methods borrowed from anthropology, art history, linguistics, and literature.

Same as HIST 442

GenEd: D,Interdisciplinary

### **ANTH 443 MEDICAL ANTHROPOLOGY: CROSS-CULTURAL PERSPECTIVES ON HEALTH AND HEALING (3)**

Three hours lecture per week

This course provides a cross-cultural perspective on human health issues. Uses biological, cultural, and behavioral approaches to understanding the concepts of diseases and their treatment, ethnoscience, health, and complementary and alternative medicine placed in a global perspective.

Student Option: Graded or CR/NCR

GenEd: D,Interdisciplinary



**ANTH 444 VALUES AND VALUABLES (3)**

Three hours lecture per week

Prerequisite: ANTH 102 or ECON 110

Examination of the intimate linkages between the creation of cultural values and the perception of economic value through the analysis of production and exchange in various cultural contexts. Synthesis of the debates in the field of economic anthropology and application to pre-historic, modern, Western and non-Western societies.

Same as ECON 444

GenEd: D, Interdisciplinary

**ANTH 490 SEMINAR IN ANTHROPOLOGY (3)**

Three hours seminar per week

Prerequisite: Consent of the instructor

This seminar explores a different topic each term.

Repeatable by topic.

Student Option: Graded or CR/NCR

**ANTH 492 SERVICE LEARNING/INTERNSHIP (1-3)**

Variable hours per week

Prerequisite: Consent of the instructor

Individual internship through service learning.

Graded Credit/No Credit

**ANTH 494 INDEPENDENT STUDY (1-3)**

Variable hours per week

Prerequisite: Consent of the instructor

Individual contracted study/research on topics selected by the student for further study.

Graded Credit/No Credit

**ART****ART 100 UNDERSTANDING FINE ARTS PROCESSES (3)**

Two hours lecture and two hours laboratory per week

Entry level art experience for non Art majors. This course integrates elements of drawing, painting, sculpture and mixed media techniques. Students gain an understanding of the function of Art in everyday life through participation in the artistic process.

GenEd: C1

**ART 102 MULTICULTURAL CHILDREN'S ART (3)**

Two hours lecture and two hours laboratory per week

Hands-on creation of artistic projects emphasize the importance of art in the child's development and the understanding of multicultural art traditions in subject matter, materials and processes. Historical contexts and indigenous aesthetics are investigated as they relate to the development of primary skills and appreciation for art and the creative process.

GenEd: C1,C3B

**ART 105 DRAWING AND COMPOSITION (3)**

Six hours laboratory per week

Basic fundamentals of drawing are explored through the use of various techniques and media. Investigations into line, value, perspective and composition as related to surface and pictorial space is also investigated.

**ART 106 COLOR AND DESIGN (3)**

Six hours laboratory per week

Explorations in basic color theory are conducted within two-and three-dimensional design contexts. Visual elements including line, shape, form and texture are explored incorporating elements of color interaction, harmony and dissonance within a variety of visual motifs.

**ART 107 LIFE DRAWING (3)**

Six hours laboratory per week

The study of the human figure and its representation depicted through gesture, contour value and volume. Anatomy, proportion, foreshortening and structure are explored through observation of props and live models.

**ART 108 VISUAL TECHNOLOGIES (3)**

Two hours lecture and two hours laboratory per week

An introductory survey of visual technologies commonly used by artists and designers. Projects explore software applications as they relate to current methods of digital art production. Emphasis is on the development of fundamental computer skills and an understanding of the relationship between digital media and visual design.

**ART 110 PREHISTORIC ART TO THE MIDDLE AGES (3)**

Three hours lecture per week

Survey of the history of art, artifacts and architecture from the Prehistoric era through the Gothic period. The examination of cultural and conceptual contexts will trace the early development of Western artistic traditions.

GenEd: C1

**ART 111 RENAISSANCE TO MODERN ART (3)**

Three hours lecture per week

Survey of the history of art and architecture from the European Renaissance through Modern Art. Cultural and conceptual contexts will examine the evolution of the art object as a form of Western cultural expression. GenEd: C1

**ART 112 ART OF THE EASTERN WORLD (3)**

Three hours lecture per week

Exploration of painting, architecture and crafts of India, China, Japan and Southeast Asia. An examination of artistic, cultural, and historical events explores the exchange of influences and ideas related to Eastern cultures.

GenEd: C1,C3B

**ART 201 PAINTING (3)**

Six hours laboratory per week

Prerequisite: ART 105, ART 106 and ART 107

An introduction to basic painting materials and techniques. Experiments in representational and abstract painting will explore oil, acrylic, and water-based media. Particular emphasis will be on the development of fundamental skills and the understanding of color, shape, surface and pictorial structure.

**ART 202 SCULPTURE (3)**

Six hours laboratory per week

Prerequisite: ART 105, ART 106 and ART 107

An introduction to basic sculpture materials and techniques. Experiments in representational and abstract sculpture will explore a variety of three-dimensional materials through additive and subtractive sculptural processes. Particular emphasis will be on the development of fundamental skills and the understanding of design, form and structural elements.

**ART 203 ILLUSTRATION (3)**

Six hours laboratory per week

Prerequisite: ART 105, ART 106, and ART 107

An introduction to basic materials and rendering techniques utilized in commercial illustration including a variety of media and styles exploring quash, colored pencils, pen and ink, pastels and markers. Emphasis is on the development of fundamental skills and concepts required to execute successful illustrations.

**ART 204 GRAPHIC DESIGN (3)**

Six hours laboratory per week

Prerequisite: ART 105 or ART 106 or ART 108 or consent of instructor

An introduction to basic concepts in graphic design for print and electronic media. Projects incorporating traditional and digital media explore typography, layout and visual design. Particular emphasis is on the development of fundamental skills leading to the ability to communicate ideas through the use of text and visual imagery.

**ART 205 MULTIMEDIA (3)**

Six hours laboratory per week

Prerequisite: ART 105 or ART 106 or ART107 or COMP 105 or consent of instructor

An introduction to techniques and concepts involved in the production of interactive multimedia. Projects explore basic interactive technologies utilized in the creation of digital graphics, websites and computer game designs.

**ART 206 ANIMATION (3)**

Six hours laboratory per week

Prerequisite: ART 105 or ART 106 or ART 107 or ART 108 or COMP 105 or consent of instructor

An introduction to basic techniques and processes involved in the production of animation. Projects include elements of concept and story development, character design, story boarding, timing, key framing, inbetweening, and cell production leading to the creation of short works in animation.

**ART 207 CERAMICS (3)**

Six hours laboratory per week

Prerequisite: ART 105 and ART 106

Explorations into a wide variety of ceramic ideas, techniques and materials utilized in the development of hand-building methods as applied to sculptural and vessel forms. Basic competence with the potter's wheel will also be covered. Lab fee required.

**ART 208 THE PHYSICS OF ART AND VISUAL PERCEPTION (3)**

Two hours lecture and two hours lab per week

A course on the physics of light, color, art and visual perception. The course will cover the nature of light and optical phenomena, the perception and psychology of color, the reproduction of color in different media, and the analysis of art from a science perspective.

The emphasis is on factors which permit the artist and observer to understand and more fully control the design and interpretation of images of all kinds. Demonstrations, experiments, and video/computer simulations are used to analyze signals received by the eyes or instruments.

Same as PHYS 208

GenEd: B1,C1

**ART 230 THE ART OF CREATING JOURNALISM (3)**

Three hours lecture per week

Prerequisites: ENGL 103 or ENGL 105

This course will integrate concepts from English/journalism, Education and Art. It is designed for students interested in producing print and photo journalism for local community publications. Topics will include journalistic writing styles and techniques, research strategies, interviewing methods, appropriate layout and design techniques. Projects will culminate in a product suitable for publication. No credit given toward the Art major.

GenEd: A2.

Same as LS 230, ENGL 230

**ART 310 TWO-DIMENSIONAL ART: PAINTING MEDIA AND TECHNIQUES (3)**

Six hours laboratory per week

Prerequisite: ART 108 and ART 201

Studio projects explore media and methodologies in painting, drawing and related two-dimensional art forms. Assignments emphasize the integration of traditional art materials and techniques with related digital art technologies in the creation of two-dimensional art projects.

**ART 311 THREE-DIMENSIONAL ART: SCULPTURE MEDIA AND TECHNIQUES (3)**

Six hours laboratory per week

Prerequisite: ART 108 and ART 202

Studio projects explore media and methodologies in sculpture, ceramics and other three-dimensional art forms. Assignments emphasize the integration of traditional art materials and techniques with related digital art technologies in the creation of three-dimensional art projects.

**ART 312 DIGITAL MEDIA ART: TIME-BASED IMAGING AND COMPOSITING (3)**

Six hours laboratory per week

Prerequisite: ART 108 and ART 205

Studio projects explore media and methodologies in digital imaging and non-linear compositing for time-based art, digital video and digitally generated animation. Assignments emphasize the integration of traditional art techniques with emerging digital technologies in the development of time-based digital art projects presented on video, CD ROM and DVD.

**ART 313 COMMUNICATION DESIGN TECHNOLOGY: GRAPHIC DESIGN FOR PRINT MEDIA (3)**

Six hours laboratory per week

Prerequisite: ART 108 and ART 204

Studio projects explore media and methodologies in typography and graphic design for print media. Assignments emphasize the integration of traditional design concepts with digital art technology in projects created for print and Internet applications.

**ART 314 DIGITAL MEDIA ART: DIGITAL PHOTOGRAPHY (3)**

Six hours laboratory per week

Prerequisite: ART 108

An introduction to digital photography as an art form. Investigations into photographic processes include camera techniques, lighting, color imaging, photographic composition and visual design. Digital photographic software applications, monochrome prints and digital color image manipulation will be explored as related to photographic media and traditions. Photography as a commercial medium will also be investigated.

**ART 315 ANIMATION MEDIA AND TECHNIQUES (3)**

Six hours laboratory per week

Prerequisite: ART 206

Specialized media and artistic techniques utilized in the creation of animation are incorporated in the production of projects for video, film, multimedia and the Internet. Individual and group assignments explore a range of traditional materials combined with emerging digital processes to produce completed works in animation.

**ART 316 DIGITAL ILLUSTRATION AND PAINTING (3)**

Six hours activity per week

Prerequisite: ART 108, ART 201 and ART 203

Explorations into the utilization of computer-based technology in the creation of digital illustration and painting. Techniques and processes include digital drawing and painting projects that incorporate the use of vector and raster software programs. Investigations into the various applications of digital-based artwork will also be investigated. Lab fee required.

**ART 320 TWO-DIMENSIONAL ART: PAINTING THEORY AND PROCESS (3)**

Six hours laboratory per week

Prerequisite: ART 310

Studio topics explore thematic approaches in the development of visual continuity and technical competency working in painting, drawing and related art processes. At this phase of study, projects focus on the integration of artistic concept, technique and proficiency in the use of two-dimensional media in the creation of individual works of art. Lab fee required. Repeatable for up to 6 units.

**ART 321 THREE-DIMENSIONAL ART: SCULPTURE THEORY AND PROCESS (3)**

Six hours laboratory per week

Prerequisite: ART 311

Studio topics explore theoretical approaches in the development of visual continuity and technical competency working in sculpture, ceramics and related art processes. At this phase of study, projects focus on the integration of artistic concept, technique and proficiency in the use of three-dimensional media in the creation of individual works of art. Repeatable for up to 6 units.

**ART 322 DIGITAL MEDIA ART: TIME-BASED GRAPHICS AND VISUAL EFFECTS (3)**

Six hours laboratory per week

Prerequisite: ART 312

Studio topics explore thematic projects involving visual continuity and technical competency working in digital time-based art, animated graphics and visual effects.

Projects focus on the integration of artistic concept and technological proficiency in the creation of time-based digital art presented on video, CD Rom and DVD.

Repeatable for up to 6 units.

**ART 323 COMMUNICATION DESIGN TECHNOLOGY: PACKAGING AND PRE-PRESS (3)**

Six hours laboratory per week

Prerequisite: ART 313

Studio topics explore thematic approaches in the development of visual continuity and technical competency working in graphic design, production art and product identity in preparation for mass media distribution. At this phase of study, projects focus on the integration of artistic concept and technological proficiency in the creation of design projects for print, packaging, and publishing. Repeatable for up to 6 units.

**ART 324 COMMUNICATION DESIGN TECHNOLOGY: WEB DESIGN (3)**

Six hours laboratory per week

Prerequisite: ART 204 and ART 205

Studio projects investigate artistic techniques and digital applications leading to the design and implementation of Websites. The course explores factors that affect Web layout and design, such as browser, screen resolution, navigation, connection speed, typography, graphics, and color. An introduction to basic HTML will also be covered. Repeatable for up to 6 units.

**ART 325 DIGITAL MEDIA ART: DIGITAL FILMMAKING (3)**

Six hours laboratory per week

Prerequisite: ART 312 and ART 314

Studio projects focus on filmmaking as an art form. Emerging digital technologies simulate traditional motion picture production. Assignments include aspects of producing, storyboarding, directing, cinematography, lighting, and editing in digital formats, resulting in short digital film projects presented on DVD. Repeatable for up to 6 units.

**ART 326 DIGITAL MEDIA ART: 3D COMPUTER ANIMATION (3)**

Six hours laboratory per week

Prerequisite: ART 206 and ART 312 or consent of the instructor

Studio projects explore applications of digital technologies utilized in the production of 3D Computer Animation. Assignments involve character design, wire frame modeling, texture mapping, lighting techniques, motion paths and animation techniques. Class projects result in the creation of CGI and 3D animation presented on video or DVD. Repeatable for up to 6 units.

**ART 327 COMMUNICATION DESIGN TECHNOLOGY: MULTIMEDIA THEORY AND PROCESS (3)**

Six hours laboratory per week

Prerequisite: ART 206 or ART 312 or consent of instructor

In-depth exploration of artistic techniques and visual concepts involved in the production of interactive multimedia. Projects investigate interactive technologies utilized in the design and creation of digital graphics, websites and computer games while emphasizing creative project development and artistic skills. Repeatable for up to 6 units.

**ART 328 DIGITAL MEDIA ART: PHOTOGRAPHIC THEORY AND PROCESS (3)**

Six hours laboratory per week

Prerequisite: ART 314

Artistic theories and digital imaging processes involved in photography as an art form and commercial medium are explored through in-depth projects including camera techniques, lighting, color imaging, photographic composition and visual design. Digital photographic software applications utilized in the creation of color and monochrome prints as well as custom image manipulation will be investigated. A focus on subject matter, history and trends in photographic media will also be covered. Repeatable for up to 6 units.

**ART 329 THREE-DIMENSIONAL ART: CERAMICS THEORY AND PROCESS (3)**

Six hours laboratory per week

Prerequisite: ART 207

In-depth exploration into sculptural and throwing skills, including theories and processes involved in glaze materials and specialized ceramic techniques. Functionality of gas and electric kilns in oxidation and reduction atmospheres will also be covered through individual and class projects that explore the application of ceramic technology and media as a vital and expressive art form. Repeatable for up to 6 units.

**ART 330 CRITICAL THINKING IN A VISUAL WORLD (3)**

Three hours lecture per week

A critical look at subjective responses and objective reasoning in the assessment of visual images that permeate every day aspects of contemporary life. Comparative studies evaluate the psychological impact of corporate logos, religious iconography and secular symbolism. The genesis of cultural icons is investigated from a historical perspective in relationship to their role in a global society.

GenEd: C1, Interdisciplinary



**ART 331 ART, SOCIETY, AND MASS MEDIA (3)**

Three hours lecture per week

The study of synergetic relationships between visual art and human communication dating back to the roots of civilization. Comparative studies in art and communication link ancient traditions to the development of contemporary mass media including print, photography, film, television and the Internet.

GenEd: C1,D,Interdisciplinary

Same as COMM 331

**ART 332 MULTICULTURAL ART MOVEMENTS (3)**

Three hours lecture per week

A exploration into the arts and crafts originating in African, Asian, Latin American, Middle Eastern and Native American cultures. Emphasis is on the understanding of traditions and historical contexts as well as the exploration of indigenous methods and aesthetics.

GenEd: C1,C3B,Interdisciplinary

**ART 333 HISTORY OF SOUTHERN CALIFORNIA CHICANA/O ART (3)**

Three hours lecture per week

An exploration of the Southern California Chicano/a culture focusing on the genesis, vitality and diversity represented in the painting, sculpture and artistic traditions of Mexican American artists. Historical movements, politics, cultural trends and Mexican folklore underlying the development of this dynamic style of art will be investigated within a variety of contexts.

Same as HIST 333

GenEd: C3B,D,Interdisciplinary

**ART 334 THE BUSINESS OF ART (3)**

Three hours lecture per week

Exploration into aspects of the art world business including the financial activities of art consultants, private dealers, commercial galleries, corporate art collections, public museums and international auction houses. Case studies in art marketing, gallery and museum management, contracts and commissions, as well as public image and career development will be investigated.

Same as BUS 334

GenEd: C1,D,Interdisciplinary

**ART 335 AMERICAN ETHNIC IMAGES IN NOVELS, FILM AND ART (3)**

Three hours lecture/discussion per week

Examines the portrayal of ethnic groups from an interdisciplinary perspective that includes, but is not limited to, the literary, historical, and anthropological modes of analysis. The course highlights the ways in which artistic works have shaped the intellectual landscape of the United States as they relate to ethnic peoples.

Same as ENGL 335,HIST 335

GenEd: C2,C3B,Interdisciplinary

**ART 336 ART AND MUSIC: DISSONANCE, DIVERSITY AND CONTINUITY (3)**

Three hours lecture per week

An interdisciplinary analysis of the essential elements defining modern and contemporary art and music. Discusses how artistic characteristics and music issues of the period are connected and intertwined within specific historic and cultural environments.

Same as PAMU 336

GenEd: C1,D,Interdisciplinary

**ART 337 ART ON FILM AND FILM AS ART (3)**

Three hours lecture per week

An interdisciplinary study of the relationships between film and traditional visual arts such as painting, sculpture and architecture. Comparative analyses expose the visual and conceptual modalities of expression used by film and art to create symbolic meanings and reveal complex links that exist between still and moving images within specific artistic, cultural, and historical contexts.

GenEd: C1,D,Interdisciplinary

**ART 338 PSYCHOLOGY OF ART AND ARTISTS (3)**

Three hours lecture per week

An inquiry into the mind of the artist and the psychological dynamics that underlie the creative process. Emphasis is placed on deciphering personal allegory and universal symbolism hidden within a wide range of visual and conceptual genre in painting, sculpture, film and music. The self-image of the artist will be examined from private and public point of view.

Same as PSY 338

GenEd: C1,E,Interdisciplinary

**ART 351 THE BAROQUE EYE: ART, CULTURE, MONEY AND POWER (3)**

Three hours lecture per week

An exploration of the history of visual art and culture during the Baroque through early Romantic periods from the seventeenth into the early nineteenth centuries. This course investigates the complex mixture of visual representation, ideology, global esthetics and economics in painting, sculpture, prints and the decorative arts in Europe, Asia, and the Middle East.

GenEd: C1

**ART 352 VISUAL CANONS OF THE ANCIENT WORLD (3)**

Three hours lecture per week

This course will discuss the main visual concepts developed during the ancient times. Using examples from Greek and Roman art as well as the ancient cultures of Egypt, Mesopotamia, Asia, and the Americas, this course will explore a variety of artistic paradigms developed in the early stages of human civilization.

GenEd: C1

**ART 353 MEDIEVAL WORLD: SPIRITUALITY AND REPRESENTATION (3)**

Three hours lecture per week

This course will investigate the essential visual modalities of expression and reflections developed during the medieval period. The discussions will include examples from the western as well as non-western tradition.

This course will focus its analysis on revealing the diverse representation and visual meaning of medieval spirituality in a variety of historical and geographical contexts.

GenEd: C1

**ART 383 SCENIC DESIGN (3)**

Six hours activity per week

A studio/activities course utilizing artistic techniques involved in the development of scenic design for theatrical, musical and dance productions. Script analysis, scenery sketching, drafting ground plans, elements of set construction and scenic painting will be covered in a series of studio projects.

Same as PA 383

**ART 384 COSTUME DESIGN (3)**

Six hours activity per week

A studio/activities course in which students develop costume designs through a process of character and script analysis. Period research, visual design, rendering and fabrication skills are achieved through practical exercises. Basic costume construction, including drafting and draping, result in the creation of costumes for theatrical, musical and dance productions.

Same as PA 384

**ART 420 ADVANCED ARTISTIC PROBLEMS: TWO-DIMENSIONAL ART (3)**

Six hours laboratory per week

Prerequisite: ART 320

Investigations into the development of advanced concepts, innovative processes and personal artistic style working in two-dimensional art. Students achieve increased artistic depth and advanced technical proficiency in the development of a congruent body of work in painting, drawing and mixed media. Creation of a professional portfolio presented on slides and CD ROM is a required component of the course work. Repeatable for up to 6 units.

**ART 421 ADVANCED ARTISTIC PROBLEMS: THREE-DIMENSIONAL ART (3)**

Six hours laboratory per week

Prerequisite: ART 321

Investigations into the development of advanced concepts, innovative processes and personal artistic style working in three-dimensional art. Students achieve increased artistic depth and advanced technical proficiency leading to the development of a congruent body of work in three-dimensional media. Creation of a professional portfolio presented on slides and CD ROM is a required component of the course work. Repeatable for up to 6 units.

**ART 422 ADVANCED ARTISTIC PROBLEMS: DIGITAL MEDIA ART (3)**

Six hours laboratory per week

Prerequisite: ART 322 or ART 325 or ART 326 or ART 328

Investigations into the development of advanced concepts, innovative processes and personal artistic style working in digital media art. Students achieve increased artistic depth and advanced technical proficiency leading to the development of a congruent body of work. Creation of a professional portfolio presented on Video, CD ROM or DVD is a required component of the course work. Repeatable for up to 6 units.

**ART 423 ADVANCED ARTISTIC PROBLEMS: COMMUNICATION DESIGN TECHNOLOGY (3)**

Six hours laboratory per week

Prerequisite: ART 323 or ART 324

Investigations into the development of advanced concepts, innovative processes and personal artistic style working in communication arts and design technology. Students achieve increased artistic depth and advanced technical proficiency leading to the development of a congruent body of work. Creation and presentation of a professional portfolio in print and interactive CD ROM is a required component of the course work. Repeatable for up to 6 units.

**ART 431 EUROPEAN RENAISSANCE LITERATURE AND ART (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or ENGL 105 or equivalent

Examination of the literature and art of the Renaissance of the 15th and 16th centuries in Europe and England, focusing on the re-birth of the human spirit and the legacies of the Renaissance artists and writers."

Same as ENGL 431

GenEd: C1,C2,Interdisciplinary

**ART 432 ARTS OF THE HARLEM RENAISSANCE (3)**

Three hours lecture per week

Prerequisite: Upper division standing

Study focusing on the dramatic upsurge of creativity in art, music and literature resulting from social and political undercurrents in the African American cultural revolution in New York during the 1920s. Historical geneses and subsequent artistic legacies will also be explored.

Same as ENGL 432,PAMU 432

GenEd: C1,C2,Interdisciplinary

**ART 433 WOMEN IN THE ARTS (3)**

Three hours lecture per week

An investigation into the historical roles and influences of women artists in Western and non-Western traditions. Women as subject matter in painting, sculpture, photography, film and video will also be explored as related to artistic, social, historical and political issues.

GenEd: C1,D,Interdisciplinary

**ART 434 THE MUSEUM: CULTURE, BUSINESS AND EDUCATION (3)**

Three hours lecture per week

This course is an interdisciplinary, in-depth study of a museum from the perspective of art, business, and education. Analyzes how artistic values, business and management issues and educational projects are linked within museum practices. Each term this course is offered it will focus on a specific museum in the area.

Same as BUS 434, EDUC 434

GenEd: C1,D,Interdisciplinary

**ART 435 POSTMODERN VISUAL CULTURE (3)**

Three hours lecture per week

An examination of the major visual components of postmodern culture. This course will explore a wide range of issues related to the multicultural identity of contemporary culture. Developments in the 20th and early 21st centuries such as film, digital media, and critical theory as well as traditional visual forms of expression such as painting and sculptures will be discussed.

GenEd: C1,C3B,Interdisciplinary

**ART 436 MODERN ART (3)**

Three hours lecture per week

From nineteenth century Impressionism, through twentieth century Cubism, Surrealism, Abstract Expressionism and Pop Art, this course explores the gamut of concepts, periods, trends and -isms" of the modern era (1850-1970).

GenEd: C1,Interdisciplinary

**ART 451 DIVERSITY IN THE VISUAL ARTS (3)**

Three hours lecture per week

This course will explore the meaning of diversity in the visual arts. The cross-cultural and chronological examples will address stylistic and conceptual changes within the specificity of various traditions as well as in connection with the global artistic arena.

GenEd: C1,C3B

**ART 489 ARTS SEMINAR (3)**

Three hours activity per week

Prerequisite: Senior Standing

Students interact with guest speakers, visiting artists, and industry professionals in a seminar environment. This course also affords students the opportunity to assess their training and summarize artistic achievements through group and individual projects that help prepare them for a variety of careers in the arts.

**ART 490 SPECIAL TOPICS IN ART (3)**

Three hours activity per week

Prerequisite: Art Major, Upper Division Standing

Special topics explore a variety of themes investigating the relationships of art and artists to aspects of social commentary, multiculturalism, experimental genres, commerce, first amendment rights and the role of art in a global society. Topics are presented on a rotating basis. Students are given the opportunity to experience in-depth interaction with visiting artists, industry professionals, art scholars and academicians.

**ART 492 INTERNSHIP IN THE ARTS (1-3)**

Variable hours per week

Prerequisite: Senior Standing, Art Program portfolio review, and consent of the instructor

Experiential study in a professional artistic environment appropriate to student's interests and artistic goals.

Service learning internship positions are arranged by the university, instructor or student in cooperation with local community organizations or businesses. Internship positions must meet specific criteria set by the Art program and University.

Repeatable up to 3 units maximum.

**ART 494 DIRECTED INDEPENDENT STUDY (1-3)**

Variable hours per week

Prerequisite: Senior Standing, Art Program portfolio review, and consent of the instructor

Independent art projects are created in conjunction with the supervising faculty. Completed projects are presented for critique and assessment.

**ART 499 ARTS CAPSTONE PROJECT (3)**

One hour seminar and two hours field work per week

Prerequisite: Senior Standing, portfolio review and consent of the instructor

A culminating interdisciplinary experience in which students from various Art disciplines work in groups with fellow artists, non-art majors and community members on projects specifically designed to meet a common goal. Activities supervised by sponsoring faculty are executed on campus and/or on-site in conjunction with community organizations or businesses.



## AMERICAN SIGN LANGUAGE

### ASL 101 AMERICAN SIGN LANGUAGE I (3)

Three hours of lecture per week

An introduction to American Sign Language (ASL) and the visual and expressive skills needed for basic communication in ASL including finger-spelling, vocabulary, and grammar. Appreciation for the culture and diversity of the Deaf community and the contributions of Deaf individuals to literature and the Arts.

GenEd: C3A

### ASL 102 AMERICAN SIGN LANGUAGE II (3)

Three hours of lecture per week

A continuing exploration of American Sign Language (ASL) and the visual and expressive skills needed for basic communication in ASL including finger-spelling, vocabulary, and grammar. Appreciation for the culture and diversity of the Deaf community and the contributions of Deaf individuals to literature and the Arts.

GenEd: C3A

## ASTRONOMY

### ASTR 105 INTRODUCTION TO THE SOLAR SYSTEM (4)

Three hours lecture and two hours activities per week

Descriptive introduction to the astronomical properties of the Solar System. Topics include: the historical development of astronomy, the laws that govern the behavior of the Universe, the properties of the stars and galaxies, including their origin and evolution and the Big Bang theory. Activity sessions will include computer-simulated exercises, and two field trips.

Same as PHYS 105

GenEd: B1





## BIOINFORMATICS

### **BINF 500 DNA & PROTEIN SEQUENCE ANALYSIS (3)**

Three hours lecture per week

Prerequisite: BIOL 400 or consent of the instructor

This course will introduce the computational aspects of biological inference from nucleic acid and protein sequences. Pairwise sequence comparison and multiple sequence alignment will be studied in detail. Additional topics include: RNA structure prediction, conserved sequence pattern recognition (sequence profile analysis), phylogenetic analysis algorithms, sequence data as a means to study molecular evolution, models and algorithms for genetic regulation, contig assembly, PAM and BLOSUM matrices, protein three dimensional structure prediction.

### **BINF 501 BIOLOGICAL INFORMATICS (3)**

Three hours lecture per week

Prerequisite: BIOL 431 or consent of the instructor

This course describes relational data models and database management systems with an emphasis on answering biologically important questions; teaches the theories and techniques of constructing relational databases to store various biological data, including sequences, structures, genetic linkages and maps, and signal pathways. Topics include: relational database query language SQL and the ORACLE database management system, summary of currently existing biological databases, web based programming tools, data integration and security, future directions for biological database development.

### **BINF 510 DATABASE SYSTEMS FOR BIOINFORMATICS (3)**

Three hours lecture per week

Prerequisite: BINF 501 and COMP 420, or consent of the instructor

This course is an applied, hands-on sequel to BINF 501, designed for students with interests in careers as professional programmers, analysts, designers, and managers involved in design or implementation of large bioinformatic systems. Covers concepts and methods for the design, creation, query and management of large enterprise databases, functions and characteristics of the leading database management systems. Topics include: object oriented database systems, distributed database systems, advanced database management topics, web application design and development, data warehouse systems, database mining.

### **BINF 511 COMPUTATIONAL GENOMICS (3)**

Three hours lecture per week

Prerequisite: BINF 500 or consent of the instructor

This course applies the theories and algorithms taught in BINF 500 to real-life genomic data sets, with an emphasis on practical applications, hands-on analysis,

integrated approaches and collaboration. Lecture and laboratory will explore the computational and engineering tools for analyzing genomic data. The relationships between sequence, structure, and function in complex biological networks will be studied using quantitative modeling.

### **BINF 512 ALGORITHMS FOR BIOINFORMATICS (3)**

Three hours lecture per week

Prerequisite: BINF 500 or consent of the instructor

This course will cover advanced theory in the area of biological informatics and will build on concepts introduced in BINF 500. Topics include: methods to support construction and application of combinatorial biochemical libraries, applications of algorithmic information theory, string matching, dynamic programming, prediction of three-dimensional protein structure from peptide sequence.

### **BINF 513 PROGRAMMING FOR BIOINFORMATICS (3)**

Three hours lecture per week

Prerequisite: BINF 501 and COMP 462 or equivalent, or consent of the instructor

This course will provide theory and practical training in the development of programming tools and data processing systems for use in genomic/sequence analysis. There will be a strong emphasis on the development of fully-functional web-based applications under the client/server model. Students will be required to complete a term project which will involve the development of a complete client/server application directed toward a relevant bioinformatics task.

### **BINF 514 STATISTICAL METHODS IN COMPUTATIONAL BIOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 203, MATH 151 or consent of the instructor

Techniques in statistical inference and stochastic modeling required for the interpretation and utilization of genomic data, including biological sequence alignment and analysis, sequence structure and function prediction, database searching, gene expression profiling, statistical genetics, phylogenetic inference and genetic epidemiology.

## BIOLOGY

### **BIOL 100 EXPLORING THE LIVING WORLD (4)**

Three hours lecture and three hours laboratory per week  
An overview of biology from the molecular to the ecosystem level. Topics include the origin, diversity and evolution of life, ecology of populations and communities, the structure and function of plant and animal organ systems, biological molecules, cellular structure/function, genetics and cell division. No credit given toward the major in Biology. A lab fee is required.  
GenEd: B2

### **BIOL 170 FOUNDATIONS OF LIFE SCIENCE (4)**

Three hours lecture and three hours laboratory per week  
This course meets the needs of prospective elementary school teachers. The course will cover a broad spectrum of topics including introduction to scientific inquiry with living organisms, physiology, cell biology, genetics, evolution and ecology. Current issues in biology will also be considered. The laboratories will focus on hands-on activities particularly relevant to elementary school students. No credit given toward the major in Biology. A lab fee is required.  
GenEd: B2

### **BIOL 200 PRINCIPLES OF ORGANISMAL AND POPULATION BIOLOGY (4)**

Three hours lecture and three hours laboratory per week  
An introduction to organismal biology including the diversity, comparative structure, organ system function, development, phylogeny, taxonomy and systematics of prokaryotes, protists, fungi, plants and animals. Discussion of the principles of evolution including speciation and natural selection, the environmental impact and ecosystem interaction of plants and animals, the behavior of animals, population genetics and population biology. A lab fee is required.  
GenEd: B2

### **BIOL 201 PRINCIPLES OF CELL AND MOLECULAR BIOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: CHEM 105 or CHEM 121  
This course will cover principles of basic chemistry, biological macromolecules, prokaryotic and eukaryotic cell structure and function, homeostasis, metabolism including both respiration and photosynthesis, cell division, signal transduction, Mendelian genetics, molecular genetics including transcription and translation, and a brief introduction to virology and immunology. The philosophy of science, scientific method and experimental design are foundational to the course. A lab fee is required.  
GenEd: B2

### **BIOL 203 QUANTITATIVE METHODS FOR BIOLOGY (3)**

Three hours lecture per week  
Prerequisites: A passing score on the Entry Level Mathematics Exam (ELM) or MATH 105 or equivalent.  
This course introduces students in the biological sciences to the quantitative skills and technological tools necessary to evaluate the literature and carry out original research in the discipline. Topics include the principles of biological sampling design, hypothesis generation for biological experiments, collection of observational and experimental data, statistical analysis and interpretation of biological data, and the presentation of results. Laboratories will emphasize microcomputer technology and software applications likely to be encountered in the biological sciences.  
GenEd: B3,B4

### **BIOL 210 HUMAN ANATOMY AND PHYSIOLOGY I (4)**

Three hours lecture and three hours laboratory per week.  
Study of gross and microscopic anatomy and physiology of the human body. Topics include homeostasis, cell structure/function, histology, the skeletal system, the muscular system, the digestive system and the nervous and sensory systems. A lab fee is required.

### **BIOL 211 HUMAN ANATOMY & PHYSIOLOGY II (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 210  
Study of gross and microscopic anatomy and physiology of the human body. Topics include the integumentary system, the endocrine system, the circulatory system, the immune system, the respiratory system, the urinary system and the reproductive system. A lab fee is required.

### **BIOL 212 NEUROBIOLOGY & COGNITIVE SCIENCE (3)**

Three hours lecture per week  
Prerequisite: BIOL 100 or BIOL 200 or BIOL 201  
Principles of brain organization and function underlying behavior. Topics include neuroanatomy and physiology of language, vision, sexual behavior, memory and abnormal behavior.  
Same as PSY 212  
GenEd: B2,E

### **BIOL 213 SEX, GERMS AND DISEASES (3)**

Three hours lecture/discussion per week  
This is a course to introduce biology of sexually transmitted diseases and their impact on society. It covers reproductive system, factors in the spread of diseases, biology and pathogenesis of infectious agents and sexually transmitted diseases caused by bacteria, viruses, fungi and protozoa. Topics also include impact of current biotechnology in relation to vaccine development, treatment and improved diagnostics of these diseases as well as challenges of these diseases to economy, public health system, individuals, and society at large.  
GenEd: B2,E

**BIOL 215 ANIMAL DIVERSITY (4)**

Three hours lecture and three hours laboratory per week  
This course will survey the animal kingdom emphasizing the continuity of animal life from simple to more complex body forms and life histories. The diversity of animal life is projected on a framework of basic ecological and evolutionary concepts. Human interactions with animals are explored through management and conservation issues as well as historical examples from the sciences of zoology, classification and evolution. Field trips to selected sites will allow direct examination of local animal diversity. A lab fee is required.

GenEd: B2

**BIOL 217 MEDICAL MICROBIOLOGY (4)**

Three hours of lecture and three hours of laboratory per week

Study of disease-causing microorganisms such as bacteria, viruses, fungi, protozoa and parasites, emphasizing microbial structure, genetics, physiology and pathogenesis of microorganisms. Topics also include interaction between pathogens and their hosts, animal and human diseases, diagnosis, treatment, disease prevention as well as impact of infectious diseases on psychology, society, economy and global affairs. Microbial culturing, identification, differentiation and clinical diagnostic assays will be studied in the laboratory. No credit given toward the biology major.

A lab fee is required.

GenEd: B2

**BIOL 260 NUTRITION FOR THERAPEUTICS AND HEALTH (3)**

Three hours of lecture per week.

Prerequisites: BIOL 211 and BIOL 217; Admission to clinical nursing program and instructor consent

Provides an overview of the physiological and nutritional basis of health and wellness as related to development, growth, maturation and healthy lifestyles. Focuses on the scientific role of nutrition in health promotion and disease prevention and the therapeutic role of nutrient control in disease states.

Same as NRS 260

**BIOL 300 CELL BIOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 201 with a grade of C or better and CHEM 122

Detailed study of the organization and functioning of cells and cellular organelles at the cellular and molecular levels, emphasizing experimental approaches and structural and functional relationships and their regulation and control. Topics include macromolecules, membrane phenomena, metabolism, enzyme kinetics, and cellular events associated with excitable cells and tissues. A lab fee is required.

**BIOL 301 MICROBIOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 201 with a grade of C or better and CHEM 122

Study of microorganisms of the environment, including disease-causing organisms, their structures and functions and their interactions to their host animals and the environment. A lab fee is required.

**BIOL 302 GENETICS (4)**

Three hours lecture and one hour recitation per week  
Prerequisite: BIOL 201 with a grade of C or better and CHEM 122

Principles of classical transmission genetics, population genetics, with an introduction to modern molecular genetics.

**BIOL 303 EVOLUTIONARY BIOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 200 and 201

This course will examine principles of biological evolution. Topics include evolutionary genetics, adaptation and natural selection, the fossil record, speciation and macroevolution.

**BIOL 304 COMPARATIVE ANIMAL PHYSIOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 200 and BIOL 201

This course will use a comparative approach to examine physiological principles in a variety of vertebrate and invertebrate animals. Topics include homeostasis, respiration, excretion and physiological adaptations to environmental conditions.

**BIOL 306 PATHOPHYSIOLOGY (3)**

Three hours lecture per week

Prerequisites: BIOL 210 and BIOL 211

Corequisites: Generic Student: NRS 220 and NRS 221  
Theory is exercised in corequisite courses and content linked. RN-BSN students have no corequisites.

Examines related pathophysiological disruptions to normal system functioning and the impact of these alterations on the individual throughout the life span. Provides rationale for nursing interventions for common health problems involving the integumentary, sensory, musculoskeletal, gastrointestinal, cardiovascular, endocrine, respiratory, hematological, renal/genitourinary, and neurological body systems.  
Same as NRS 306

**BIOL 310 VERTEBRATE BIOLOGY (4)**

Three hours lecture per week

Three hours laboratory per week

Prerequisite: BIOL 200

Vertebrate animals are the most visible animals in most ecosystems. Surveys the diversity of vertebrate evolution, physiology, anatomy, ecology, life history and conservation. Regional and marine vertebrates will be emphasized. Identification of common vertebrate animals, especially local forms. Field trips will be required. A lab fee is required.

**BIOL 311 PLANT BIOLOGY AND ECOLOGY (4)**

Three hours lecture and three hours laboratory per week  
A general introduction to diverse structures and functions of plants and their relationship to the environment. Identification of local native plants and plant communities, uses of native plants by Native Americans, and human and environmental impacts on native plant communities. Field trips to local sites will be taken. A lab fee is required.

**BIOL 312 MARINE BIOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 200

Overview of the complexity of marine life including marine plants and animals and the processes that underlie their distribution and abundance in open oceans, coastal regions, estuaries and wetlands. Topics included diverse interactions of organisms in the intertidal zone, over the continental shelves and in the open oceans. Field trips to local marine environments will be taken. A lab fee is required.

**BIOL 313 CONSERVATION BIOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 200

This course explores issues surrounding the conservation of biodiversity. Topics to be covered include: species-, population-, and ecosystem-level issues, biodiversity, extinction, sustained yield, exotic species, and reserve design. Management implications and the ecology of issues are integrated throughout the course. Lab fee required.

Same as ESRM 313

**BIOL 315 INTRODUCTION TO BIOPHYSICS (4)**

Three hours lecture and two hours activity per week  
Prerequisite: PHYS 200

Co-requisite: BIOL 300

This course applies physical methods to the study of biological systems, including transport processes and membrane phenomena, bioelectric phenomena, photosynthetic systems and visual systems. Biophysical methods will include the techniques of patch clamping and optical tweezers, and the measurement of action potentials and evoked responses. There will be an emphasis on modeling and on problem solving, with appropriate mathematics when necessary. The practical activity session will include computer modeling and simulation, and laboratory demonstrations and exercises. Same as PHYS 315

**BIOL 316 INVERTEBRATE ZOOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 200

This course will survey invertebrates from simple, single-celled protists to the most complex of invertebrate animals. Over ninety-five percent of the animals on earth are invertebrates -- animals without backbones. Aspects of the ecology, physiology and evolutionary history of this diverse array of animals will be examined. Human interactions with invertebrates and conservation issues will also be highlighted. Field trips will be required. A lab fee is required.

**BIOL 317 PARASITOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 200

This course surveys the diversity of parasitic animals and protists. The parasitic life mode is found in a broad range of animal and protistan phyla, as well as some plant groups. Parasite-host relationships are often tightly co-evolved. Parasites have remarkable and complex adaptations to allow survival and successful reproduction and dispersal. Topics examined will include evolution and life histories of representative parasites, along with medical and epidemiological factors of those that affect humans or domestic animals. A lab fee is required.

**BIOL 326 SCIENTIFIC & PROFESSIONAL ETHICS (3)**

Three hours lecture per week

Discussion of ethical issues and societal challenges derived from scientific research and professional activities. Examines the sources, fundamental principles, and applications of ethical behavior; the relationship between personal ethics and social responsibility of organizations; and the stakeholder management concept. Applies ethical principles to different types of organizations: business, non-profits, government, health care, science/technology, and other professional groups. Topics also include integrity of scientific research and literature and responsibilities of scientists to society, intellectual property, ethical practices in professional fields, ethical dilemmas in using animal or human subjects in experimentation, gene cloning, animal cloning, gene manipulation, genetic engineering, genetic counseling, and ethical issues of applying biotechnology in agricultural fields.

Same as MGT 326

GenEd: D

**BIOL 331 BIOTECHNOLOGY IN THE TWENTY-FIRST CENTURY (3)**

Three hours lecture per week

Presentation of recent advances in biotechnology and discussion of societal implications. Topics include the processes and methods used to manipulate living organisms, or the substances and products from them, for use in medicine, agriculture, food production, gene therapy, forensics and warfare. The social, ethical and political issues raised by modern biotechnology will be discussed. No credit given toward the biology major.

Same as BUS 331

GenEd: B2,D,Interdisciplinary



**BIOL 332 CANCER AND SOCIETY (3)**

Three hours lecture per week

The underlying molecular causes of cancer, the impact of environmental and genetic factors on cancer causation and prevention, recent advances in diagnosis and treatment of the disease, and the impact that this disease, which will affect one in three adults, has on society. No credit given toward the biology major.

GenEd: B2,D,Interdisciplinary

**BIOL 333 EMERGING PUBLIC HEALTH ISSUES (3)**

Three hours lecture per week

Discussion of emerging infectious diseases and other health related issues with global concerns such as AIDS, tuberculosis, sexually transmitted diseases, cardiovascular diseases, animal and bird diseases which may be transmitted to people, food and blood safety issues, environmental public health hazards, immigration and public health issues, potential biological weapons and their impact on human and animal populations in the world and the ecosystem.

GenEd: B2,E,Interdisciplinary

**BIOL 334 NATURAL HISTORY OF VENTURA COUNTY (3)**

Two hours lecture and three hours laboratory per week

This course will explore the biota and ecosystems of Ventura County. Local ecosystems include chaparral, marine, stream, desert, mountain and island.

Topics covered will be classification and diversity of conspicuous regional flora and fauna in the field and laboratory, basic ecological and evolutionary principles of botanical and zoological classification, ecosystem diversity and function. Indigenous cultural and colonial era use of biotic resources, history of scientific exploration of the region, conservation and preservation issues, restoration of natural habitats, adaptation, life history and physiology of resident organisms will also be covered. Field trips will be required.

GenEd: B2,Interdisciplinary

**BIOL 335 THE BIOSPHERE (3)**

Three hours of lecture per week

The biosphere, the region of the planet where life exists, extends up into the atmosphere as well as down into the deepest ocean trenches. This course will examine the origin, workings, and human influence on earth's biosphere. Topics include evolution of life on earth, atmosphere and climate changes, earth's resources and human impacts.

GenEd: B2,Interdisciplinary

**BIOL 342 THE ZOO: CONSERVATION, EDUCATION AND RECREATION (3)**

Three hours lecture per week

An interdisciplinary study of zoos and zoological gardens from scientific, managerial, business, recreational and educational perspectives. Analyzes how these perspectives are linked within zoo practices. The course will include an in-depth case study of a local zoo. Field trips to local zoos will be required.

Same as BUS 342,ECON 342,EDUC 342

GenEd: D,Interdisciplinary

**BIOL 345 SCIENCE AND PUBLIC POLICY (3)**

Three hours lecture per week

Examines the relationship between science, politics, and public policy and prepares students to make informed decisions concerning the societal implications of many rapidly advancing avenues of scientific research.

Same as POLS 345

GenEd: D,Interdisciplinary

**BIOL 400 MOLECULAR BIOLOGY (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: BIOL 300 or BIOL 302 with a grade of C or better

Study of informational macromolecules and how they direct molecular processes in both eukaryotic and prokaryotic cells. Topics include structure, function and regulation of the genetic material at the molecular level, gene organization, structures and functions of DNA, RNA and proteins, gene transcription and expression, RNA processing, genomics and proteomics. A lab fee is required.

**BIOL 401 BIOTECHNOLOGY AND RECOMBINANT DNA TECHNIQUES (5)**

Three hours lecture and six hours laboratory per week

Prerequisite: BIOL 400 with a grade of C or better

Theory and application of molecular biotechnology to problems in medicine, agriculture, forensics, and the environment. This is a laboratory-intensive course emphasizing technical skills in DNA and RNA manipulation, trouble-shooting, experimental design, and data interpretation. Lab fee required.

**BIOL 402 TOXICOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 201 with a grade of C or better and CHEM 122

An in depth study of toxic chemicals and their interactions within the ecosystems. Topics include the origin, fate, chemical and biological detection, and quantification of pollutants and toxins and their impact on organisms at the molecular, biochemical, cellular, physiological, organismal, and community levels of organization. Basic toxicology, genetic toxicology, environmental mutagenesis and the molecular basis of mutation induction will be covered.

**BIOL 403 FOUNDATIONS OF STRUCTURAL BIOLOGY (4)**

Three hours lecture and three hours lab per week

Prerequisite: BIOL 300

Study of structure and function of biological macromolecules. Topics include basic structures and properties of macromolecules in biological systems, molecular evolution, conformational changes of macromolecules and their biological implications and techniques used to determine molecular structure of biological macromolecules. Special emphasis will be placed on the role of structural biology in the design and understanding of both biological and chemical pharmaceuticals. A lab fee is required.

**BIOL 404 PLANT AND ANIMAL TISSUE CULTURE (3)**

Two hours lecture and three hours lab per week  
Introductory course in the theory and concepts of animal and plant cell and tissue culturing including the fundamentals of tissue culture techniques, subculturing and maintenance of cell lines and stem cell technology. A lab fee is required.

**BIOL 405 BIOCHEMICAL ENGINEERING (4)**

Three hours lecture and three hours lab per week

Prerequisite: CHEM 318

Emphasizes quantitative engineering aspects of biology including the microbial synthesis of commercial products, environmental biotechnology, and the manufacture of biopharmaceuticals through recombinant microorganisms, transgenic animals, and plants. Consideration will be given to protein isolation and purification, microbial kinetics and energetics, enzyme kinetics, and operation of bioreactors. A lab fee is required.

**BIOL 406 EVOLUTIONARY BIOGEOGRAPHY (3)**

Three hours lecture per week

Prerequisites: BIOL 303

Examines the spatial and temporal distribution of plant and animal groups with emphasis on historical, environmental and biological processes governing current patterns of species and habitat geography. Integrates theory and analytical tools from geology, paleontology, ecology, evolution and genetics to study the effects of global change on biodiversity.

**BIOL 407 BEHAVIORAL ECOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 200

Examination of the evolutionary and ecological basis for animal behavior. Topics include: cooperative and competitive interactions, mating systems, reproductive behavior and eusociality .

**BIOL 408 NANOBIOTECHNOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 400

This course presents the basis of foundation for understanding how macromolecules combine to form the structural and functional units of the intact cell.

**BIOL 416 RADIOBIOLOGY AND RADIONUCLIDES (3)**

Three hours lecture per week

Prerequisite: BIOL 300 and PHYS 201

Topics include: nature and effects of ionizing radiation on biomolecular structures and living cells; applied radiobiology and radionuclides; genetic effects of ionizing radiation and methods of protection and dosimetry.

Same as PHYS 416

**BIOL 420 CELLULAR AND MOLECULAR IMMUNOLOGY (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: BIOL 300 with a grade of C or better and CHEM 122

Study of cellular and molecular aspects of the immune system and its responses against infectious agents and/or environmental insults. Included are development of the organs and cells of the immune system, genetics of the molecules of the immune system and their functions and interactions during an immune response, immunological disorders such as immunodeficiencies, autoimmune diseases, transplantation, and contemporary immunological techniques used in clinical diagnosis and other modern research and development applications. A lab fee is required.

**BIOL 421 VIROLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 301 with a grade of C or better and CHEM 122

Study of aspects of molecular structure, genetics, and replication of viruses and other sub-viral agents such as prions and viroids, virus-host interactions, pathogenesis of viral infections, diagnostic virology, and antiviral vaccines and drugs; emphasis on human pathogens.

**BIOL 422 MOLECULAR PLANT PHYSIOLOGY (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: BIOL 300 with a grade of C or better

Study of principles and methods of plant physiology at the molecular level combined with modern plant technology. Topics include plant tissue and cell culture, genetic engineering and transformation, plant defense, genomics and applications of DNA technology. A lab fee is required.

**BIOL 423 CELLULAR AND MOLECULAR NEUROBIOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 300 with a grade of C or better and CHEM 122

Study of the nervous system at cellular and molecular levels including cellular structure of neurons and their function and interactions, neurotransmitters and their function and regulation, chemical agents and their effects on neuronal cells and normal responses by the cells and the molecules of the nervous system and their responses under adverse conditions.

**BIOL 424 HUMAN PHYSIOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 300 with a grade of C or better and CHEM 122

Study of human physiology at both the cellular and organ system levels including neurophysiology, muscle physiology, cardiovascular physiology, respiration, kidney function, hormone function and reproduction.

**BIOL 425 HUMAN GENETICS (3)**

Three hours lecture per week

Prerequisite: BIOL 300 and BIOL 302 with grades of C or better and CHEM 122

Basic principles of human inheritance, including the transmission of genetic traits, chromosomal abnormalities and their effects, gene structure and function, pedigree analysis, gene mapping, cytogenetics, mutations and mutagenic agents, cancer genetics, molecular analysis of inherited diseases and genetically controlled phenomena in humans.

**BIOL 427 DEVELOPMENTAL BIOLOGY (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: BIOL 300 with a grade of C or better and CHEM 122

This course will use descriptive, experimental and comparative approaches in the study of animal development. Developmental stages including gametogenesis, fertilization, cleavage, gastrulation and organogenesis will be discussed in a variety of animal phyla. The molecular and cellular mechanisms underlying morphogenesis and the evolutionary conservation of developmental mechanisms in various animal phyla will be examined. A lab fee is required.

**BIOL 428 BIOLOGY OF CANCER (3)**

Three hours lecture per week

Prerequisite: BIOL 300 with a grade of C or better and CHEM 122

Principles of oncology are examined. Included are mechanisms of oncogenesis at cellular and molecular levels, characteristics of cancer, advantages and disadvantages of various therapies of cancer treatment.

**BIOL 431 BIOINFORMATICS (4)**

Four hours lecture in the lab per week

Prerequisite: BIOL 302 with a grade of C or better

Navigation and manipulation of biological databases. Topics include: multiple sequence alignment, phylogeny estimation, gene expression profiling, protein structure prediction, and functional genomics. Lab fee is required. GenEd: B2,B4,Interdisciplinary

**BIOL 432 PRINCIPLES OF EPIDEMIOLOGY AND ENVIRONMENTAL HEALTH (3)**

Three hours lecture per week

Prerequisite: BIOL 201 with a grade of C or better and CHEM 122. For Nursing majors and Pre-Nursing students, CHEM 110 and BIOL 217 may substitute for CHEM 122 and BIOL 201.

Distribution and dynamics of human health problems and principles and procedures used to determine circumstances under which disease occurs or health prevails and to aid in managing and planning health and environmental systems. The broadened scope of epidemiology is examined through case studies and community and environmental health approach.

GenEd: B2,D,Interdisciplinary

**BIOL 433 ECOLOGY AND THE ENVIRONMENT (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: BIOL 200

Ecological characteristics of natural ecosystems and basic effects of human society upon those systems. Plant and animal distribution patterns in relation to past and present physical and biotic factors. Issues of resource management, population, food production, global environmental problems will also be emphasized to explore future directions. Field trips to local ecosystems will be taken. A lab fee is required.

GenEd: B2,Interdisciplinary

**BIOL 434 INTRODUCTION TO BIOMEDICAL IMAGING (4)**

Three hours lecture and two hours lab activity per week

Prerequisite: BIOL 210 or PHYS 200

The course will present an overview of biomedical images and imaging systems. The fundamental concepts used in several imaging modalities (such as projection radiography, mammography, DEXA, computed tomography, ultrasonography and magnetic resonance imaging) will be examined: the emphasis will be on an intuitive and descriptive presentation of the main components of these systems. Image formation and reconstruction will be addressed. The resulting clinical images will be correlated with the underlying structure and function of the organs, and the diagnostic utility and limitations of the images will be considered.

Same as PHYS 434,HLTH 434

GenEd: B1,E,Interdisciplinary

**BIOL 450 ICHTHYOLOGY: THE BIOLOGY OF FISHES (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: BIOL 200

This course will survey the diversity of living and fossil fishes. Fishes are the largest and most diverse group of vertebrate animals. Aspects of the ecology, physiology and evolutionary history of these animals will be examined. Extensive human interactions with fishes and particularly conservation issues will be highlighted. Emphasis will be placed on the identification and biology of California coastal and inland species. Field trips will be required. A lab fee is required.

**BIOL 451 ORNITHOLOGY (4)**

Three hours lecture and three hours lab per week

Prerequisites: BIOL 200, BIOL 201

Introduces the evolution, diversification, anatomy, physiology, classification, ecology, behavior, conservation and special adaptations of birds in the world. It requires study and identification in the field and laboratory. A lab fee is required.

**BIOL 464 MEDICAL INSTRUMENTATION (4)**

Three hours lecture and two hours lab activity per week

Prerequisite: PHYS/BIOL/HLTH 434

The detection, acquisition, processing and display of diagnostic clinical images. The course will concentrate on the fundamentals of the design of the instruments and the use of appropriate reconstruction algorithms in (computed) radiography, (digital) fluoroscopy, computed tomography, ultrasound, magnetic resonance imaging and radionuclide imaging. Activities will include image reconstruction examples, investigation of recent innovations, and two trips to local Radiology departments.

Same as PHYS 464

**BIOL 490 SPECIAL TOPICS (1-3)**

Three hours seminar per week

Prerequisite: consent of the instructor

In-depth analysis of current topics in biology. Topics vary each semester. Repeatable by topic.

**BIOL 491 SPECIAL LABORATORY TOPICS (1-3)**

Prerequisite: BIOL 300 with a grade of C or better and CHEM 122

Laboratory study of a selected topic, the title of which is to be specified in advance. Repeatable by topic. A lab fee is required.

**BIOL 492 INTERNSHIP (2-3)**

Prerequisite: Consent of the instructor and program approval

Supervised work and study in work situations involving biological research and technical skills. May involve service learning. All students are required to attend the Biology Program Senior Capstone Colloquium to present their projects.

Graded Credit/No Credit

**BIOL 493 SERVICE LEARNING AT THE ZOO (1-3)**

One to three hours activity per week

Prerequisites: BIOL/BUS/ECON/EDUC 342 and Consent of Instructor

Working with a local zoo, individuals or teams of students will engage in service learning projects. Students will apply skills and competencies acquired in their academic programs to issues and challenges facing modern zoos.

Student Option: Graded or CR/NCR

Same as UNIV 493, BUS 493, ECON 493, EDUC 493

**BIOL 494 INDEPENDENT RESEARCH (1-3)**

Prerequisite: Consent of the instructor and program approval

Laboratory and/or library research that may involve service learning in selected areas of biology conducted under the direction of a faculty member. All students are required to attend the Biology Program Senior Capstone Colloquium to present their projects.

Graded Credit/No Credit

**BIOL 497 DIRECTED STUDY (1-3)**

Prerequisite: Consent of the instructor and program approval

Reading and library research that may involve service learning in selected areas of biology conducted under the direction of a faculty member. All students are required to attend the Biology Program Senior Capstone Colloquium to present their projects.

Graded Credit/No Credit

**BIOL 499 SENIOR CAPSTONE IN BIOLOGY (3)**

Three hours lecture per week

Prerequisite: Consent of Instructor

Integration of previous coursework, knowledge and skills as they apply to specific topics in Biology and the impact of biological science on society. Emphasis will be placed on analysis of scientific literature, problem solving and oral and written communication skills.

**BIOL 502 TECHNIQUES IN GENOMICS/PROTEOMICS (2)**

Six hours laboratory per week

Prerequisite: BIOL 401 or consent of the instructor

This laboratory course introduces students to the current techniques and methodologies in the fields of comparative and functional genomics and proteomics. Topics and techniques covered include genome sequencing, micorarrays, mutagenesis, transgenic plants and animals, single nucleotide polymorphism (SNP) discovery and analysis. Students will gain hands-on lab bench experience and will make on-site visits to high volume regional biotechnology facilities.

**BIOL 503 BIOTECHNOLOGY LAW & REGULATION (3)**

Three hours lecture per week

Individual and organizational responsibility in R&D and commercial aspects of biotechnology. Topics include: intellectual property, privacy, government and industrial regulation, liability, ethics, and policy responses to societal concerns in the U.S. and abroad. Case studies involving gene therapy, cloning, and biomaterials in the medical and health sector, and farming and crop modification in the agricultural sector will be explored in detail.

**BIOL 504 MOLECULAR CELL BIOLOGY (3)**

Three hours lecture per week

Prerequisite: BIOL 300 or consent of the instructor

This course will examine molecular and mechanistic aspects of cell biology. Topics include: cell biochemistry and biosynthesis, cell signaling, regulation of the cell cycle and membrane trafficking.

**BIOL 505 MOLECULAR STRUCTURE (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: BIOL 400 or consent of the instructor

This course will examine the structural biology of proteins. Topics include general principles of protein structure, the biochemical function of proteins, the relationship of protein structure to its function and experimental approaches to determining and predicting protein structure and function.



**BIOL 506 MOLECULAR EVOLUTION (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 400 or BIOL 401 or consent of the instructor

This course will examine evolutionary change at the molecular level. Topics include: The driving forces behind the evolutionary process, the effects of the various molecular mechanisms on the structure of genes, proteins, and genomes, the methodology for dealing with molecular data from an evolutionary perspective and the logic of molecular hypothesis testing.

**BIOL 507 PHARMACOGENOMICS AND PHARMACOPROTEOMICS (3)**

Three hours lecture per week  
Prerequisite: BINF 500, BIOL 504 or consent of the instructor

Structural and functional genomics with an emphasis on how these fields operate in drug discovery and optimization. Topics include: genetics of the human response to prophylactic and therapeutic agent, impact of genetic variation on therapeutic efficacy, disease mechanisms, proteomics of genetic and communicable disease, drug action and toxicity, structure encoding, lead discovery and optimization, parallel synthesis, screening virtual libraries.

**BIOL 508 ADVANCED IMMUNOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 300 or consent of the instructor

This course will examine cellular and molecular aspects of the immune system. Topics include: molecular genetics and molecular structure of immunoglobulin, T cell receptor, and the MHC antigens; the functions and dysfunctions of the components of the immune system; applications of immunological technologies in modern scientific research and development.

**BIOL 509 PLANT BIOTECHNOLOGY (4)**

Three hours lecture and three hours laboratory per week  
Prerequisite: BIOL 400 and BIOL 422 or consent of the instructor

This course will examine the scientific and technical advances which underlie the production of genetically modified crops. Topics include: plant genome organization and gene expression, plant tissue culture and genetic transformation, genetic manipulation to confer resistance to herbicides, pests and disease and strategies for engineering stress tolerance and the improvement of crop yield and quality.

**BIOL 510 TISSUE CULTURE TECHNIQUES AND STEM CELL TECHNOLOGY (3)**

One hour lecture and six hours lab per week  
Prerequisite: BIOL 300

Examines theory and concepts of animal and plant cell and tissue culturing. Focuses on stem cell technology including types of stem cells, ethics of stem cells, pluripotency, culture methods, characterization, monitoring tools such as imaging and differentiation strategies. Lab fee required.

**BIOL 600 TEAM PROJECT (4)**

Four hours activity per week  
Prerequisite: Program approval

In this course, students will work individually and in teams to analyze, research, discuss and report on subjects relevant to the biotechnology industry.

**BIOL 601 SEMINAR IN BIOTECHNOLOGY AND BIOINFORMATICS (1)**

One hour seminar per week  
Discussion of up-to-date research and development findings with guest speakers, visiting scientists and industry professionals.

**BIOL 610 CAPSTONE PROJECT FOR MS/MBA DUAL DEGREE (6)**

Six hours seminar per week  
Prerequisite: Biology or Business and Economics Program Approval  
Culminating experience in the MS/MBA dual degree program. Students participate in lectures, discussions, case analysis and independent research. Includes a major project involving research, analysis, synthesis and presentation of a topic related to the global biotechnology industry.  
Same as BUS 610



## BUSINESS

### **BUS 110 BUSINESS LAW (3)**

Three hours lecture per week

Introduction to the legal and regulatory environment of business, emphasizing the USA legal system. Topics include contracts, personal property, litigation, antitrust, labor agreements, discrimination, environmental protection and international trade and law.

### **BUS 320 BUSINESS OPERATIONS (3)**

Three hours lecture per week

Prerequisite: MATH 140 or MATH 150

Exploration and application of quantitative techniques, systems analysis and operations analysis of business functions, with an emphasis on the optimization of process and operational efficiencies. A variety of management science methodologies will be applied to theoretical and real-world situations.

### **BUS 331 BIOTECHNOLOGY IN THE TWENTY-FIRST CENTURY (3)**

Three hours lecture per week

Presentation of recent advances in biotechnology and discussion of societal implications. Topics include the processes and methods used to manipulate living organisms, or the substances and products from them, for use in medicine, agriculture, food production, gene therapy, forensics and warfare. The social, ethical and political issues raised by modern biotechnology will be discussed. No credit given toward the biology major.

Same as BIOL 331

GenEd: B2,D,Interdisciplinary

### **BUS 334 THE BUSINESS OF ART (3)**

Three hours lecture per week

Exploration into aspects of the art world business including the financial activities of art consultants, private dealers, commercial galleries, corporate art collections, public museums and international auction houses. Case studies in art marketing, gallery and museum management, contracts and commissions, as well as public image and career development will be investigated.

Same as ART 334

GenEd: C1,D,Interdisciplinary

### **BUS 335 BUSINESS & THE PERFORMING ARTS (3)**

Three hours lecture per week

Exploration of the business elements in the performing arts, including planning, management and financial activities. Uses an interdisciplinary approach to focus on performing arts as a creative activity and as a business activity. Uses case studies to analyze a comprehensive view of performing arts organizations.

Same as PA 335

GenEd: Interdisciplinary

### **BUS 340 BUSINESS AND ECONOMICS IN AMERICAN LITERATURE (3)**

Three hours lecture/discussion per week

Explores the ways in which business and economics have been represented in American literature. Employs critical methodologies from the fields of Business, Economics, and Literary studies.

Same as ECON 340, ENGL 340

GenEd: C2,D,Interdisciplinary

### **BUS 341 DRUG DISCOVERY & DEVELOPMENT (3)**

Three hours lecture per week

How are drugs discovered? What determines the price for a drug? What is the difference between a generic and non-generic drug? These questions will be examined with an interdisciplinary approach. Topics include the isolation of compounds from natural sources, the screening of compounds for biological activity, structure-activity relationships of drugs, computer-assisted drug design, combinatorial chemistry, bioinformatics, the FDA approval process for new drugs, and the economic and business aspects of pharmaceutical investment and development.

Same as ECON 341, CHEM 341

GenEd: B1,D,Interdisciplinary

### **BUS 342 THE ZOO: CONSERVATION, EDUCATION AND RECREATION (3)**

Three hours lecture per week

An interdisciplinary study of zoos and zoological gardens from scientific, managerial, business, recreational and educational perspectives. Analyzes how these perspectives are linked within zoo practices. The course will include an in-depth case study of a local zoo. Field trips to local zoos will be required.

Same as BIOL 342, ECON 342, EDUC 342

GenEd: D,Interdisciplinary

### **BUS 344 THE LIBRARY: COLLECTIONS, SERVICES & INSTRUCTION (3)**

Two hours lecture per week

Two hours activity per week

A study of university, school (K-12), public, and special libraries from business, economic, library science, and educational perspectives. Analyzes how these perspectives are linked within library practices. The course will include study of local libraries. The course will include field trips to local libraries.

Same as ECON 344, EDUC 344, LIB 344

GenEd: D,Interdisciplinary

**BUS 349 HISTORY OF BUSINESS AND ECONOMICS IN NORTH AMERICA (3)**

Three hours of lecture per week

Examines the growth and development of the economies of North America since colonial times. Addresses social, ethical, economic and management issues during the development of Canada, the United States, and Mexico. Analyzes the business principles underlying the growth and development of the economies.

Same as ECON 349, HIST 349

GenEd: D, Interdisciplinary

**BUS 420 CASES IN STRATEGY (3)**

Three hours seminar/discussion per week

Prerequisite: Senior standing or consent of the instructor

A case study seminar that integrates functional areas of business into the development and analysis of strategy and strategic planning. Emphasizes practical strategic solutions that could reasonably lead to success in the marketplace. Topics include: Competitive Analysis, Value Chain Analysis, Globalization Strategies and Strategies for Chaotic Environments.

Topics include: Competitive Analysis, Value Chain Analysis, Globalization Strategies and Strategies for Chaotic Environments.

**BUS 424 BUSINESS, GOVERNMENT, & SOCIETY (3)**

Three hours lecture per week

Prerequisite: MGT 307

Discussions of the history and interactions of American business, government, and society. Topics include the history of business power, social responsibility and ethical theories, governmental regulation, managing environmental quality, and consumerism.

GenEd: D

**BUS 434 THE MUSEUM: CULTURE, BUSINESS AND EDUCATION (3)**

Three hours lecture per week

This course is an interdisciplinary, in-depth study of a museum from the perspective of art, business, and education. Analyzes how artistic values, business and management issues and educational projects are linked within museum practices. Each term this course is offered it will focus on a specific museum in the area.

Same as ART 434, EDUC 434

GenEd: C1, D, Interdisciplinary

**BUS 448 GLOBALIZATION AND DEVELOPMENT (3)**

Three hours lecture per week

Prerequisite: SOC 100

Examines empirical and theoretical issues of globalization from a sociological perspective, to understanding how the forces of globalization affect economic, political and cultural systems of both developed and developing nations.

Same as SOC 448, ECON 448

GenEd: D, Interdisciplinary

**BUS 493 SERVICE LEARNING AT THE ZOO (1-3)**

One to three hours activity per week

Prerequisites: BIOL/BUS/ECON/EDUC 342 and

Consent of Instructor

Working with a local zoo, individuals or teams of students will engage in service learning projects. Students will apply skills and competencies acquired in their academic programs to issues and challenges facing modern zoos.

Student Option: Graded or CR/NCR

Same as UNIV 493, BIOL 493, ECON 493, EDUC 493

**BUS 499 CAPSTONE (3)**

Three hours lecture per week

Prerequisite: All Lower Division (24 units) and other Upper Division (33 units) required courses in the Business Major or consent of instructor

An integration of all prior business core subject matter via two major components: 1) Teams of students participate in a PC-based simulation of an ongoing (fictitious) international business. Requires decision-making under uncertainty but within strict deadlines, competitor analysis, and formal oral/written reporting of results. 2) Individually and in teams, students analyze, research, discuss and report on complex written business cases - which provides interdisciplinary exposure.

**BUS 500 ECONOMICS FOR MANAGERS (3)**

Three hours lecture per week

A course in economics for MBA students covering material from both microeconomics and macroeconomics. Topics include market structure, demand analysis, consumer behavior, nature of the firm, measuring economic activity, inflation, unemployment, money and banking, and the role of the government. May be offered with an extensive online component.

**BUS 502 QUANTITATIVE METHODS FOR DECISION-MAKING (3)**

Three hours lecture per week

Overview of core quantitative skills for effective managerial decision-making. Topics include statistical principles, regression analysis, forecasting, multi-attribute decision-making, benefit-cost analysis, and spreadsheet modeling of businesses cases. May be offered with an extensive online component.

**BUS 504 INTRODUCTION TO ACCOUNTING AND FINANCE (4)**

Four hours lecture per week

Presents an overview of the role of accounting and finance in business. The first part of the course focuses on accounting as the language of business. Topics include basic assumptions and principles of accounting, the content and purpose of financial statements, and uses and limitations of the financial statements. The second part of the course focuses on the role of finance in supporting the functional areas of a business. Topics include time value of money, risk, and capital structure. May be offered with an extensive online component.

**BUS 506 PRINCIPLES OF MANAGEMENT AND MARKETING (3)**

Three hours lecture per week

Presents an overview of the disciplines of management and marketing. Explains the basic elements of good management practices. Describes the key aspects of effective marketing. Combines management and marketing disciplines through cases, role-play simulations, and computer based simulations that are used to model managers' planning and decision-making processes. May be offered with an extensive online component.

**BUS 508 BUSINESS ETHICS AND LAW (3)**

Three hour seminar per week

An overview of the ethical environment for business operations, with a special emphasis on the legal environment. Explores decision-making frameworks for managers in addressing ethical and legal issues that confront modern business organizations. May be offered with an extensive online component.

**BUS 510 HIGH PERFORMANCE MANAGEMENT (3)**

Three hours seminar per week

Co-requisite: BUS 520

Develops the managerial skills that affect individual and group performance in organizations. Topics include managerial communication, team-building, negotiation, conflict resolution, and intercultural management.

**BUS 520 STRATEGY AND LEADERSHIP (3)**

Three hours seminar per week

Co-requisite: BUS 510

An integrated overview of strategy, strategic planning and strategic management for business leaders. Through the use of complex business cases, the course analyzes the major elements of strategic management and the interactions among major participants. Special emphasis is given to the role of leadership in the strategic management process.

**BUS 521 SPECIAL TOPICS IN MANAGEMENT (3)**

Three hours seminar per week

Prerequisite: Consent of Instructor

In-depth analysis of current topics in management. Topics vary each semester. Repeatable by topic.

**BUS 530 MANAGING BUSINESS OPERATIONS (3)**

Three hours seminar per week

Prerequisite: BUS 520

Co-requisite: BUS 540

Building on previous business courses this course develops skills required for managers to operate a business organization. Topics include change management, product design, process selection, quality management, supply chain design, strategy and control. Managing a firm's business operations involves the design, operation and improvement of systems that create and deliver an organization's product and services to customers.

**BUS 540 FINANCIAL REPORTING & ANALYSIS (3)**

Three hours seminar per week

Prerequisite: BUS 520

Co-requisite: BUS 530

Provides an understanding of the use of financial information in managing an organization. The course focuses on analyzing and interpreting financial statements, applying analytical tools and techniques to financial statements in order to make sound investment and operating decisions, and applying standard corporate funding models in corporate financial management.

**BUS 541 SPECIAL TOPICS IN FINANCE (3)**

Three hours lecture per week

Prerequisite: Consent of Instructor

In-depth analysis of current topics in finance. Topics vary each semester. Repeatable by topic.

**BUS 550 THE CONTEMPORARY FIRM (3)**

Three hours seminar per week

Prerequisite: BUS 540

This course emphasizes the strategic and management issues associated with the effective use of information technology. Topics include information systems & control, databases and data mining, systems development, IT infrastructure and strategy.

**BUS 560 THE ENTREPRENEURIAL MANAGER (3)**

Three hours seminar per week

Prerequisite: BUS 540

A course that focuses on aspects of starting a new business, with an emphasis on recognizing and creating opportunities. Also develops the managerial skills and perspectives that contribute to innovative and entrepreneurial management in growing and established organizations. Topics include attributes of entrepreneurs and entrepreneurial careers, evaluating opportunities, writing business plans, consumer and market analysis, new product design and development, creativity, innovation, forecasting, resource requirements, financing, and managing new ventures.

**BUS 570 COMPETING IN A GLOBAL ENVIRONMENT (6)**

Three hours seminar and six hours activity per week

Prerequisite: Completion of all other MBA Core courses

Acknowledging the global environment in which business operates, this course addresses management concerns for maximum organizational effectiveness in international business. Topics include international market identification, trade practices and policy, legal issues in business, international currency markets, joint ventures, international business strategy, and global management. Intercultural management issues, negotiation, and cross-cultural differences will also be addressed.



**BUS 572 GRADUATE INTERNATIONAL EXPERIENCE IN BUSINESS (3)**

Three hours lecture per week

Analysis of international business environments, including site visits to appropriate locations.

**BUS 610 CAPSTONE PROJECT FOR MS/MBA DUAL DEGREE (6)**

Six hours seminar per week

Prerequisite: Biology or Business and Economics Program Approval

Culminating experience in the MS/MBA dual degree program. Students participate in lectures, discussions, case analysis and independent research. Includes a major project involving research, analysis, synthesis and presentation of a topic related to the global biotechnology industry.

Same as BIOL 610

**CHEMISTRY****CHEM 100 CHEMISTRY AND SOCIETY (4)**

Three hours lecture and three hours laboratory per week  
An introduction to the basic principles of chemistry and a consideration of the benefits and problems arising from applications of chemistry. Discussions of foods and food additives, drugs, plastics and other materials of everyday life, fuel sources, the atmosphere, and fresh water. Lab fee required.

GenEd: B1

**CHEM 105 INTRODUCTION TO CHEMISTRY (3)**

Three hours lecture per week

Prerequisite: A passing score on the Entry Level Mathematics (ELM) Examination

Introduces the basic principles and concepts in Chemistry. Topics covered include: measurements, units and unit conversion, scientific notation, stoichiometry, atomic structure, the concept of the mole, types of compounds, and problem solving.

GenEd: B1

**CHEM 110 CHEMISTRY OF LIFE (4)**

Three hours lecture per week

Three hours laboratory per week

Prerequisites: Satisfy the Entry Level Mathematics (ELM) requirement

Fundamentals of chemistry including the composition of atoms and molecules, mass balance, energy, properties of gases and solutions, solubility, diffusion, ionic strength, acid-base chemistry, and basic nuclear chemistry. Structure and reactivity of inorganic, organic, and biological molecules. Enzyme catalysis, including the metabolism of sugars, lipids, and proteins. Hazards of chemicals and their interactions with the human body. Integrated lecture and laboratory. No credit given towards the Chemistry major.

Lab fee required.

GenEd: B1

**CHEM 121 GENERAL CHEMISTRY I (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: CHEM 105 or 1 year high school chemistry

An introductory chemistry course which provides an overview of the chemical and physical behavior of matter with a focus on qualitative and quantitative general inorganic, physical, and analytical chemistry. Lab fee required.

GenEd: B1

**CHEM 122 GENERAL CHEMISTRY II (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: CHEM 121 with a grade of C or better

An introductory chemistry course which provides an overview of the chemical and physical behavior of matter with a focus on quantitative general inorganic, physical, and analytical chemistry including kinetics and thermodynamics of reactions, gas phase and solution equilibria, and qualitative aspects of radiochemistry, organic chemistry, and polymer chemistry. Lab fee required.

GenEd: B1

**CHEM 123 GENERAL CHEMISTRY I PROBLEM-SOLVING (1)**

One hour activity per week

Co-requisite: Must be taken concurrently with CHEM 121

An instructor/peer-supervised interactive problem-solving session for students in CHEM 121 where students work in small groups on problems related to the content in CHEM 121.

**CHEM 124 GENERAL CHEMISTRY II PROBLEM-SOLVING (1)**

One hour activity per week.

Co-requisite: CHEM 122

An instructor/peer-supervised interactive problem-solving session for students in CHEM 122 where students work in small groups on problems related to the content in CHEM 122.

**CHEM 250 QUANTITATIVE ANALYSIS (2)**

Two hours lecture per week

Prerequisite: CHEM 122 with a grade of C or better

Co-requisite: CHEM 251

An examination of the theory and techniques involved in the quantification of inorganic, organic, and biological species from samples with an emphasis on the environmental, biological, and medical applications of the analysis techniques.

**CHEM 251 QUANTITATIVE ANALYSIS LABORATORY (2)**

Six hours of laboratory per week

Prerequisite: CHEM 122 with a grade of C or better

Co-requisite: CHEM 250

A laboratory course designed to provide students with an exposure to the techniques used in the quantification of inorganic, organic, and biological species from samples using gravimetric and volumetric analyses, potentiometric titrations, atomic absorption spectrometry, UV-visible spectroscopy, GC, and GC/MS. Lab fee required.

**CHEM 301 ENVIRONMENTAL CHEMISTRY (3)**

Three hours lecture per week

Prerequisite: CHEM 122 with a grade of C or better

An introductory course to the chemistry of the environment. The goal of this course is to teach the fundamental natural chemical processes of the atmosphere, oceans and soil of the Earth, as well as the anthropogenic effects on this system. Current topics of environmental interest will be discussed. The sciences behind these processes will be the focus of this course.

**CHEM 305 COMPUTER APPLICATIONS IN CHEMISTRY (1)**

One hour of activity per week.

Prerequisite: CHEM 122 with a grade of C or better

This course will introduce the use of computer applications to solve chemical problems and present scientific information. Topics include: on-line journals and literature searches, reading and understanding the scientific literature, computer modeling of molecules, and website development. Lab fee required.

GenEd: B4

**CHEM 311 ORGANIC CHEMISTRY I (3)**

Three hours lecture per week

Prerequisite: CHEM 122 with a grade of C or better

The structure and reactions of simple organic molecules and spectroscopic techniques (NMR, GC-MS, IR, and UV-visible) used to characterize molecules.

**CHEM 312 ORGANIC CHEMISTRY I LABORATORY (1)**

Three hours laboratory per week

Prerequisite: CHEM 311 (or taken concurrently ) with a grade of C or better

A laboratory course designed to provide students with an exposure to the techniques and instrumentation (NMR, GC, GC-MS, LC, IR, and UV-visible) used to purify and characterize organic molecules resulting from organic reactions. Lab fee required.

**CHEM 313 ORGANIC CHEMISTRY I LEARNING COMMUNITY (1)**

One hour recitation per week

Co-requisite: CHEM 311

Interactive problem-solving session for students in CHEM 311 where students work in small groups on problems related to the content in CHEM 311.

**CHEM 314 ORGANIC CHEMISTRY II (3)**

Three hours lecture per week

Prerequisite: CHEM 311 with a grade of C or better

An examination of the structure, reactions, and spectroscopy of organic compounds containing one or more functional groups, and the structures and reactions of biologically relevant molecules.

**CHEM 315 ORGANIC CHEMISTRY II LABORATORY (1)**

Three hours laboratory per week

Prerequisite: CHEM 311, CHEM 312, and CHEM 314 (or taken concurrently ) with grades of C or better

A laboratory course designed to provide students with experience in single-step and multi-step syntheses and characterization of organic molecules with hands-on access to instrumentation (NMR, GC, GC-MS, LC, IR, and UV-visible). Lab fee required.

**CHEM 316 ORGANIC CHEMISTRY II LEARNING COMMUNITY (1)**

One hour recitation per week

Co-requisite: CHEM 314

Interactive problem-solving session for students enrolled in CHEM 314 where students work in small groups on problems related to the content in CHEM 314.

**CHEM 318 BIOLOGICAL CHEMISTRY (3)**

Three hours lecture per week

Prerequisite: CHEM 311 with a grade of C or better

An integrated Organic Chemistry II and Biochemistry. The topics covered include the structure and synthesis of sugars, amino acids, DNA, RNA, proteins; enzyme catalysis and inhibition; and the reactions involved in biosynthetic and metabolic pathways.

**CHEM 330 THE HISTORY OF SCIENCE: NONWESTERN ORIGINS AND THE WESTERN REVOLUTION (3)**

Three hours lecture per week

A survey of scientific history from 2000 BCE to the present that considers science as a set of made, lost and found ideas and technologies. Fields of inquiry are examined by tracing their historical and cultural trajectories through the African, Arab, Babylonian, Chinese, Egyptian, Greek, Indian, Incan, Japanese, Mayan and Sumerian worlds.

Same as HIST 330

GenEd: B1, Interdisciplinary

**CHEM 341 DRUG DISCOVERY & DEVELOPMENT (3)**

Three hours lecture per week

How are drugs discovered? What determines the price for a drug? What is the difference between a generic and non-generic drug? These questions will be examined with an interdisciplinary approach. Topics include the isolation of compounds from natural sources, the screening of compounds for biological activity, structure-activity relationships of drugs, computer-assisted drug design, combinatorial chemistry, bioinformatics, the FDA approval process for new drugs, and the economic and business aspects of pharmaceutical investment and development.

Same as ECON 341, BUS 341

GenEd: B1, D, Interdisciplinary

**CHEM 343 FORENSIC SCIENCE (3)**

Two hours lecture and three hours laboratory per week

A survey of the various chemical and biological techniques used in obtaining and evaluating criminal evidence. Topics include: chromatography; mass spectrometry (LC-MS, GC-MS); atomic absorption spectrometry; IR, UV, fluorescence, and X-ray spectroscopies; fiber comparisons; drug analysis; arson/explosive residue analysis; toxicological studies; blood typing; DNA analysis; population genetics; firearm identification; and fingerprint analysis.

GenEd: B1, Interdisciplinary

**CHEM 344 ENERGY AND SOCIETY (3)**

Three hours lecture per week

Survey of the physical, chemical, and engineering principles involved in the production of energy from current and potential sources and the economical, environmental, and political issues surrounding energy production. The course will also examine factors that influence worldwide energy policy. Examples of topics included: energy conservation, efficient usage and transportation of energy, energy resources, fossil fuels, active and passive solar energy, biomass, fuel cells, nuclear (fission and fusion) processes, and hydroelectric, tidal, geothermal, and wind power.

Same as PHYS 344

GenEd: B1, Interdisciplinary

**CHEM 371 PHYSICAL CHEMISTRY I (3)**

Three hours lecture per week

Prerequisite: CHEM 122 with a grade of C or better, PHYS 101 or PHYS 201, and MATH 150

This course is designed to introduce thermodynamics and kinetics. Areas covered will include the laws of thermodynamics, changes in state, chemical equilibrium, gas kinetic theory, rates of reactions, and experimental methods used to determine chemical reaction rates.

**CHEM 372 PHYSICAL CHEMISTRY LABORATORY (1)**

Three hours laboratory per week

Prerequisite: CHEM 371 (or concurrent registration)

This course is designed to introduce experimental physical chemistry including measurement of thermodynamic and kinetic properties. Lab fee required.

**CHEM 373 PHYSICAL CHEMISTRY II (3)**

Three hours lecture per week

Prerequisite: CHEM 122 with a grade of C or better, PHYS 101 or PHYS 201, and MATH 150

Introduction to quantum mechanics, atomic and molecular structure, spectroscopy, and statistical mechanics.



**CHEM 410 ADVANCED ORGANIC SYNTHESIS (4)**

Three hours lecture and three hours laboratory per week  
 Prerequisite: CHEM 305 (or concurrent enrollment), CHEM 314, and CHEM 315 or consent of instructor  
 This course will examine modern synthetic reactions and approaches in the design of complex organic molecules. The laboratory introduces students to advanced synthetic reactions and techniques, including inert-atmosphere techniques. Lab fee required.

**CHEM 415 MOLECULAR STRUCTURE DETERMINATION (4)**

Three hours lecture and three hours laboratory per week  
 Prerequisite: CHEM 305 (or concurrent enrollment), CHEM 314, CHEM 315 or consent of instructor  
 This course will examine modern techniques for the determination of organic, inorganic, and biological molecular structure. Topics include X-ray crystallography, nuclear magnetic resonance spectroscopy, mass spectrometry, infrared spectroscopy, ultraviolet spectroscopy, and molecular modeling. Lab fee required.

**CHEM 450 INSTRUMENTAL ANALYSIS AND LABORATORY (4)**

Three hours lecture and three hours laboratory per week  
 Prerequisite: CHEM 250, CHEM 251, CHEM 305 (or concurrent enrollment or consent of instructor), and CHEM 315 with a grade of C or better  
 This course is designed to introduce chemical analysis using instrumental methods. Areas covered will include atomic and molecular spectroscopy, chromatography, and mass spectroscopy. Lectures will focus on theory and application of these techniques to organic, inorganic, and biochemical analysis. Experimental design, materials used in scientific apparatus, vacuum science and electronic circuits will also be examined. Lab fee required.

**CHEM 460 BIOCHEMISTRY I (4)**

Three hours lecture and three hours laboratory per week  
 Prerequisite: CHEM 314 with a grade of C or better  
 This course will examine the physical and chemical properties of biological molecules. Topics include: the structure and function of nucleic acids, proteins, lipids, and carbohydrates. Lab Fee Required.

**CHEM 461 BIOCHEMISTRY II (4)**

Three hours lecture and three hours laboratory per week  
 Prerequisite: CHEM 305 (or concurrent enrollment), CHEM 460 with a grade of C or better or consent of instructor.  
 This course will focus on the biochemical reactions that occur in cells. Topics include biosynthesis of proteins, lipids and nucleic acids, photosynthesis, cellular metabolism, and gene expression. Lab fee required.

**CHEM 465 BIOINORGANIC CHEMISTRY (4)**

Three hours lecture and three hours laboratory per week  
 Prerequisite: CHEM 305 (or concurrent enrollment), CHEM 314 with a grade of C or better or consent of instructor  
 This course will examine the inorganic chemistry of biological systems including the role of metals such as zinc, iron, copper, manganese, and molybdenum in protein/ enzyme function. The course will discuss principles of coordination chemistry, protein and DNA functional groups and their metal-binding ability, and the role of metal ions in the reaction mechanisms of metalloenzymes.

**CHEM 490 SPECIAL TOPICS IN CHEMISTRY (1-3)**

Prerequisite: Consent of instructor  
 Specialized topics from the fields of Chemistry and Biochemistry. Repeatable by topic.

**CHEM 492 INTERNSHIP/ SERVICE LEARNING (1-3)**

Prerequisite: Consent of instructor  
 Provides student credit for internship work and/or service learning in the community that culminates in a written and oral report. Repeatable.

**CHEM 494 INDEPENDENT RESEARCH (1-3)**

Prerequisite: Consent of instructor  
 Provides student credit for independent research (laboratory or library) that culminates in a written and oral report. Repeatable.

**CHEM 497 DIRECTED STUDIES (1-3)**

Prerequisite: Consent of instructor  
 Provides student credit for curricular activities under the direction of a Chemistry faculty member. Repeatable.

**CHEM 499 CHEMISTRY CAPSTONE COLLOQUIUM (1)**

Prerequisite: CHEM 305, CHEM 371 and CHEM 492 or 494 (or concurrent enrollment)  
 Oral and written presentation of work completed or work-in progress projects of CHEM 492 or 494 courses. Graded Credit/No Credit





## CHICANO/A STUDIES

### CHS 100 CHICANAS/OS IN CONTEMPORARY SOCIETY (3)

Three hours lecture per week

This course offers an introductory study of Chicanas/os in contemporary society in the United States. It focuses on areas such as culture, history, fine arts, family, language, education, politics, economics, and social issues as they relate to the Mexican American experience in relationship to other groups in American society.

GenEd: C3B,D

### CHS 364 CHICANO ENGLISH (3)

Three hours lecture per week

Examination of the social, cultural and linguistic factors that influence the development of Chicano English. Investigates the language use of Chicanas/os and the sociolinguistic and sociocultural ways of speaking and communicating. Issues of language variety, influence of Spanish, social history and use and function in the Chicano community. Implications for K-12 schooling are addressed.



## COMMUNICATION

### COMM 101 PUBLIC SPEAKING (3)

Three hours lecture per week

Introduction to communication theory and the study of the human communication process with an emphasis on effective public communication. Includes intensive practice in public speaking, reasoning, and critical listening.

GenEd: A1

### COMM 200 INTRODUCTION TO COMMUNICATION STUDIES (3)

Three hours lecture per week

Prerequisite: COMM 101

Foundational principles and theories of communication provide the student with alternate ways to understand human interaction. Tracing historical and cultural answers to the question, what is communication, guides students to consider alternate paradigms.

GenEd: A1

### COMM 210 INTERPERSONAL COMMUNICATION (3)

Three hours lecture per week

Analysis of the role communication plays in interpersonal relationships with special emphasis on intercultural communication. Oral interpersonal communication skills will be stressed.

GenEd: A1

### COMM 220 GROUP COMMUNICATION (3)

Three hours lecture per week

This course examines communication in the small group context. It will investigate the important theoretical foundations and practical applications of group communication as well as apply those theories and skills to actual group interactions.

GenEd: A1

### COMM 310 COMMUNICATION RESEARCH METHODS (3)

Three hours lecture per week

Prerequisite: COMM 200

Investigation of methodology and analytical techniques of human communication, including participant observation, interview, focus groups, surveys, conversation and content analysis.

### COMM 320 PERSUASION & ARGUMENTATION (3)

Three hours lecture per week

Prerequisite: COMM 101

Students will debate one another in contemporary topics in health, business and the environment. Students will also participate in creating a public campaign to persuade a larger audience.

**COMM 321 CULTURAL CONVERSATIONS (3)**

Three hours lecture per week

Focuses on the ways that people from different cultures interact. Students will analyze and participate in conversations with people who claim different group memberships such as regional, religious, ethnic, or national backgrounds, age, gender and sexual orientations.

GenEd: C3B

**COMM 331 ART, SOCIETY, AND MASS MEDIA (3)**

Three hours lecture per week

The study of synergetic relationships between visual art and human communication dating back to the roots of civilization. Comparative studies in art and communication link ancient traditions to the development of contemporary mass media including print, photography, film, television and the Internet.

GenEd: C1,D,Interdisciplinary

Same as ART 331

**COMM 335 POLITICS AND FILM (3)**

Two hours lecture and two hours activity per week.

Explores the themes, issues and processes of politics through an in depth study of selected films. Area of focus varies by semester.

GenEd: Interdisciplinary

Same as POLS 335

GenEd: D,Interdisciplinary

**COMM 336 MULTICULTURAL LITERATURE AND COMMUNICATION (3)**

Three hours lecture per week

Examines issues of cross-cultural communication in interpersonal and intergroup settings. Works of literature which take cross-cultural communication as a theme will be examined.

Same as ENGL 336

GenEd: A1,C2,Interdisciplinary

**COMM 345 MEDIA LITERACY & YOUTH CULTURE (3)**

Three hours lecture per week

This interdisciplinary course examines the relationship between mass communication, mass media, and youth culture. Topics include the theories and effects of mass communication, in particular the effects of mass media on children and adolescents. To develop media literacy, students will apply these concepts to their own experiences with popular media, including television, print, and film.

Same as EDUC 345

GenEd: A1,D,Interdisciplinary

**COMM 346 SCHOOL COMMUNICATION (3)**

Three hours lecture per week

Examines written, verbal and nonverbal communication in school settings between teachers and stakeholders. Emphasizes the importance of communication and successful personal interactions.

Same as EDUC 346

GenEd: A1,Interdisciplinary

**COMM 430 POLITICAL COMMUNICATION (3)**

Three hours lecture per week

An analysis of the relationship between mass media and political decision-making. Topics covered include: political communication theories and trends, the relationship between political institutions and the press in the US and in other countries, elections, debates, political campaigning and advertising, new media and politics, political socialization, education, politics and popular culture.

GenEd: Interdisciplinary

Same as POLS 430

GenEd: D,Interdisciplinary

**COMM 441 HEALTH COMMUNICATION (3)**

Three hours lecture per week

Prerequisites: COMM 320

Explores the evolution of health as a major topic in communication studies. Focuses on conversations between health practitioners and patients as well as public health campaigns.

Same as NRS 441

GenEd: D,Interdisciplinary

**COMM 442 ORGANIZATIONAL COMMUNICATION (3)**

Three hours lecture per week

Prerequisites: COMM 101 and COMM 210 or COMM 220

This course examines and compares internal and external communicative practices in for profit and nonprofit organizations. By examining a series of case studies, students will integrate knowledge from business and marketing and apply communication competence to the production and analysis of organizational messages.

GnEd: A1, Interdisciplinary

**COMM 443 ENVIRONMENTAL COMMUNICATION (3)**

Three hours lecture per week

Prerequisite: ESRM 100 and COMM 101 or COMM 320

Students will analyze and engage in debates about local, national and global environmental disputes. Topics include analysis of risk, community dialogue and strategic environmental messages.

Same as ESRM 443

**COMM 492 INTERNSHIP/SERVICE LEARNING (1-3)**

Three hours activity per week

Prerequisite: COMM 441 or COMM 442 or COMM 443

Provides student opportunities for credit for internship work and/or student learning in the community that culminates in a written and oral report.



**COMM 499 CAPSTONE PROJECT (1)**

Three hours activity per week

Prerequisites: COMM 441 or COMM 442 or COMM 443

Oral and written work are saved and organized as artifacts within an e-portfolio. Students write reflective narratives to demonstrate how their work in one of the Communication emphases is integrated and responds to the program learning objectives.

Graded Credit/No Credit

**COMPUTER SCIENCE****COMP 100 COMPUTERS: THEIR IMPACT & USE (3)**

Three hours lecture in the lab per week

An introduction to the uses, concepts, techniques, and terminology of computing. Places the possibilities and problems of computer use in historical, economic, and social contexts. Shows how computers can assist in a wide range of personal, commercial, and organizational activities. Typical computer applications, including word processing, spreadsheets, and databases. Not open to Computer Science majors.

GenEd: B4

**COMP 101 COMPUTER LITERACY (3)**

Three hours lecture in the lab per week

An introduction to computer applications, including web applications, word processing, spreadsheets, databases and programming. Includes service learning component. Not open to Computer Science majors.

GenEd: B4

**COMP 102 WEB DEVELOPMENT (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 101 or consent of the instructor

Introduction to the design and development of web pages. Use of HTML and scripting languages. Use of multimedia content. Current web development tools. Including web site database applications.

GenEd: B4

**COMP 105 COMPUTER PROGRAMMING INTRODUCTION (3)**

Three hours lecture in the lab per week

Provides a balanced view of computing and provides an introduction to the world of computer science. In depth coverage of the design, development, and expression of algorithms. Covers a variety of concepts relevant to the beginning student, including computer organization and design. Not open to students who have completed COMP 150.

GenEd: B4

**COMP 110 COMPUTER LITERACY FOR EDUCATORS (3)**

Three hours lecture per week

An introduction to computer systems, including web applications, word processing, spreadsheets, database emphasizing their use in educational settings.

Same as EDUC 110

GenEd: B4

**COMP 150 OBJECT-ORIENTED PROGRAMMING (4)**

Four hours lecture in the lab per week

Prerequisite: Programming experience

Introduction to algorithms, their representation, design, structuring, analysis and optimization. The course introduces the concept of object paradigm, design and implementation of algorithms as structured programs in a high level language.

GenEd: B4

**COMP 151 DATA STRUCTURES AND PROGRAM DESIGN (4)**

Four hours lecture in the lab per week

Prerequisite: COMP 150

Introduction to data structures and the algorithms that use them. Review of composite data types such as arrays, records, strings, and sets. Topics include: the role of the abstract data type in program design, definition, implementation and application of data structures such as stacks, queues, linked lists, trees and graphs; recursion; use of time-complexity expressions in evaluating algorithms.; comparative study of sorting and searching algorithms.

**COMP 162 COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE (3)**

Three hours lecture per week

Prerequisite: COMP 150

An introduction to computer architecture, assembly language programming, system software and computer applications. Topics include: number systems and data representation; internal organization of a computer; primitive instructions and operations; Assembly language; language translation principles; overview of operating systems.

**COMP 232 PROGRAMMING LANGUAGES (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 151 and COMP 162

Discussion of issues in the design, implementation, and use of high-level programming languages. Topics include: historical background; how languages reflect different design philosophies and user requirements; technical issues in the design of major imperative (procedural) programming languages; other approaches to programming: functional programming, logic programming, and object-oriented programming.

**COMP 262 COMPUTER ORGANIZATION AND ARCHITECTURE (3)**

Three hours lecture per week

Prerequisite: COMP 151 and COMP 162

Extension of basic addressing concepts to more advanced addressability such as base register and self relative addressing. Topics include: comparative computer architecture focusing on such organizations as multiple register processors and stack machines; basics of virtual memory, input/output; introduction to the concept of microprogrammable systems; low-level language translation process associated with assemblers; system functions such as relocatable loading and memory management; application of data structure and hashing techniques to the above.

**COMP 337 SURVEY OF COMPUTER GAMING (3)**

Three hours lecture per week

This course provides the student with a broad understanding of the world of computer gaming. This includes the evaluation and analysis of the cultural, historical, literary, psychological, and technological impact of computer gaming on society. The course will survey the different types of computer games such as educational, sports, first person shooter, adventure, and strategy, along with an overview of the design, implementation, and testing issues that confront game developers. The student will construct, submit and evaluate several written reports during the semester. GenEd: B4, Interdisciplinary

**COMP 345 DIGITAL IMAGE PROCESSING (3)**

Three hours lecture in the lab per week

Prerequisite: Consent of the instructor

An introduction to the basic concepts and techniques for digital image restoration and enhancement, analysis, coding and compression. The emphasis is on processes which analyze primarily two-dimensional discrete images represented at the pixel level, including filtering, noise reduction and segmentation. Fourier analysis techniques will be explored. Programming exercises will be used to implement the various processes, and their performance on synthetic and real images will be studied.

Same as PHYS 345, MATH 345

GenEd: B1, B4, Interdisciplinary

**COMP 350 INTRODUCTION TO SOFTWARE ENGINEERING (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 232 and COMP 262

Concepts and techniques for systems engineering, requirements analysis, design, implementation and testing of large scale computer systems. Principles of software engineering for production of reliable, maintainable and portable software products. Emphasis on functional analysis and structured design techniques. Topics include unit, integration and systems testing, configuration management, and software quality assurance practices. Participation in group activities involving analysis, design and implementation of a software intensive system. Introduction to Computer Aided Software Engineering (CASE).

**COMP 351 DISTRIBUTED COMPUTING (3)**

Three hours lecture per week

Prerequisites: COMP 151

Learn effective use of remote objects and component technologies in computer programs. Study of fundamentals of distributed programming technologies. Build expertise in using modern tools and services to transparently integrate local and remote resources to solve problems.



**COMP 362 OPERATING SYSTEMS (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 262

Examination of the principal types of systems including batch, multi-programming, and time-sharing. Networked systems are also discussed. The salient problems associated with implementing systems are considered including interrupt or event driven systems, multi-tasking, storage and data base management, and input-output. Emphasis will be placed on some of the simple algorithms used to solve common problems encountered such as deadlocks, queue service, and multiple accesses to data. Projects will be implemented to reinforce the lectures.

**COMP 410 COMPUTER APPLICATIONS IN BIOMEDICAL FIELDS (3)**

Three hours lecture in the lab per week

Prerequisite: BIOL 201 or consent of the instructor

Current applications of computers and data processing technology to the understanding and solving of specific problems in biomedical fields.

**COMP 420 DATABASE THEORY AND DESIGN (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 350

Topics include: database structure including: structure definition, data models, semantics of relations, and operation on data models; database schemas: element definition, use and manipulation of the schema; elements of implementation.; algebra of relations on a database; hierarchical data bases. Discussion of information retrieval, reliability, protection and integrity of databases.

**COMP 421 UNIX FOR PROGRAMMERS (3)**

Three hours lecture per week

Prerequisite: COMP 151 and COMP 362

In this course students will become proficient in the use of Unix operating environment including command line Unix utilities, vi and emacs editors, regular expressions, text processors and Unix shells. Discover fundamental Perl and its application in programming CGI. Learn how to write in C utilities that control the operating environment through the use of system calls. Find out how to develop programs using Unix facilities.

**COMP 422 DESIGN OF COMPILERS (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 232

Organization of compilers including lexical and syntax analysis, symbol tables, object code generation, code optimization techniques, and overall design. Compilation techniques and run-time structures.

**COMP 424 COMPUTER SYSTEM SECURITY (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 350

Security techniques in operating systems, data bases, and computer networks. Analysis of formal security models. Introduction to cryptography, and public key security schemas.

**COMP 425 COMPUTER GAME PROGRAMMING (3)**

Three hours lecture per week

Prerequisite: COMP 151

This course focuses on exploring software techniques for development of computer-controlled games. The topics include: principles of game design, integrating graphics, animation and audio in games, game control including methods based on artificial intelligence, networking for multi-player games, game optimization and deployment, and game development cycles

**COMP 429 COMPUTER NETWORKS (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 232 and COMP 362

Basic software design and analysis considerations in networking computers into coherent, cooperating systems capable of processing computational tasks in a distributed manner. Network topology, routing procedures, message multiplexing and process scheduling techniques will be discussed.

**COMP 437 FOUNDATIONS OF COMPUTER GAME DEVELOPMENT (3)**

Three hours lecture per week

Prerequisites: COMP 105, MATH 137, ART 205, ART 206 or instructor permission

This course lays down the foundation for a multi-disciplinary approach to computer game development. The students study game design principles followed by implementation methodologies and technologies. Management issues in the gaming industry are also examined. The students develop an understanding of how various perspectives from art, technology and business come together in the creation of compelling and profitable game entertainment.  
GenEd: B4, Interdisciplinary

**COMP 445 IMAGE ANALYSIS AND PATTERN RECOGNITION (3)**

Three hours lecture in the lab per week

Prerequisite: PHYS/COMP/MATH 345 or consent of the instructor

The course addresses the issue of analyzing the pattern content within an image. Pattern recognition consists of image segmentation, feature extraction and classification. The principles and concepts underpinning pattern recognition, and the evolution, utility and limitations of various techniques (including neural networks) will be studied. Programming exercises will be used to implement examples and applications of pattern recognition processes, and their performance on a variety of diverse synthetic and real images will be studied  
Same as PHYS 445, MATH 445  
GenEd: B1, B4, Interdisciplinary

**COMP 447 SOCIETAL ISSUES IN COMPUTING (3)**

Three hours lecture in the lab per week

Prerequisite: Senior standing

A survey course on the role of the digital computer in modern society. Topics include: dangers of the misuse of computers, privacy, copyright, computer crime, legal and social issues, as well as the proper and intelligent use of the machines.

GenEd: B4,D,Interdisciplinary

**COMP 449 HUMAN-COMPUTER INTERACTION (3)**

Three hours lecture in the lab per week

Prerequisite: Programming experience or consent of the instructor

The information exchange between humans and computer systems will be examined. Aspects of input/output devices, software engineering, and human factors will be discussed with respect to human-computer interactions. Topics include: text and graphic display; user modeling; program design, debugging, complexity and comprehension; and current research studies and methodologies.

Same as PSY 449

GenEd: B4,E,Interdisciplinary

**COMP 451 ADVANCED OBJECT-ORIENTED PROGRAMMING (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 350

Principles of object-oriented design and programming based on languages such as JAVA, C++ and Smalltalk will be presented. Understanding of the role of objects, methods, message passing, encapsulation, and inheritance for effective programming will be stressed. Language structure versus particular engineering objectives will be analyzed. Design Patterns techniques will be an unifying theme.

**COMP 452 COMPUTATIONAL BIOINFORMATICS (4)**

Four hours lecture in the lab per week

Prerequisite: Programming experience and Statistics, or consent of the instructor

Basic computational models used in molecular biology will be introduced. Topics include algorithms for string alignments, dynamic programming, structural superposition algorithms, computing with differential information, 3D motifs, Hidden Markov Models, phylogenetic trees, statistical/ information techniques for pattern recognition, genetic algorithms.

Same as MATH 452

**COMP 454 AUTOMATA, LANGUAGES, AND COMPUTATION (3)**

Three hours lecture in the lab per week

Prerequisite: MATH 300

Study of the relation of languages (i.e. sets of strings) and machines for processing these languages, with emphasis on classes of languages and corresponding classes of machines. Phrase structure languages and grammar. Types of grammars and classes of languages. Regular languages and finite state automata. Context-free languages and pushdown automata. Unrestricted languages and Turing Machines. Computability models of Turing, Church, Markov, and McCarthy. Applications to programming languages, compiler design, and program design and testing.

**COMP 462 EMBEDDED SYSTEMS (3)**

Three hours lecture per week

Prerequisites: COMP 362

This course covers the design of embedded systems. This includes the analysis of small computer systems designed for robotic mechanisms and common appliances such as cell phones and other hand held devices. The course will cover the design, implementation, and testing of software used in such systems with special attention paid to maximizing the use of limited computational resources and the need for event-driven real time system responses.

**COMP 464 COMPUTER GRAPHIC SYSTEMS AND DESIGN I (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 350 and MATH 240

Topics include: fundamental concepts of computer graphics; graphics devices; graphics languages; interactive systems; applications to art, science, engineering and business; trade-offs between hardware devices and software support.

**COMP 466 COMPUTER GRAPHIC SYSTEMS AND DESIGN II (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 464

Advanced concepts of computer graphics. Topics include computer graphics software and hardware, mathematical basis of geometric modeling, data base management in manufacturing environments, imagining and visualization.

**COMP 469 ARTIFICIAL INTELLIGENCE/ NEURAL NETS (3)**

Three hours lecture in the lab per week

Prerequisite: COMP 350 and 362

An exploration of the use of computers to perform computations normally associated with intelligence, pattern formation and recognition using various backpro iterations. Stacks, decision trees and other modern mining tools and computational models for knowledge representation will be covered. Other topics may include natural language and imagining.

**COMP 490 TOPICS IN COMPUTER SCIENCE (3)**

Three hours lecture per week

Prerequisite: Upper-division standing

Current issues in computer science.

**COMP 491 CAPSTONE PREPARATION (1)**

One hour seminar per week

Prerequisite: COMP 350, COMP 362, Senior Standing in the Computer Science Major

Research and develop a proposal for a significant software project under faculty supervision.

**COMP 492 INTERNSHIP (1-3)**

Prerequisite: Upper-division standing and program approval of written proposal

Supervised work and study in an industrial or scientific setting involving development of degree-related skills.

All students are required to present their projects at the Senior Colloquium.

**COMP 494 INDEPENDENT RESEARCH (1-3)**

Prerequisite: Upper-division standing and program approval of written proposal

Supervised project involving theoretical research in the field of computer science and its applications. All students are required to present their projects at the Senior Colloquium.

**COMP 497 DIRECTED STUDIES (3)**

Prerequisite: Program approval of written proposal

Supervised project involving library research in the field of computer science or its applications. All students are required to present their projects at the Senior Colloquium.

**COMP 499 CAPSTONE PROJECT (3)**

Three hours activity per week

Prerequisite: COMP 491

Design, implement and present a significant software project under faculty supervision.

**COMP 510 ALGORITHMS (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Design strategies for algorithms and data structures. Theoretical limits to space and time requirements. Time/space trade-offs. Categories of problems and algorithms. Applications to business, bioinformatics, engineering, telecommunications and other disciplines. Open problems in the field.

**COMP 520 ADVANCED DATABASE SYSTEMS (3)**

Three hours lecture in the lab per week.

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

This graduate course covers advanced analysis of Relational Database Management Systems including their design and implementation. Topics include relational algebras, Entity Relation Diagrams, first, second, and third Normal Forms, data integrity constraints, triggers, query Student Option: Graded or CR/NCimization, indexing, stored procedures, distributed databases, database administration issues, transaction processing and scheduling, object oriented database modeling, and data security.

**COMP 524 SECURITY (3)**

Three hours lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

A survey of security issues and techniques for stand-alone and networked computer systems including databases. Techniques such as auditing, risk analysis, cost-benefit analysis. Security standards. Application in various fields.

**COMP 529 NETWORK COMPUTING (3)**

Three hours of lecture in the lab per week.

Prerequisites: Prerequisite: Admission to the Computer Science or Mathematics Graduate Program and Consent of the Instructor

Design and programming in Java of distributed systems that use telecommunication networks as their computing platform.

**COMP 532 COMPUTATIONAL BIOINFORMATICS (3)**

Three hours of lecture in the lab per week.

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program and consent of the instructor

Contemporary computational models used in molecular biology and structures simulations will be introduced. Topics include dynamic programming, statistical/information techniques for pattern recognition, algorithms for string alignments, structural superposition algorithms, computing with differential information, 3D motifs, Hidden Markov Models, phylogenetic trees, genetic algorithms.

**COMP 549 HUMAN-COMPUTER INTERACTION (3)**

Three hours lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

The design, development and analysis of effective interfaces to computer systems. Trends in graphical user interfaces.

**COMP 550 ADVANCED SOFTWARE ENGINEERING (3)**

Three hours lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program and consent of the instructor

Fundamentals of Object-Oriented Design and Analysis. Designing systems with Unified Modeling Language (UML) and patterns. Applications to other fields.

**COMP 566 GEOMETRY & COMPUTER GRAPHIC (3)**

Three hours of lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Algorithms for geometric analysis and retrieval of 3D shapes from large 3D databases common in several fields, including computer graphics, computer-aided design, molecular biology, paleontology, and medicine. The focus of study will be recent methods for matching, registering, recognizing, classifying, clustering, segmenting, and understanding 3D data.

**COMP 569 ARTIFICIAL INTELLIGENCE (3)**

Three hours of lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

The course covers the many aspects of how human intelligence might be encoded in computer programs and mechanisms such as robots. This includes topics in Natural Language Processing, Computer Vision, Expert Systems, and Automated Problem Solving.

**COMP 571 BIOLOGICALLY INSPIRED COMPUTING (3)**

Three hours of lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Study of computing paradigms that have roots in Biology including Neuromorphic Systems, Evolutionary Systems, Genetic Programming, Swarm Intelligence and Artificial Immune Systems.

**COMP 572 NEURAL NETWORKS (3)**

Three hours of lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Covers the basic ideas of distributed computation with many simple processing units, similar to the neurons of the brain. Topics include: Hopfield style networks applied to optimization problems, and the backpropagation method applied to pattern classification problems. Additional topics include associate memory, binary vs. analog networks, simulated annealing.

**COMP 575 MULTI-AGENT SYSTEMS (3)**

Three hours lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Analysis of design issues that currently confront software engineers as they define the electronic ecosystem that will be housed in the computer networks of the future. The course focuses on state-of-the-art agent technology. In this course the student will build an agent development framework and then implement several intelligent agents.

**COMP 578 DATA MINING (3)**

Three hours lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

This graduate course covers the fundamentals of Data Mining. Topics include: the analysis of patterns of data in large databases and data warehouses, the application of statistical pattern recognition, and data modeling and knowledge representation. Applications in large databases and gene hunting.

**COMP 581 MATHEMATICAL METHODS IN ARTIFICIAL INTELLIGENCE (3)**

Three hours of lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

This course presents several branches of mathematics that provide computational basis for Artificial Intelligence. The course covers Trees and Search, The Concepts of Predicate Logic, The Theory of Resolution, Nonmonotonic Reasoning, Probability Theory, Bayesian Networks, Fuzziness and Belief Theory, Classifier Systems, Math for Neural Networks, Elements of Statistics, Decision Trees and Optimization.

Same as MATH 581

**COMP 590 ADVANCED TOPICS IN COMPUTER SCIENCE (3)**

Three hours lecture per week

Selected advanced topics in Computer Science.

**COMP 597 MASTER THESIS (1-9)**

Supervised research in the field of computer science or its applications. Required to present their research at Graduate Seminar.

**COMP 598 MASTER PROJECT (1-9)**

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Supervised industrial or scientific project involving design of new solutions in various applications. Required to present projects at the Graduate Seminar.

**COMP 599 GRADUATE SEMINAR (1)**

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Oral presentations of current advancements in the field, reports on students' research, master thesis, and projects. Repeatable.

**DANCE**

See Performing Arts - Dance



## ECONOMICS

### **ECON 110 PRINCIPLES OF MICROECONOMICS (3)**

Three hours lecture per week

The application of economic reasoning to the decisions of consumers and producers. Topics include opportunity cost, resource allocation, the price system, the organization of industry, market failures, distribution of income, public sector economics.

GenEd: D

### **ECON 111 PRINCIPLES OF MACROECONOMICS (3)**

Three hours lecture per week

Study of the workings of the economy. Topics include national income accounting, business cycles, employment and unemployment, inflation, economic growth, financial institutions, fiscal and monetary policy, and international trade.

GenEd: D

### **ECON 300 FUNDAMENTALS OF ECONOMICS (3)**

Three hours lecture per week

Basic economic training for citizens who wish to exercise a reasoned judgment about economic issues in public affairs. Content generally Same as ECON 110, 111 in condensed form. Not open to students with credit in ECON 110 or 111.

GenEd: D

### **ECON 310 INTERMEDIATE MICROECONOMICS (3)**

Three hours lecture per week

Prerequisite: ECON 110, ECON 111 and MATH 140 or MATH 150

Economic analysis of the decisions of consumers and producers. Emphasis on the theory of consumer behavior, the theory of the firm, price and output determination in various market structures, factor markets and externalities.

### **ECON 311 INTERMEDIATE MACROECONOMICS (3)**

Three hours lecture per week

Prerequisite: ECON 110, ECON 111 and MATH 140 or MATH 150

Determinants of levels of national income, employment, and price levels. Analysis of secular and cyclical changes in economic activity, and the effects of monetary and fiscal policies on these changes.

### **ECON 320 MONEY AND BANKING (3)**

Three hours lecture per week

Prerequisite: ECON 110, ECON 111 and MATH 140 or MATH 150

Nature and functions of money and its relation to prices; the monetary system of the United States; the functions of banks, bank credit, foreign exchange and monetary control. The impact of monetary policy on economic activity.

### **ECON 329 MANAGERIAL ECONOMICS (3)**

Three hours lecture per week

Prerequisite: ECON 110, ECON 111 and MATH 140 or MATH 150

Development of the tools of marginal analysis and their application to managerial decisions and planning. Topics include demand analysis, production and cost, pricing and output decisions under different market structures. Product and factor markets will be analyzed.

### **ECON 331 NARRATIVES OF THE WORKING CLASS (3)**

Three hours lecture per week

Examines the lives of working people using various thematic approaches and disciplinary methodologies. Materials included literature, film, and case studies. Same as ENGL 331, SOC 331, HIST 331, POLS 331  
GenEd: C2,D,Interdisciplinary

### **ECON 340 BUSINESS AND ECONOMICS IN AMERICAN LITERATURE (3)**

Three hours lecture/discussion per week

Explores the ways in which business and economics have been represented in American literature. Employs critical methodologies from the fields of Business, Economics, and Literary studies.

Same as BUS 340, ENGL 340

GenEd: C2,D,Interdisciplinary

### **ECON 341 DRUG DISCOVERY & DEVELOPMENT (3)**

Three hours lecture per week

How are drugs discovered? What determines the price for a drug? What is the difference between a generic and non-generic drug? These questions will be examined with an interdisciplinary approach. Topics include the isolation of compounds from natural sources, the screening of compounds for biological activity, structure-activity relationships of drugs, computer-assisted drug design, combinatorial chemistry, bioinformatics, the FDA approval process for new drugs, and the economic and business aspects of pharmaceutical investment and development.

Same as CHEM 341, BUS 341

GenEd: B1,D,Interdisciplinary

### **ECON 342 THE ZOO: CONSERVATION, EDUCATION AND RECREATION (3)**

Three hours lecture per week

An interdisciplinary study of zoos and zoological gardens from scientific, managerial, business, recreational and educational perspectives. Analyzes how these perspectives are linked within zoo practices. The course will include an in-depth case study of a local zoo. Field trips to local zoos will be required.

Same as BIOL 342, BUS 342, EDUC 342

GenEd: D,Interdisciplinary

**ECON 343 CAPITAL THEORY (3)**

Three hours lecture per week

Intertemporal choice and decision-making under uncertainty in our financial lives. Topics include: multi-period consumption, multi-period production, capital budgeting, modern portfolio theory and financial management.

Same as FIN 343

GenEd: D, Interdisciplinary

**ECON 344 THE LIBRARY: COLLECTIONS, SERVICES & INSTRUCTION (3)**

Two hours lecture per week

Two hours activity per week

A study of university, school (K-12), public, and special libraries from business, economic, library science, and educational perspectives. Analyzes how these perspectives are linked within library practices. The course will include study of local libraries. The course will include field trips to local libraries.

Same as BUS 344, EDUC 344, LIB 344

GenEd: D, Interdisciplinary

**ECON 349 HISTORY OF BUSINESS AND ECONOMICS IN NORTH AMERICA (3)**

Three hours of lecture per week

Examines the growth and development of the economies of North America since colonial times. Addresses social, ethical, economic and management issues during the development of Canada, the United States, and Mexico. Analyzes the business principles underlying the growth and development of the economies.

Same as HIST 349, BUS 349

GenEd: D, Interdisciplinary

**ECON 362 ENVIRONMENTAL ECONOMICS (3)**

Three hours lecture per week

Prerequisite: ECON 110 and ECON 111, or ECON 300

Economic analysis of environmental problems and policy. Market failures due to externalities, public goods, and common property resources are examined. Private (market) and public (government) solutions to environmental problems are examined.

**ECON 370 THE WORLD ECONOMY (3)**

Three hours lecture per week

Prerequisite: ECON 110 or 300

Theory, practice, and institutions of the international economy. Topics include international trade and investment, balance of payments, foreign exchange rates, international institutions in the global economy, and international economic policy.

**ECON 411 ECONOMICS OF ENTREPRENEURSHIP (3)**

Three hours lecture per week

Prerequisite: ECON 110 and ECON 111

Application of economic concepts to entrepreneurial strategies and decisions. Analysis of entrepreneurial activities as related to production, markets, innovation, risk, and the macroeconomy.

**ECON 415 INDUSTRIAL ORGANIZATION (3)**

Three hours of lecture per week

Prerequisite: ECON 310 or ECON 329

A theoretical and empirical examination of the structure, conduct and performance of industries. Topics include market structures, games and strategy, and pricing strategy.

**ECON 425 LABOR ECONOMICS (3)**

Three hours of lecture per week

Prerequisite: ECON 310 or ECON 329

An examination of the employment of labor as a factor of production. Topics include employment, wage rates, unions and collective bargaining, and labor legislation.

**ECON 444 VALUES AND VALUABLES (3)**

Three hours lecture per week

Prerequisite: ANTH 102 or ECON 110

Examination of the intimate linkages between the creation of cultural values and the perception of economic value through the analysis of production and exchange in various cultural contexts. Synthesis of the debates in the field of economic anthropology and application to pre-historic, modern, Western and non-Western societies.

Same as ANTH 444

GenEd: D, Interdisciplinary

**ECON 448 GLOBALIZATION AND DEVELOPMENT (3)**

Three hours lecture per week

Prerequisite: SOC 100

Examines empirical and theoretical issues of globalization from a sociological perspective, to understanding how the forces of globalization affect economic, political and cultural systems of both developed and developing nations.

Same as SOC 448, BUS 448

GenEd: D, Interdisciplinary

**ECON 450 PUBLIC SECTOR ECONOMICS (3)**

Three hours of lecture per week

Prerequisite: ECON 310 or ECON 329

The economic role of government with an emphasis on the allocation and distribution effects of government expenditures and taxation.

**ECON 455 URBAN AND REGIONAL ECONOMICS (3)**

Three hours of lecture per week

Prerequisite: ECON 310 or ECON 329

Economic analysis of urban and regional problems including the formation of cities, urban finance and services, growth, land use, transportation, income distribution, pollution, congestion, and law enforcement.

**ECON 464 NATURAL RESOURCE ECONOMICS (3)**

Three hours lecture per week

Prerequisite: ECON 310 or ECON 329

Microeconomics and capital theory applied to problems of conserving and managing natural resources. Analysis of public policies affecting renewable and nonrenewable resources including price controls, taxation and leasing. Representative topics include: forestry, fishery, energy, water and mineral economics.

**ECON 471 INTERNATIONAL TRADE (3)**

Three hours lecture per week

Prerequisite: ECON 310 or ECON 329

The theory of international trade, effects of tariff and non-tariff barriers, and conduct of commercial policy. Topics include theories of comparative advantage, gains from trade, distribution effects of trade, international factor movements and trade restrictions, the political economy of trade and industrial policy.

**ECON 472 INTERNATIONAL MACROECONOMICS (3)**

Three hours lecture per week

Prerequisite: ECON 311 or ECON 320

Macroeconomic analysis of the open economy, the impact of stabilization policies in a global economy, the role of the balance of payments, and the international monetary system. Topics include balance of payments accounts, spot-forward exchange rates, interest rate arbitrage, purchasing-power parity, exchange rate determination and macroeconomic policy in an open economy.

**ECON 473 DEVELOPMENT ECONOMICS (3)**

Three hours lecture per week

Prerequisites: ECON 310 or ECON 329

Economic underdevelopment and its causes from historical, institutional and structural perspectives. Theories and patterns of growth and development, and the role of government, trade, education. Regional focus may vary by semester.

**ECON 480 TOPICS IN ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS (3)**

Three hours lecture per week

Prerequisite: ECON 362 or ECON 464 or consent of the instructor

Application of economic analysis to topics in environmental and natural resource economics. Representative topics include: energy problems and policies, the measurement of market and non-market benefits and costs, endangered species management. Repeatable by topic.

**ECON 486 INTRODUCTION TO ECONOMETRICS (3)**

Three hours lecture per week

Prerequisite: ECON 310 or ECON 329, ECON 311 and MATH 340

Application of mathematical and statistical methods to economic data. Estimation of economic relationships using regression analysis, hypothesis testing, and forecasting.

**ECON 488 APPLIED MANAGERIAL ECONOMETRICS (4)**

Three hours lecture and two hour lab per week

Prerequisite: BIOL/MATH/PSY 202 or MATH 329 or 352, ECON 310 or ECON 329 and MATH 150

Emphasis on the collection and manipulation of economic data, and the application of econometric methods to business and resource management issues. Development of testable hypotheses, applications of estimation techniques and interpretation of regression results. Use of econometric software applications to estimate statistical relations.

**ECON 490 SPECIAL TOPICS (3)**

Three hours per week

Prerequisite: Consent of the instructor

In-depth analysis of current topics in economics. Topics vary each semester. Repeatable by topic.

**ECON 492 SERVICE LEARNING/INTERNSHIP (3)**

Six hours per week

Prerequisite: Consent of the instructor

Individual internship through service learning.

Graded Credit/No Credit

**ECON 493 SERVICE LEARNING AT THE ZOO (1-3)**

One to three hours activity per week

Prerequisites: BIOL/BUS/ECON/EDUC 342 and Consent of Instructor

Working with a local zoo, individuals or teams of students will engage in service learning projects. Students will apply skills and competencies acquired in their academic programs to issues and challenges facing modern zoos.

Student Option: Graded or CR/NCR

Same as UNIV 493, BIOL 493, BUS 493, EDUC 493

**ECON 497 DIRECTED STUDY (1-3)**

Variable hours per week

Prerequisite: Consent of the instructor

Individual contracted study on topics or research selected by the student and faculty mentor. Repeatable for up to nine units.

Graded Credit/No Credit

**ECON 499 CAPSTONE (3)**

Three hours of seminar per week

Prerequisites: Required upper division courses in economics major (may be taken concurrently) and senior standing.

In the capstone course, economics majors will analyze an economic issue stemming from their emphasis using the theoretical and empirical tools developed in the required major courses. The economic issue may be drawn from an internship or service learning placement. The course will culminate with a senior paper that is presented in class.

## EARLY CHILDHOOD STUDIES

### **ECS 101 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (3)**

Two hours seminar per week; two hours activity per week

An overview to the field of early childhood education paired with structured observational experiences in early childhood settings. Emphasis is placed on gaining an awareness of connections between disciplinary content knowledge about teaching and learning in early childhood. This course will provide students with the opportunity to explore career options for serving young children and families. Thirty hours of field experience in early childhood settings is required. Fingerprint clearance is required.

GenEd: D

### **ECS 320 EARLY CHILDHOOD SERVICE DELIVERY MODELS & PROGRAMS FOR YOUNG CHILDREN (3)**

Two hours lecture per week

Two hours activity per week

Prerequisites: ECS 101, PSY 210

Survey of early childhood service delivery models and programs with an emphasis on policy, recommended practices, and research implications. Historical and theoretical foundations from the primary professional disciplines and agencies serving young children and their families. Interdisciplinary and interagency coordination of early childhood service delivery systems. Examination of environmental arrangements and routines that support diverse child development in school, community, and family settings. Thirty hours of field experience in early childhood settings is required. Meets a course requirement for the Child Development Permit requirements for child, family, and community. Fingerprint clearance is required.

### **ECS 322 EARLY CHILDHOOD PROGRAM ADMINISTRATION (3)**

Three hours lecture per week

Prerequisites: ECS 320

Developing knowledge and competencies in administration of programs for young children; supervision of early childhood personnel and fiscal management; teacher selection; training and supervision; family involvement; and program evaluation.

### **ECS 325 TYPICAL & ATYPICAL DEVELOPMENT: BIRTH - AGE 8 (3)**

Two hours lecture per week; two hours activity per week

Prerequisites: PSY 210

Focus on typical and atypical development from infancy through eight years of age with an emphasis on the cognitive, social-emotional, language, and physical domains of development. Theories of typical and atypical child development are discussed with implications for applied contexts, including infant/toddler and preschool/early elementary settings. The contexts of development, including families, schools, communities, and culture are presented. Thirty hours of field experience in early childhood settings is required. Fingerprint clearance is required.

### **ECS 460 INFANT/TODDLER ASSESSMENT & INTERVENTION (3)**

Three hours lecture per week

Prerequisites: ECS 320, ECS 325, SPED 345

Corequisites: ECS 461 Focus on the developmental and ecological principles of assessment and teaching strategies for infants, toddlers, and young children, ages birth to three, and their families. This course will prepare students to plan and implement individualized, developmentally and culturally appropriate assessment and curricular/teaching strategies for very young children with and without disabilities in diverse settings with a focus on cognitive, social-emotional, language, and physical development. Infant/toddler transition planning to preschool.

### **ECS 461 INFANT/TODDLER STUDENT TEACHING & SEMINAR (4)**

Nine hours activity per week

One hour seminar per week

Prerequisites: ECS 320, ECS 325, SPED 345

Corequisites: ECS 460

Student teaching in center-based settings for infants and toddlers. Students practice assessment and instructional strategies. Seminar is held in conjunction with the student teaching experience to serve as a forum for integrating research, theory, and recommended practices. One full school day of student teaching per week. Fingerprint clearance is required.

### **ECS 468 EARLY NUMERACY & LITERACY FOR CHILDREN AGES 3 - 8 (3)**

Three hours lecture per week

Prerequisites: ECS 320, ECS 325, ENGL 312

Corequisites: ECS 470, ECS 471

Focus on the principles, assessment, and methods of early numeracy and literacy development for children ages three through eight years; with a specific emphasis on English learners, children with special needs, and exceptional learners; issues of multiculturalism and multilingualism are infused throughout the course.



**ECS 470 PRESCHOOL/PRIMARY ASSESSMENT & TEACHING STRATEGIES (3)**

Three hours lecture per week

Prerequisites: ART 102, ECS 325, ECS 330, HLTH 322, PHED 302, SPED 345

Corequisites: ECS 468, ECS 471

Focus on the developmental and ecological principles of assessment and teaching strategies for children, three through eight years of age and their families. Prepares students to plan and implement individualized, developmentally and culturally appropriate assessment and curricular/teaching strategies in preschool and early elementary settings. Assessment and teaching methodologies will focus on the promotion of cognitive and social-emotional development, creative expression and the understanding of social studies and science concepts for diverse children with and without disabilities. Classroom organization and individualized behavioral support strategies will be presented including transition planning from preschool to early elementary settings.

**ECS 471 PRESCHOOL/PRIMARY STUDENT TEACHING & SEMINAR (4)**

Fourteen (14) hours activity per week; One hour seminar per week

Corequisites: ECS 468, ECS 470

Student teaching in preschool and early elementary school settings. Students practice assessment and instructional strategies with children ages 3 through 8 years. Seminar is held in conjunction with the student teaching experience to serve as a forum for integrating research, theory, and recommended practices. One full school day of student teaching for the first eight weeks and three full days for the last eight weeks. Fingerprint clearance is required.

**EDUCATION - CURRICULUM AND INSTRUCTION****EDCI 602 ISSUES IN SECONDARY EDUCATION (3)**

Three hours seminar per week

Recent trends and issues in secondary schools including organization, purposes and functions, curriculum, and programs. Emphasizes school organization, the nature of the student population, standards, school curricula and programs, and issues of teacher and school change.

**EDCI 610 RESEARCH ON TEACHING (3)**

Three hours seminar per week

Prerequisite: EDUC 615

Concepts, methodologies, and findings of both historical and recent research on teaching. Questions that drive inquiry in the field, evolving research to answer these questions, and the knowledge derived from the study of teaching will be uncovered.

**EDUCATION - MULTICULTURAL****EDMC 550 THEORY AND METHODS OF BILINGUAL EDUCATION (2)**

Two hours lecture per week

Prerequisite: Admission to the Education Specialist: Mild/ Moderate Disabilities Credential Program or Holder of Valid Teaching Credential

This course increases the ability of participants to work and communicate cross-culturally and effectively with students and parents from diverse cultural and socio-economic backgrounds. to identify and apply basic cross-cultural, language and academic development competencies, to participate in culturally and linguistically effective programs, and to develop and use appropriate and responsive teaching strategies for multilingual/multicultural populations. This course addresses the needs of teachers faced with the growing diversity that exists in today's classrooms.

**EDMC 560 APPLICATION OF MAINSTREAM AND ENGLISH LANGUAGE DEVELOPMENT (2)**

Two hours lecture per week

Prerequisite: Admission to the Education Specialist: Mild/ Moderate Disabilities Credential Program or Holder of Valid Teaching Credential

Application of content and teaching methods for second language learners. Design of curricular and instructional programs for Language Minority/Limited English Proficient/English Language Development student, methods of language and content assessment, role and utilization of primary language, the use of SDAIE (Specially Designed Academic Instruction in English) in content instruction.

## EDUCATION - MULTI-LINGUAL

### EDML 563 PRIMARY LANGUAGE PEDAGOGY AND LITERACY I (2)

Two hours lecture per week

Prerequisites: Admission to the Multiple Subject Credential with BCLAS Emphasis Program

Primary language schooling for K-3 students in the U.S., language of emphasis curricular materials, assessment, and teaching reading and writing in Spanish.

### EDML 564 PRIMARY LANGUAGE PEDAGOGY AND LITERACY II (2)

Two hours lecture per week

Prerequisites: Admission to the Multiple Subjects Credential with BCLAD Emphasis Program

Primary language schooling in the US, Grades 3-6.

Instruction in language of emphasis, primary language methods across the curriculum, review curricular materials, assessment, and teaching reading and writing in Spanish.

## EDUCATION - MULTIPLE SUBJECTS

### EDMS 522 LITERACY 1: MULTICULTURAL/MULTILINGUAL (3)

Three hours of lecture/discussion per week

Prerequisite: Admission to the Multiple Subject Teacher Credential Program

Co-requisite: EDMS 562 (1-2 units) or EDMS 565

Topics include developmental theory and practice of the reading and writing process across the grade levels; study skills; foundations of reading and writing theory and practice for students who speak English as a first or second language; teaching reading and writing to native English speakers and English Language Learners in English-only, Multilingual and Bilingual contexts; literacy and language needs of English Language Learners and exceptional children; technology for teaching and learning is integrated.

### EDMS 523 LITERACY 2: MULTICULTURAL/MULTILINGUAL (4)

Four hours lecture/discussion per week

Prerequisite: Admission to the Multiple Subject Teacher Credential Program

Co-requisite: EDMS 562 (1-2 units) or EDMS 575

Differentiated instruction and scaffolding for English language learners, special education (including gifted) and English only students. Topics include reading and writing skills across the content areas and literature-based instruction for native English speakers and English Language Learners in English-only, Multilingual and Bilingual contexts. Needs of English Language Learners and exceptional children, technology for teaching and learning are integrated.

### EDMS 526 MODERN METHODS IN MATHEMATICS TEACHING (3)

Three hours lecture/discussion per week

Prerequisite: Admission to the Multiple Subject Credential Program

Co-requisite: EDMS 562 (1-2 units) or EDMS 565

Students learn to apply techniques and materials to teaching mathematics in elementary and middle schools. Special attention will be given to mathematical reasoning, problem solving skills, multiple representations and approaches including verbal, symbolic, graphic. Modern methods, including mathematical modeling, use of new technology and modern educational software will be stressed. Needs of English Language Learners and exceptional children, technology for teaching and learning are integrated.

### EDMS 527 HISTORY, SOCIAL STUDIES AND INTEGRATED ARTS (4)

Four hours of lecture/discussion per week

Prerequisite: Admission to the Multiple Subject Credential Program

Co-requisite: EDMS 562 (1-2 units) or EDMS 565

Focuses on curriculum for History, Social Sciences and Arts as delineated by the California Content Area Standards and the Curriculum Frameworks. Includes curriculum development, methods, techniques, planning and assessment in history, social studies and integrated arts. Needs of English Language Learners and exceptional children, technology for teaching and learning are integrated.

### EDMS 529 SCIENCE, HEALTH AND PHYSICAL EDUCATION (4)

Four hours lecture/discussion per week

Prerequisite: Admission to the Multiple Subject Credential Program

Co-requisite: EDMS 562 (1-2 units) or EDMS 575

Study of the application of recommended methods for teaching physical, life and earth science, health and physical education to students (K-8) based on research and theory. Students reflect upon their personal development and abilities to integrate theory and practice in science, health and physical education with other subject areas. Needs of English Language Learners and exceptional children, technology for teaching and learning are integrated.

### EDMS 562 FIELD EXPERIENCE MULTIPLE SUBJECT (PART-TIME PROGRAM) (2)

One full school day per week in local public schools

Prerequisite: Admission to the Multiple Subject Credential Program

Co-requisite: Any of the following two: EDMS 522, 523, 526, 527, or 529

Participatory observation in selected schools under the supervision of classroom teacher and university supervisor.

Graded Credit/No Credit

**EDMS 565 INITIAL STUDENT TEACHING MULTIPLE SUBJECT (7)**

Equivalent of eight weeks of full-time student teaching  
 Prerequisite: Admission to the Multiple Subject Credential Program  
 Co-requisite: EDMS 566  
 Participatory observation and teaching in selected schools under the supervision of classroom teacher and university supervisor, with a student teaching seminar.  
 Graded Credit/No Credit

**EDMS 566 INITIAL STUDENT TEACHING SEMINAR MULTIPLE SUBJECT (1)**

Bi-weekly two hour discussion  
 Prerequisite: Admission to the Multiple Subject Credential Program  
 Co-requisite: EDMS 565  
 Discussion and seminar with University Supervisor to discuss practical issues relevant to the student teaching experience.  
 Graded Credit/No Credit

**EDMS 575 ADVANCED STUDENT TEACHING MULTIPLE SUBJECT (7)**

Equivalent of eight weeks of full-time student teaching  
 Prerequisite: Admission to the Multiple Subject Credential Program  
 Co-requisite: EDMS 576  
 Participatory observation and teaching in selected schools under the supervision of classroom teacher and university supervisor, with a student teaching seminar.  
 Graded Credit/No Credit

**EDMS 576 ADVANCED STUDENT TEACHING SEMINAR MULTIPLE SUBJECT (1)**

Bi-weekly two hour discussion  
 Prerequisite: Admission to the Multiple Subject Credential Program  
 Co-requisite: EDMS 575  
 Discussion and seminar with University Supervisor to discuss practical issues relevant to the student teaching experience.  
 Graded Credit/No Credit

**EDUCATION - PRINCIPAL'S LEADERSHIP****EDPL 610 FOUNDATIONS OF CURRICULUM, INSTRUCTION, AND ASSESSMENT (3)**

Three hours lecture/discussion per week  
 Prerequisite: Admission to the Principals Leadership Program  
 Theories for design of curriculum, instruction and assessment in an inclusive school environment will be addressed. Topics include standards based curriculum, differentiated instruction, using assessment data to design on-going instruction at the classroom level, dynamics of the curriculum change process. Course results in the development of a deep and internalized understanding of effective teaching, learning and assessment for all students including English Language Learners and students with special needs.

**EDPL 620 INSTRUCTIONAL LEADERSHIP OF THE COLLABORATIVE INCLUSIVE SCHOOL (3)**

Three hours lecture/discussion per week  
 Prerequisite: Admission to the Principals Leadership Program  
 Leadership skills needed for implementation and evaluation of instructional programs that meet the needs of all learners. Focus on skills needed to involve teachers in reform and renewal of educational practice, shared instructional decision making and systematic improvement processes. Topics include skills needed for effective instructional supervision at the program and individual level, development of instructional staff, mentoring, coaching, direct instructional supervision integrated with the personnel decision making process involving hiring, renewal of contracts and granting of tenure.

**EDPL 621 LAW AND SCHOOL MANAGEMENT (3)**

Three hours lecture/discussion per week  
 Prerequisite: Admission to the Principals Leadership Program  
 Application of federal, state and local law to school government and management. Topics include legal principles of statutes and case law related to conduct of students, contracts, liabilities, torts, and individual rights; legal framework for the governance of public education; the role of the legislative process in the governance of schools; legal requirements of due process as it relates to students, parents, and school personnel; and special education law and procedures.



**EDPL 622 SCHOOL FINANCE AND PRINCIPLES OF APPLIED LEADERSHIP (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to the Principals Leadership Program

Application of the principles of leadership and management as found in the research literature to school and finance and management issues. Topics include public school finance, effective management of fiscal resources and business services at the site, budget development and implementation at the site level to support instructional program priorities and needs of instructional staff in meeting the needs of all students. Communication, human relations, power and authority, decision-making, managing conflict, facilitating change in the context of student management, health, safety, security, school community relations, and school support services (food services, custodial services, facilities maintenance.)

**EDPL 623 UNDERSTANDING AND INFLUENCING ORGANIZATIONS IN DIVERSE COMMUNITIES (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to the Principals Leadership Program

Organizational theory and leadership skills required to understand and implement change. Topics include organizational structures and the cultural context of schooling, moral and ethical leadership skills needed to guide, build consensus, resolve conflict, support risk-taking, and lead an entire school community in pursuit of a shared vision of educational excellence for all students.

**EDPL 624 HUMAN RESOURCE MANAGEMENT IN EDUCATION SETTINGS (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to the Principals Leadership Program

Leadership knowledge and skills needed to manage a Human Resource Program including personnel administration, supervision, assignment monitoring, negotiation and administration of contracts, supervision of risk management programs and all legal aspects of Human Resources administration.

**EDPL 625 BUILDING COLLABORATIVE, INCLUSIVE LEARNING COMMUNITIES (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to the Principals Leadership Program

Understanding and applying the skills needed to build an inclusive learning community. Topics include roles and relationships among students, staff, adults and families, professional development, shared decision making, teacher leadership, supporting special populations within the school, designing and implementing strategic plans focused on improved student achievement for all learners.

**EDPL 631 PROFESSIONAL DEVELOPMENT/ FIELDWORK I (1)**

Three three-hour seminars per semester and 20 hours of field experience

Prerequisite: Admission to the Principals Leadership Program

Collaborative assessment (student, university instructor, and mentor) of each candidate's competence for meeting CCTC standards and development of professional induction plan. Integration of fieldwork and application of knowledge and skills of entry level administrative position in local school or program settings. May be repeated for a maximum of two units.

Graded Credit/No Credit

**EDPL 632 PROFESSIONAL DEVELOPMENT/ FIELDWORK II (1-2)**

Six Three-hour seminars per semester and 40 hours of field experience

Prerequisite: Admission to the Principals Leadership Program

Continuing assessment of candidate competence for meeting CCTC standards integration of fieldwork, and application of knowledge and skills of entry level administrative position in local school or program settings. May be repeated for a maximum of four units.

Graded Credit/No Credit





## EDUCATION - SINGLE SUBJECTS

### EDSS 530 GENERAL SECONDARY SCHOOL METHODS (3)

Three hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 570 (1-2 units) or EDSS 575

Students learn and apply teaching strategies, assessment practices, lesson planning, and universal instructional design as appropriate for secondary classrooms. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms. Places special emphasis on middle school teaching and the middle school concept. Students will be placed in middle schools for the field placement/student teaching.

### EDSS 531 TEACHING MATHEMATICS IN MIDDLE SCHOOLS (3)

Three hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 570 (1-2 units) or EDSS 575

A study of content, methodology, materials and current research in teaching middle school mathematics.

Focuses on the state curricular mathematics frameworks appropriate for middle school classrooms. Emphasizes reflective practice based on California Standards for the Teaching Profession and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms

### EDSS 532 TEACHING SCIENCE IN MIDDLE SCHOOLS (3)

Three hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 570 (1-2 units) or EDSS 575

A study of content, methodology, materials and current research in middle school science teaching. Focuses on developing science process skills in middle school students. Emphasizes reflective practice based on California Standards for the Teaching Profession and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms.

### EDSS 533 TEACHING ENGLISH IN MIDDLE SCHOOLS (3)

Three hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 570 , EDSS 580, EDSS 575 or EDSS 585

A study of essential content and methods in teaching expository and creative writing and literature, primarily at the middle school level. Focuses on the strategies for building reading comprehension and for teaching textual interpretations, questioning strategies, and scaffolding techniques. Emphasizes reflective practice based on Teacher Performance Expectations and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Emphasizes teaching in multicultural, multilingual and inclusive classrooms.

### EDSS 540 LITERACY IN SECONDARY SCHOOLS (3)

Three hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 570 (1-2 units) or EDSS 575

Secondary students will learn methods and techniques for reading, writing, language and literacy across the secondary curriculum including students with varied language backgrounds. Emphasis on how language and literacy issues and processes are crucial to successful student learning and successful teaching across contexts and content areas. This course addresses the special needs of proficient readers and adolescents who struggle as readers. Includes approaches and methods that are consistent with a comprehensive, systematic program, and are aligned with the state adStudent Option: Graded or CR/NCed academic content standards for students in English language arts and the reading/language arts framework. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms.

### EDSS 541 TEACHING MATHEMATICS IN SECONDARY SCHOOLS (3)

Three hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 580 (1-2 units) or EDSS 585

A study of content, methodology, materials and current research in teaching secondary mathematics courses. Focuses on the curricular framework of mathematics as appropriate for high school courses. Emphasizes reflective practice based on California Standards for the Teaching Profession and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms.

**EDSS 542 TEACHING LIFE/PHYSICAL/GEO-SCIENCE IN SECONDARY SCHOOLS (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 580 (1-2 units) or EDSS 585

A study of the content, methodology, materials and current research in teaching high school science courses. Focuses on methods, curriculum design, and technology use specific to teaching science courses in grades 9-12. Emphasizes reflective practice based on California Standards for the Teaching Profession and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms.

**EDSS 543 TEACHING ENGLISH IN HIGH SCHOOLS (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 570, EDSS 580, EDSS 575 or EDSS 585

A study of the content and methods of teaching writing that are specific to language development, including a focus on grammar instruction, student errors, and writing challenges for English language learners; studies the teaching and integration of non-fiction, particularly at the high school level. Emphasizes reflective practice based on Teacher Performance Expectations and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms.

**EDSS 550 ACCESS TO LEARNING: ENGLISH LANGUAGE LEARNERS (2)**

Two hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

Various curricula and instructional programs designed for English language learners, including placement, grouping, methods of language and content assessment, English language development and specially designed academic instruction in English. Examination and application of theoretical and methodological issues in designing instruction for ELLs in classroom settings through reflective and critical practice.

**EDSS 560 ACCESS TO LEARNING: SPECIAL NEEDS LEARNERS (2)**

Two hours lecture/discussion per week

Prerequisite: Admission to the Single Subject Credential Program

This course focuses on methods and techniques for identifying and teaching students with special needs, culturally diverse, and gifted and talented students, and the unique issues associated with integrating students with special needs in secondary settings.

**EDSS 570 FIELD EXPERIENCE MIDDLE SCHOOL (PART-TIME PROGRAM) (1)**

Four hours per week in a middle school setting

Prerequisite: Admission to the Single Subject Credential Program.

Co-requisite: One of the following: EDSS 530, 531, 532, 533, or 540

Participatory observation in selected middle schools under the supervision of a classroom teacher and University supervisor. May be repeated for to a maximum of four units.

Graded Credit/No Credit

**EDSS 571 STUDENT TEACHING SEMINAR-MIDDLE SCHOOL (2)**

Two hours seminar per week

Prerequisite: Admission to the Single Subject Credential Program

Corequisite: EDSS 575; Concurrent enrollment in or completed one content methods course

Weekly meetings to discuss observations and teaching practice during the first student teaching experience. Teacher education performance assessments will be introduced.

Graded Credit/No Credit

**EDSS 575 STUDENT TEACHING MIDDLE SCHOOL (6)**

Equivalent of eight weeks of full-time student teaching

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 571

Participatory observation and teaching in selected middle level secondary schools under the supervision of a classroom teacher and University supervisor, with a student teaching seminar.

Graded Credit/No Credit

**EDSS 580 FIELD EXPERIENCE HIGH SCHOOL (PART-TIME PROGRAM) (1)**

Four hours per week in a high school setting

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 540, EDSS 541, EDSS 542, or EDSS 543

Participatory observation in selected high schools under the supervision of a classroom teacher and University supervisor. May be repeated to a maximum of three units.

Graded Credit/No Credit

**EDSS 581 STUDENT TEACHING SEMINAR-HIGH SCHOOL (2)**

Two hours seminar per week

Prerequisite: Admission to the Single Subject Credential Program. Successful completion of EDSS 575

Corequisite: EDSS 585 Concurrent enrollment in one or successfully completed two content methods courses.

Weekly meetings to discuss observations and teaching practice during the second student teaching experience.

Teacher education performance assessments will be completed as an exit requirement of the program.

Discussion and seminar with University supervisor to discuss practical issues relevant to the student teaching experience.

Graded Credit/No Credit

**EDSS 585 STUDENT TEACHING HIGH SCHOOL (6)**

Equivalent of eight weeks of full-time student teaching

Prerequisite: Admission to the Single Subject Credential Program

Co-requisite: EDSS 581

Participatory observation and teaching in selected high school level secondary schools under the supervision of classroom teacher and University supervisor, with a student teaching seminar.

Graded Credit/No Credit

**EDUCATION****EDUC 101 INTRODUCTION TO ELEMENTARY SCHOOLING (3)**

Two hours lecture and two hours activity per week

This service learning course provides structured observation and tutoring experiences which reflect a rich array of student diversity in local schools. Emphasis is placed on gaining awareness of connections between discipline knowledge and teaching and learning. This course will help students decide if a career in the elementary teaching profession is the right choice for them. Thirty hours of field experience in elementary schools is required.

GenEd: D

**EDUC 110 COMPUTER LITERACY FOR EDUCATORS (3)**

Three hours lecture per week

An introduction to computer systems, including web applications, word processing, spreadsheets, database emphasizing their use in educational settings.

Same as COMP 110

GenEd: B4

**EDUC 320 EDUCATION IN MODERN SOCIETY (3)**

Three hours lecture per week

Survey of educational institutions and practices used in different sectors of society. Includes historical and philosophical foundations of American education.

GenEd: D





**EDUC 330 INTRODUCTION TO SECONDARY SCHOOLING (3)**

Two hours lecture/discussion and two hours field observations per week

Through this course students are introduced to secondary school concepts and issues. Topics include middle school and high school organization and structures, the roles of school personnel, and teaching in specific content areas. Students will be placed in local middle and high schools classrooms in their content major and have seminars with university educators and content specialists to discuss subject matter coverage and teaching at various grade levels. It is recommended that students be concurrently enrolled in a core content course in their major. Field experience in secondary schools required.

GenEd: D,Interdisciplinary

**EDUC 342 THE ZOO: CONSERVATION, EDUCATION AND RECREATION (3)**

Three hours lecture per week

An interdisciplinary study of zoos and zoological gardens from scientific, managerial, business, recreational and educational perspectives. Analyzes how these perspectives are linked within zoo practices. The course will include an in-depth case study of a local zoo. Field trips to local zoos will be required.

Same as BIOL 342,BUS 342,ECON 342

GenEd: D,Interdisciplinary

**EDUC 344 THE LIBRARY: COLLECTIONS, SERVICES & INSTRUCTION (3)**

Two hours lecture per week

Two hours activity per week

A study of university, school (K-12), public, and special libraries from business, economic, library science, and educational perspectives. Analyzes how these perspectives are linked within library practices. The course will include study of local libraries. The course will include field trips to local libraries.

Same as BUS 344,ECON 344,LIB 344

GenEd: D,Interdisciplinary

**EDUC 345 MEDIA LITERACY & YOUTH CULTURE (3)**

Three hours lecture per week

This interdisciplinary course examines the relationship between mass communication, mass media, and youth culture. Topics include the theories and effects of mass communication, in particular the effects of mass media on children and adolescents. To develop media literacy, students will apply these concepts to their own experiences with popular media, including television, print, and film.

Same as COMM 345

GenEd: A1,D,Interdisciplinary

**EDUC 346 SCHOOL COMMUNICATION (3)**

Three hours lecture per week

Examines written, verbal and nonverbal communication in school settings between teachers and stakeholders.

Emphasizes the importance of communication and successful personal interactions.

Same as COMM 346

GenEd: A1,Interdisciplinary

**EDUC 431 EDUCATION POLICY AND POLITICS (3)**

Three hours lecture per week

Prerequisites: POLS 150 for POLS students or Consent of Instructor

Examines the roles of political institutions in education policy making, the political factors that shape policy formulation and implementation, the values and assumptions of different types of policies, and the links between policy and local-level implementation. Analyzes current and pending policies' effect on schools and classrooms to illustrate how education policy reflects American politics.

Same as POLS 431

GenEd: D,Interdisciplinary

**EDUC 434 THE MUSEUM: CULTURE, BUSINESS AND EDUCATION (3)**

Three hours lecture per week

This course is an interdisciplinary, in-depth study of a museum from the perspective of art, business, and education. Analyzes how artistic values, business and management issues and educational projects are linked within museum practices. Each term this course is offered it will focus on a specific museum in the area.

Same as ART 434,BUS 434

GenEd: C1,D,Interdisciplinary

**EDUC 445 CHICANO CHILD AND ADOLESCENT (4)**

Three hours lecture and two hours service learning per week

Examines the socio-cultural experiences and historical political realities pertinent to the daily lives of Chicano, Mexican-origin, and/or Latino children and adolescents. Focus is on historical periods, events, and policies affecting youth populations, its demography, migration and immigration patterns. Consideration of contemporary issues and effective educational and cultural practices will be used as a resource for teacher knowledge and pertinent classroom projects. Field study requirement involves working in a child-centered setting or related service project.

Same as HIST 445

GenEd: C3B,D,Interdisciplinary

**EDUC 490 SPECIAL TOPICS IN EDUCATION (1-3)**

Prerequisite: Consent of the instructor

In-depth analysis of current topics in Education. Topics vary each semester. Repeatable by topic.

Student Option: Graded or CR/NCR



**EDUC 493 SERVICE LEARNING AT THE ZOO (1-3)**

One to three hours activity per week

Prerequisites: BIOL/BUS/ECON/EDUC 342 and Consent of Instructor

Working with a local zoo, individuals or teams of students will engage in service learning projects. Students will apply skills and competencies acquired in their academic programs to issues and challenges facing modern zoos.

Student Option: Graded or CR/NCR

Same as UNIV 493, BIOL 493, BUS 493, ECON 493

**EDUC 494 INDEPENDENT RESEARCH (1-3)**

Students design and implement a study project in conjunction with a faculty member. Repeatable.

Student Option: Graded or CR/NCR

**EDUC 497 DIRECTED STUDIES (1-3)**

Provides student credit for curricular activities under the direction of an Education faculty member. Repeatable.

Graded Credit/No Credit

**EDUC 499 SENIOR CAPSTONE PROJECT/SEMINAR IN EDUCATION (1-3)**

Prerequisite: Upper division standing and consent of the instructor

Students work on research or community-based projects in the field of education. A written report of the project is required.

Student Option: Graded or CR/NCR

**EDUC 510 LEARNING THEORY AND DEVELOPMENT APPLIED IN MULTICULTURAL CONTEXTS (3)**

Three hours lecture/discussion per week and participation/observation in the public schools. Introduction to psychology of learning and instruction. Major concepts, principles, theories and research related to child and adolescent development; human learning; the cognitive, linguistic, social, emotional and physical development. Students begin to use this knowledge to create learning opportunities that support student development, motivation and learning in a social, cultural, and historical context. Includes learning theories and their application to educational practice in multicultural and multilingual classroom settings.

**EDUC 512 EQUITY, DIVERSITY AND FOUNDATIONS OF SCHOOLING (3)**

Three hours lecture/discussion per week

Principles of effectively teaching students from diverse language, historical, and cultural backgrounds. Includes skills and abilities and community values. Focus on the major cultural and ethnic groups. Attention to ways of recognizing and minimizing bias in the classroom and ways to create equitable classroom community that emphasize the physical, social, emotional and intellectual safety of all students. Includes study of gender bias, diverse students, families, schools and communities and the student's self-examination of his/her stated and implied beliefs, attitudes and expectations related to these areas of diversity and implications for daily classroom practice.

GenEd: C3B

**EDUC 520 OBSERVING AND GUIDING BEHAVIOR IN MULTILINGUAL/MULTICULTURAL AND INCLUSIVE CLASSROOMS (3)**

Three hours lecture/discussion per a week

Co-requisite: EDUC 521

Through this course students observe children's behavior in multilingual/multicultural and inclusive classrooms, learn and apply assessment principles and tools, learn how to guide children's social behavior, and communicate with families. Students learn how to organize and write lesson plans for instruction.

**EDUC 521 FIELD EXPERIENCE (1)**

Three hours per week in local public schools.

Co-requisite: EDUC 520

Participatory observation in selected schools under the supervision of classroom teacher and university supervisor. Fingerprint clearance is required.

Graded Credit/No Credit

**EDUC 561 TEACHING WITH TECHNOLOGY (3)**

Three hours lecture per week

Prepares students to use technology in educational settings and to develop skills for a variety of technology applications.

**EDUC 580 STUDENT TEACHING IN SPECIAL EDUCATION II (8)**

A minimum of two days per week for first 8 weeks of the semester and five days per week for second 8 weeks. Opportunity to gradually assume the responsibilities of a special education teacher in a public school including teaching, assessing students, IEP development, collaborating with parents, teachers and special services personnel.

Graded Credit/No Credit

**EDUC 605 EDUCATION IN A DIVERSE SOCIETY (3)**

Three hours lecture/discussion per week

Prerequisite: Completion of Baccalaureate Degree

This course focuses on effective leadership in working with diverse communities of teachers, students, and families and strategies for effectively involving families of diverse cultures in support of their child's educational achievement. Issues of gender, ethnicity, race, language, culture and disability are addressed in the context of promoting equity and excellence in learning opportunities and social interaction.

**EDUC 615 PRINCIPLES OF EDUCATIONAL RESEARCH (3)**

Three hours lecture/discussion per week

Prerequisite: Completion of Baccalaureate Degree

This course provides foundational knowledge about the principles of educational research in order to prepare students to conduct independent, disciplined inquiry and applied research in education.

**EDUC 616 MASTERS RESEARCH THESIS/PROJECT (1)**

Prerequisite: Admission to Masters of Education Program

Independent research on topic of choice with advisor approval. Repeatable.

**EDUC 617 ACTION RESEARCH (3)**

Three hours lecture per week

Prerequisites: EDUC 615

Introduces Action Research using various qualitative and quantitative methods that can be employed to answer research questions. Students will design an action research project that includes a literature review, research questions, methodology and pilot study that can be conducted at a school or community site.

**EDUC 618 COMPREHENSIVE EXAMINATION PREPARATION (1)**

One hour seminar per week

Corequisite: Admission to Masters of Arts in Education Seminar to prepare students for comprehensive examination in the Masters of Arts program in Education.

**EDUC 661 ADVANCED TEACHING WITH TECHNOLOGY (3)**

Three hours lecture per week

Focuses on ways teachers use technology to teach K-12 students.

**ENGLISH****ENGL 102 STRETCH COMPOSITION I (3)**

Three hours lecture per week

Focuses not on finished products but rather on helping students develop strategies for using writing to construct meaning, which in turn assists in generating thought-provoking discourse for the intended reader. Upon completing this course, students will have learned that all writing involves a recursive process of thinking and writing strategies often referred to as peer review, invention, prewriting, drafting, revising, and editing. This is the first in a two-course sequence of ENGL 102 and ENGL 103.

**ENGL 103 STRETCH COMPOSITION II (3)**

Three hours lecture per week

Prerequisite: ENGL 102

Focuses not on finished products but rather on helping students to develop strategies for using writing to construct meaning, which in turn assists in generating thought-provoking discourse for the intended reader. Students/Writers will become well-versed in a variety of approaches to constructing the types of genres required in their college courses and in the workplace. Completion of ENGL 103 fulfills the general education requirement for undergraduate writing and prepares students for success in their courses across the curriculum.

GenEd: A2

**ENGL 105 COMPOSITION AND RHETORIC I (3)**

Three hours lecture per week

Instruction and practice in writing university-level expository and persuasive prose. The subject matter of the course will be thematic and variable. The focus of the course is the development of proficiency in conceptualizing, analyzing and writing academic papers. Substantial writing is required. This course may be linked with another lower division course, in which case the student will enroll in both courses.

GenEd: A2

**ENGL 106 COMPOSITION AND RHETORIC II-SERVICE LEARNING (3)**

Two hours lecture and two hour activity per week

This course is designed to help students develop sophisticated, situation-sensitive reading and writing strategies. Students make arguments in formal and informal settings. Special attention is given to evidence discovery, claim support, argument response, and their applications to academic debate, public decision making, and written argument. Requires significant elements of service learning, including producing written work for not-for-profit organizations. A substantial amount of writing is required.

GenEd: A1,A2

**ENGL 107 ADVANCED COMPOSITION AND RHETORIC (3)**

Three hours lecture per week

Prerequisite: A grade of C or better in ENGL 103 or ENGL 105 or ENGL 106

An intensive, one-semester writing course that emphasizes research as a heuristic for learning, writing as an intellectual dialogue with the authorities represented in the evidence found, and which engages students in judging the merit and appropriateness of discovered evidence. A substantial amount of writing is required.  
GenEd: A1,A2

**ENGL 110 THEMES IN MULTICULTURAL LITERATURE FOR NON-MAJORS (3)**

Three hours lecture per week

Exploration of broad themes in literature across multiple genres and cultures, American and international.

Repeatable by topic.

GenEd: C2,C3B

**ENGL 120 AMERICAN LITERATURE I (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or 105 or equivalent

Study of major works of American Literature from colonial times through 1850, with special attention to literary movements. Major writers will be addressed, as well as lesser-known writers from various cultural and regional backgrounds.

GenEd: C2

**ENGL 150 BRITISH & EUROPEAN LITERATURE I (3)**

Three hours lecture/discussion per week

Prerequisite: 103 or 105 or equivalent

Survey of major authors in British and European literature from Beowulf to approximately 1650, with special emphasis on the intellectual backgrounds of the Medieval and Renaissance periods.

GenEd: C2

**ENGL 210 THEMES IN WORLD LITERATURE (3)**

Three hours lecture per week

A survey of world literature, focusing largely on texts by non-western authors, organized around one or more themes. Texts studied are primarily written by authors from the following areas: Asia, India and Pakistan, the Middle East, Africa, and Latin America.

GenEd: C2

**ENGL 212 INTRODUCTION TO CHILDREN'S LITERATURE (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or 105 or equivalent

An inquiry into children's literature. Students analyze works representative of several cultures and genres, including fiction, poetry, picture books, non-fiction, and traditional literature. Focus will be on critical reading of materials appropriate for grades K-6 as well as analysis of literary elements and structural features. The course will foster appreciation for and understanding of the author's craft through analytical papers, investigatory projects, and creative responses to children's literature. Formerly ENGL 312, changed in Fall 2007.

**ENGL 220 AMERICAN LITERATURE II (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 120 or equivalent or consent of instructor

Study of major works of American literature from 1850 to the present, with special attention to literary movements. Major writers will be addressed, as well as lesser known writers from various cultural and regional backgrounds.

GenEd: C2

**ENGL 230 THE ART OF CREATING JOURNALISM (3)**

Three hours lecture per week

Prerequisites: ENGL 103 or ENGL 105

This course will integrate concepts from English/Journalism, Education and Art. It is designed for students interested in producing print and photo journalism for local community publications. Topics will include journalistic writing styles and techniques, research strategies, interviewing methods, appropriate layout and design techniques. Projects will culminate in a product suitable for publication. No credit given toward the Art major.

GenEd: A2.

Same as ART 230,LS 230

**ENGL 250 BRITISH & EUROPEAN LITERATURE II (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 150 or equivalent or consent of instructor

Study of major works of British and European literature from approximately 1650 to the present, with special attention to various literary movements.

GenEd: C2

**ENGL 310 RESEARCH METHODS (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or 105 or equivalent

Comprehensive investigation of research modalities, including the various forms of electronic research. Writing intensive.

**ENGL 311 BILINGUAL LITERARY STUDIES/  
ESTUDIOS LITERARIOS BILINGUES (3)**

Three hours lecture per week

Prerequisite: ENGL 103 or 105 and SPAN 202 or 212 or consent of the instructor

This course explores the literatures of the Americas written in two languages: English and Spanish. Course texts will include works written by bilingual U.S. authors and Latin American authors writing primarily in Spanish; genres may include novels, with a special focus on Magical Realism/el realismo magico, short stories/cuentos, and poetry. Readings will be in the original language; class discussions will be bilingual. Same as SPAN 311

**ENGL 315 INTRODUCTION TO LANGUAGE,  
STRUCTURE AND LINGUISTICS (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or 105 or equivalent

An examination of the basic components of human language, including phonology, morphology, syntax and semantics, and the differences/similarities among languages. Students will identify examples of speech parts and their functions, morphologies, and syntax.

**ENGL 320 SOCIOLOGY OF POPULAR CULTURE (3)**

Three hours lecture per week

Prerequisite: SOC 100

Examines popular culture from a sociological and a comparative perspective. Emphasizes the impact of mass media on individual behavior, marketing and consumption of amusements and entertainments in the domestic and global marketplace.

Same as SOC 320

**ENGL 325 MAJOR NON-WESTERN AUTHORS (3)**

Three hours lecture per week

Prerequisite: ENGL 103 or ENGL 105 and either ENGL 220 or ENGL 250 or the equivalent.

A concentrated study of selected non-Western authors. Authors selected change from term to term; therefore, students may take the course for credit more than once. Repeatable by topic.

**ENGL 326 MAJOR BRITISH AND EUROPEAN  
AUTHORS (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 250 or equivalent

Concentrated study of selected British and/or European authors. Authors selected change from term to term; therefore, students may take the course for credit more than once. Repeatable by topic.

**ENGL 327 MAJOR AMERICAN AUTHORS (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 220 or equivalent

Concentrated study of selected American authors. Authors selected change from term to term; therefore, students may take the course for credit more than once. Repeatable by topic.

**ENGL 328 MYTHOLOGY (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or 105 or equivalent and one literature course

Study of mythology and the influence it has had on literature, art, music, and the development of cultures. Course topics may include Classical Mythology, Eastern Mythology, Mythology of the Americas, Egyptian Mythology, and others. Repeatable by topic.

**ENGL 330 WRITING IN THE DISCIPLINES (3)**

Three hours lecture/discussion per week

Individual and collaborative writing in a variety of styles and forms. Students will learn a variety of writing and research techniques, with special emphasis on writing for their chosen majors. Oral presentations form a portion of the course.

GenEd: A1,A2,Interdisciplinary

**ENGL 331 NARRATIVES OF THE WORKING CLASS (3)**

Three hours lecture per week

Examines the lives of working people using various thematic approaches and disciplinary methodologies. Materials included literature, film, and case studies.

Same as ECON 331,SOC 331,HIST 331,POLS 331

GenEd: C2,D,Interdisciplinary

**ENGL 332 TEACHING DRAMATIC LITERATURE (3)**

Three hours lecture per week

Prerequisite: ENGL 102 or ENGL 105 or equivalent plus one upper division literature course

This course will explore methods and approaches to teaching dramatic literature in secondary schools and colleges. The focus will be on elements of textual exploration and using heuristics from theatre to teach dramatic literature, including but not exclusively Shakespeare's plays.

Same as PATH 332

GenEd: C2,Interdisciplinary

**ENGL 333 MULTICULTURAL DRAMA IN  
PERFORMANCE/PRODUCTION (3)**

Three hours lecture/discussion per week

America is a country of many cultures, and each of these has brought legacies of its roots to the American stage. In this course we will read plays written by Native Americans, Hispanic Americans, Asian Americans, African Americans and others. We will also stage mini-productions of one or more of those plays.

Same as PATH 333

GenEd: C2,C3B,Interdisciplinary

**ENGL 334 NARRATIVES OF SOUTHERN CALIFORNIA (3)**

Three hours lecture/discussion per week

Ours is a region made up of many cultures which produce the one we call Southern California. In this class we will take a historical approach to study of the narratives - oral, written and filmed - of Southern California. Course work may also include obtaining oral histories and compiling them.

Same as HIST 334

GenEd: C2,D,Interdisciplinary



**ENGL 335 AMERICAN ETHNIC IMAGES IN NOVELS, FILM AND ART (3)**

Three hours lecture/discussion per week

Examines the portrayal of ethnic groups from an interdisciplinary perspective that includes, but is not limited to, the literary, historical, and anthropological modes of analysis. The course highlights the ways in which artistic works have shaped the intellectual landscape of the United States as they relate to ethnic peoples.

Same as ART 335, HIST 335

GenEd: C2, C3B, Interdisciplinary

**ENGL 336 MULTICULTURAL LITERATURE AND COMMUNICATION (3)**

Three hours lecture per week

Examines issues of cross-cultural communication in interpersonal and intergroup settings. Works of literature which take cross-cultural communication as a theme will be examined.

Same as COMM 336

GenEd: A1, C2, Interdisciplinary

**ENGL 337 LITERATURE OF THE ENVIRONMENT (3)**

Three hours lecture/discussion per week

Involves the student in many forms of dialogue on issues pertinent to humanity's relationship with Earth. By reading works by writers from diverse fields and by writing in response, the student will gain a better understanding of our planet and its needs. Emphasis will be placed on writing in modes appropriate to the interdisciplinary field of Environmental Science and Resource Management.

GenEd: C2, D, Interdisciplinary

**ENGL 338 SCIENCE AND CONSCIENCE (3)**

Three hours lecture/discussion per week

This course is a team-taught, interdisciplinary course that examines various ethical issues within the sciences using case studies. The scientific, historical and social aspects of each case study will be examined from different perspectives. Students will learn scientific concepts which will facilitate an informed understanding of the ethical issues involved.

Same as PHYS 338

GenEd: B1, C2, Interdisciplinary

**ENGL 339 PSYCHOLOGY AND LITERATURE (3)**

Three hours lecture per week

This course looks at the ways in which human psychology manifests in literature and the ways literature instructs us about human psychology. Through reading, writing about, and discussing texts with particularly rich psychological content, issues related to mental health and the human condition will be explored. The course will also cover some theoretical and technical aspects of psychology relevant to the readings.

Same as PSY 339

GenEd: C2, D, Interdisciplinary

**ENGL 340 BUSINESS AND ECONOMICS IN AMERICAN LITERATURE (3)**

Three hours lecture/discussion per week

Explores the ways in which business and economics have been represented in American literature. Employs critical methodologies from the fields of Business, Economics, and Literary studies.

Same as ECON 340, BUS 340

GenEd: C2, D, Interdisciplinary

**ENGL 349 PERSPECTIVES ON MULTICULTURAL LITERATURE (3)**

Three hours lecture/discussion per week

An introduction to the diversity of American literatures, their unique literary traditions and forms, and what they hold in common. An emphasis on becoming cross-cultural readers and writers aware of how culture influences literature. Formerly ENGL 449, changed Fall 2006.

GenEd: C2, C3B, Interdisciplinary

**ENGL 350 NATIVE AMERICAN LITERATURE (3)**

Three hours lecture/discussion per week

Study of the novels and poetry written by Native American authors. In order to understand the development of the literature, we will also read essays relevant to the events, issues and concerns attending the historical interactions between Native Americans and Euro-Americans in North America. Formerly ENGL 450, changed Fall 2006.

GenEd: C2, C3B

**ENGL 351 AFRICAN/AFRICAN AMERICAN LITERATURE (3)**

Three hours lecture/discussion per week

Study of the novels and poetry written by African American authors. In order to understand the development of the literature, we will also read essays relevant to the events, issues and concerns attending the historical interactions between African Americans and other peoples in North America. Authors writing in African countries may also be included in order to gain a more global perspective on the literature. Formerly ENGL 451, changed Fall 2006.

GenEd: C2, C3B

**ENGL 352 ASIAN/ASIAN AMERICAN LITERATURE (3)**

Three hours lecture/discussion per week

Study of the novels and poetry written by Asian American authors. In order to understand the development of the literature, we will also read essays relevant to the events, issues and concerns attending the historical interactions between Asian Americans and other peoples in North America. Authors writing in Asian countries may also be included in order to gain a more global perspective on the literature. Formerly ENGL 452, changed Fall 2006.

GenEd: C2, C3B

**ENGL 353 CHICANA/O HISPANIC/HISPANIC AMERICAN LITERATURE (3)**

Three hours lecture/discussion per week

Study of the novels and poetry written by Hispanic American authors. In order to understand the development of the literature, we will also read essays relevant to the events, issues and concerns attending the historical interactions between Hispanic/Chicana(o)/Latina(o) Americans and other peoples in North America. Authors writing in Spain, Mexico, Central America or South American countries may also be included to gain a more global perspective on the literature. Formerly ENGL 453, changed Fall 2006. GenEd: C2,C3B

**ENGL 360 PERSPECTIVES IN CREATIVE WRITING (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 330 or consent of the instructor  
Writing intensive with a focus on reading and discussing what others have written about the processes involved in the creative writing endeavor. Guest lectures by published writers, publishers and other experts may be part of the course. Formerly ENGL 460, Changed in May 2006.

**ENGL 378 CONTEMPORARY NATIVE AMERICAN AUTHORS: TELECOURSE (3)**

An introduction to the fiction and poetry produced by contemporary Native Americans. Authors of the works studied join the discussion of their work and concepts important to their work. Modes of discourse and the impact of Native American cultures, concerns and philosophy on the fiction and poetry of these authors are the primary foci of the course. Students will meet with the course instructor three times during the semester; otherwise, students will view the telecourse tapes, read the assigned books, read the essays in the workbook, and do the assigned activities explained in the workbook on their own.

**ENGL 400 CONTEMPORARY LITERATURE (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or ENGL 105 or equivalent and one upper division literature course  
Survey of world trends in literature, possibly including fiction, non-fiction, poetry and/or drama. Specific topics vary from term to term. Repeatable by topic.

**ENGL 410 SHAKESPEARE'S PLAYS (3)**

Three hours lecture per week

Prerequisite: ENGL 103 or ENGL 105 or equivalent and one upper division literature course  
Study of the many aspects of Shakespeare's plays as literature--language, context, form and style--as well as the ways in which these elements work as part of a whole, which includes spoken speech and other sounds as well as physical form and movement.  
Same as PATH 410

**ENGL 412 DRAMA OF ANCIENT GREECE (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or ENGL 105 or equivalent and one upper division literature course

A survey of ancient Greek drama and the culture/society that produced it. The course will examine a representative sample of the major plays. Among the topics considered will be: the tragic and comic festivals, tragedy's relationship with Athenian democracy, the nature of Greek theaters and ancient theatrical production techniques, religion and drama, women and tragedy, tragic and comic heroism, myth and tragedy, and the legacy of Greek tragedy in the modern world.  
Same as PATH 412

**ENGL 420 LITERARY THEORY (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or ENGL 105 or equivalent and one upper division literature course

Survey of literary theory and critical study which investigates various approaches, perspectives, and modes of inquiry. Literary criticism extends beyond literature to intersect with anthropology, philosophy, psychology, linguistics, political science, and other disciplines, critical analysis by literary scholars encompasses all forms of cultural production, literary and non-literary.

**ENGL 430 TRADITION AND TRANSFORMATION: LITERATURE, HISTORY, AND CULTURAL CHANGE (3)**

Three hours lecture per week

Prerequisite: ENGL 103 or ENGL 105 or HIST 280 or consent of the instructor

Bringing literature and history together, this course exposes students to a diverse range of work in art, literature, films, and history. It cultivates the students' intellectual understanding of the topic from both a cross-disciplinary and a cross-cultural perspective. It emphasizes reading, writing, analytical skills, and communication skills. Topics and themes may vary under the same title. Repeatable up to 9 units.

Same as HIST 430

GenEd: C3B,D,Interdisciplinary

**ENGL 431 EUROPEAN RENAISSANCE LITERATURE AND ART (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or ENGL 105 or equivalent  
Examination of the literature and art of the Renaissance of the 15th and 16th centuries in Europe and England, focusing on the re-birth of the human spirit and the legacies of the Renaissance artists and writers.

Same as ART 431

GenEd: C1,C2,Interdisciplinary

**ENGL 432 ARTS OF THE HARLEM RENAISSANCE (3)**

Three hours lecture per week

Prerequisite: Upper division standing

Study focusing on the dramatic upsurge of creativity in art, music and literature resulting from social and political undercurrents in the African American cultural revolution in New York during the 1920s. Historical geneses and subsequent artistic legacies will also be explored.

Same as ART 432, PAMU 432

GenEd: C1, C2, Interdisciplinary

**ENGL 433 GAY/LESBIAN/BISEXUAL/TRANSGENDER STUDIES (3)**

Three hours lecture per week

Prerequisite: English 103 or ENGL 105 or equivalent

Introduction to the field of gay/lesbian/bisexual/transgender studies through the reading of literature and theory.

Same as GEND 433

GenEd: C2, D, Interdisciplinary

**ENGL 444 ORIGINAL PRACTICE IN RENAISSANCE DRAMA (3)**

Three hours lecture per week

In this class, students will learn about the theaters of the Renaissance, the playwrights whose plays were performed in them, and explore the differences that occur when the plays are performed in a venue resembling those of the original Rose, Blackfriars and Globe theaters.

Same as PATH 444

GenEd: C2, Interdisciplinary

**ENGL 454 MULTICULTURAL LITERATURE PROJECT/SEMINAR (3)**

Three hours lecture/discussion per week

Prerequisite: Consent of the instructor and completion of ENGL 449 and 9 units drawn from ENGL 450, ENGL 451, ENGL 452, ENGL 453

As the culmination of the Multicultural Literature Emphasis, the purpose of this independent study course is to produce a significant work in the genre of the student's choice, chosen in consultation with his or her instructor.

**ENGL 456 WOMEN'S FICTION (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 220 or ENGL 250

This course examines the development of contemporary fiction by women and its relationship to men's fiction by men. It compares style and theme across social class and ethnicities, analyzing the historical context of each novel or short story. The course will raise critical questions about a female literary tradition.

**ENGL 461 FICTION WRITING (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 360 or Consent of Instructor

The writing of fiction is the focus of this class. The seminar format allows students the opportunity to talk about their writing and to receive critiques from their peers as well as the instructor.

**ENGL 462 POETRY WRITING (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 460 or consent of the instructor

The writing of poetry is the focus of this class. The seminar format allows students the opportunity to talk about their poetry and to receive critiques from their peers as well as the instructor.

**ENGL 463 WRITING FOR THE STAGE AND SCREEN (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 460 or consent of the instructor

The writing of stage plays and/or screenplays is the focus of this class. The seminar format allows students the opportunity to talk about their writing and to receive critiques from their peers as well as the instructor.

**ENGL 464 CREATIVE NON-FICTION (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 460 or consent of the instructor

The writing of creative non-fiction is the focus of this class. The seminar format allows students the opportunity to talk about their writing and to receive critiques from their peers as well as the instructor.

**ENGL 465 CREATIVE WRITING PROJECT (3)**

Three hours activity per week

Prerequisite: Consent of the instructor and completion of ENGL 449 and 9 units drawn from ENGL 461, ENGL 462, ENGL 463, ENGL 464

As the culmination of the Creative Writing Emphasis, the purpose of this independent study course is to produce a significant work in the genre of the student's choice, chosen in consultation with his or her instructor.

**ENGL 474 APPROACHES TO ENGLISH GRAMMAR (3)**

Three hours lecture per week

Prerequisite: ENGL 315

This course uses various approaches to analyze the form, function, and meaning of English grammar, including alternative ways to understand grammar in the context of real language tasks. Particular attention is paid to cultural and social assumptions about grammar and how they have shaped our attitudes toward language use.

**ENGL 475 LANGUAGE IN SOCIAL CONTEXT (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or ENGL 105 or equivalent or consent of the instructor

Focus is on the nature of literacy, with emphasis on literacy development for English Only (EO) and English Language Learners (ELLs), investigation and knowledge of the development and acquisition of English literacy, and understanding the role of concepts and contexts in word meanings, vocabulary development, and multiple meanings. Also stressed will be differences between English and other languages that impact the acquisition of English literacy by ELLs, the role of primary language literacy in the development of English language among ELLs, and the impact of disabilities on oral and written English language development.

**ENGL 477 ADOLESCENT LITERATURE (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or ENGL 105 and one upper-division literature course

A survey of young adult literature in which students analyze young adult literature taught at the secondary level (grades 6-12). Works studied are selected for their diversity of subject matter, genre, cultural focus, and grade level. Students will engage in literary discussions of the works, analyze them in relation to the genre, and consider implications for adolescents in school and the larger society.

**ENGL 478 WRITING AS REFLECTIVE PRACTICE (3)**

Three hours lecture per week

Prerequisite: ENGL 103 or ENGL 105 and ENGL 330 or Consent of the Instructor

This course will develop awareness of the thinking and learning processes that occur during writing. The focus will be on identifying, planning, and monitoring the thinking processes that develop while writing. This knowledge of process will be used to select and develop strategies that will improve the writing product. Writing will be extensive and will include expository, creative, and reflective genres.

**ENGL 482 TECHNICAL WRITING (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 330

This course is an overview of the field of technical writing. Research, interviewing, and the various forms of technical writing are addressed. Students will produce work in a variety of forms of technical writing.

**ENGL 483 TECHNICAL VISUAL COMMUNICATION (3)**

Three hours lecture/discussion per week

Prerequisite: For Technical Writing Certificate students only, ENGL 482

The focus of this course is two-fold. First, the student will research and write a presentation on a topic of his or her choice, suitable for a specific application (conference, meeting, etc.) and receive critiques from his or her peers and the professor. Second, the student will use that paper to form the basis of a visual presentation using up-to-date technology of various forms.

**ENGL 484 TECHNICAL WRITING FOR THE SCIENCES (3)**

Three hours lecture/discussion per week

Prerequisite: For Technical Writing Certificate students only, ENGL 482

Writing for the Sciences requires a specialized understanding of the process of writing as well as the content of the final essay or article. Students will learn to do research in specialized fields and to write for a variety of scientific journals and other publications.

**ENGL 485 TECHNICAL WRITING PROJECT/SEMINAR (3)**

Three hours activity per week

Prerequisite: ENGL 310, ENGL 330, ENGL 482, ENGL 483, and ENGL 484, and a passing evaluation on the portfolio of work from the prerequisite courses. As the culmination of the Technical Writing certificate program, this course may be an internship, independent study, seminar or a project course. Projects will be devised in consultation with an advisor.

**ENGL 494 INDEPENDENT STUDY/SENIOR RESEARCH (3)**

Three hours activity per week

Prerequisite: Senior standing and consent of the instructor

Students may do an independent study to further coursework begun in other courses, obtain an internship which utilizes knowledge gained thus far, or do research in preparation for the senior project.

**ENGL 499 CAPSTONE PROJECT/SENIOR SEMINAR (3)**

Three hours lecture/discussion per week

Prerequisite: Senior standing, a passing evaluation of the cumulative portfolio, and Consent of the Instructor

This course maybe an interdisciplinary experience in which students work may teams, contributing their expertise to a community-based group project.





## ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT

### ESRM 100 INTRODUCTION TO ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT (3)

Three hours lecture per week

This course covers a broad spectrum of environmental science topics including: biogeochemical cycles, biological diversity, world food supply, effects of agricultural production on the environment, energy, water and air environments, and societies' impacts on the environment. Current environmental issues such as loss of biological diversity, global climate change, ozone depletion, and natural resource management will be discussed.

GenEd: B2,D

### ESRM 200 PRINCIPLES OF RESOURCE MANAGEMENT, CONSERVATION & STEWARDSHIP (3)

Two hours lecture and two hours activity per week

Prerequisites: ESRM 100 and BIOL 200

Students will work with the National Park Service, U.S. Geological Survey or other agencies on related resource projects. Lab fee required.

### ESRM 313 CONSERVATION BIOLOGY (4)

Three hours lecture and three hours laboratory per week

Prerequisite: BIOL 200

This course explores issues surrounding the conservation of biodiversity. Topics to be covered include: species-, population-, and ecosystem-level issues, biodiversity, extinction, sustained yield, exotic species, and reserve design. Management implications and the ecology of issues are integrated throughout the course. Lab fee required.

Same as BIOL 313

### ESRM 328 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (3)

Two hours lecture and three hour laboratory per week

Prerequisite: ESRM 100 or consent of the instructor

Introduction to fundamental concepts and techniques of geographic information systems, including the collection, manipulation, analysis, interpretation, display, and communication of spatial information for environmental decision making. Lab fee required.

### ESRM 329 ENVIRONMENTAL LAW AND POLICY (3)

Three hours lecture per week

Prerequisite: ESRM 100 or consent of the instructor

The purpose of this course is to introduce the fundamental concepts of environmental law and policy and familiarize students with the various types of legal mechanisms used to protect the environment. A practical grounding in the basic legal concepts central to environmental law and how laws have been applied at the local, state, national, and international level will be gained. Students will also explore the purpose and function of some of the larger environmental institutions and their relationships with the public, business, and the environmental community.

### ESRM 332 HUMAN ECOLOGY (3)

Three hours lecture per week

This human ecology course places humans into the environment in historical and global contexts.

Discusses systems theory as it applies to human adaptation to the environment. Studies the relations among political power, ideology, and resources, integrating concepts from ecology with those from social sciences. Theories and forecasts of human population growth and migration among regions and cultures. Social and environmental impacts of population and age distribution. Natural resource constraints on growth. Topics from land development, resource planning, environmental quality, politics, economic growth, conflicts and wars.

Same as ANTH 332

GenEd: D,Interdisciplinary

### ESRM 340 POLITICS AND THE ENVIRONMENT (3)

Three hours lecture per week

Exploration of environmental politics in both the international and domestic contexts.

GenEd: Interdisciplinary

Same as POLS 340

GenEd: D,Interdisciplinary

### ESRM 342 ENVIRONMENTAL HISTORY (3)

Three hours lecture per week

Examines the historical interaction between humans and their environment. Special attention will be paid to the transformations of environments in the Americas and Europe.

Same as HIST 342

GenEd: D,Interdisciplinary

### ESRM 350 ECOLOGICAL RESTORATION DESIGN AND CONSTRUCTION (4)

Two hours lecture and six hours laboratory per week

Prerequisites: ESRM 352

Introduction to environmental engineering. Students will partake in the planning and construction of ecological restoration projects in Santa Barbara, Ventura, and/or Los Angeles Counties. Particular projects will expose students to construction procedures and techniques central to the restoration of riparian, wetland, and terrestrial communities. Lab fee required.

### ESRM 351 FIELD METHODS: MONITORING AND ASSESSMENT (4)

Two hours lecture and six hours laboratory per week

Prerequisite: ESRM 313

Examines a wide range of field assessment methods useful for a variety of environmental characterization efforts such as range of transect, time constraint, trapping, and continuous sampling methodologies. Emphasizes practical skills development with students collecting field data and conducting subsequent analyses and assessment. Lab fee required.

**ESRM 352 THEORY AND PRACTICE OF ECOLOGICAL RESTORATION (3)**

Three hours lecture per week

Introduces the theory and practice of modern ecological restoration. Conceptual similarities in the approach to wetland, riparian, forest, grassland, and subtidal restoration efforts will be explored. Special attention will be given to failed restoration efforts, articulating the conditions leading to such failures, and minimum performance standards for successful projects.

**ESRM 410 ENVIRONMENTAL IMPACT ASSESSMENT (3)**

Three hours lecture per week

Prerequisite: BIOL 433, ECON 362, ESRM 328 and ESRM 329

This course will introduce students to methods and procedures designed to assess and minimize human impacts on natural systems. Topics to be covered include the components of environmental impact reports and assessments, and the processes involved in preparation and approval. Also addressed will be the issues related to mitigating environmental impacts.

**ESRM 440 POPULATION STUDIES (3)**

Three hours lecture per week

Prerequisites: SOC 100 and MATH 202

This course focuses on the basic concepts, skills and issues in demography and population studies. It will apply concepts to contemporary population issues such as family demography, urban transition, environmental degradation, and economic development.

Same as SOC 440

GenEd: D, Interdisciplinary

**ESRM 443 ENVIRONMENTAL COMMUNICATION (3)**

Three hours lecture per week

Prerequisite: ESRM 100 and COMM 101 or COMM 320

Students will analyze and engage in debates about local, national and global environmental disputes. Topics include analysis of risk, community dialogue and strategic environmental messages.

Same as COMM 443

**ESRM 462 COASTAL AND MARINE RESOURCE MANAGEMENT (4)**

Three hours lecture and two hours activity per week

Prerequisite: BIOL 433, ESRM 200 and ESRM 329

Provides an introduction to marine provinces, physical and biological oceanography, threats to the marine environment across various temporal and spatial scales and various policies and programs to improve resource management.

**ESRM 463 WATER RESOURCES MANAGEMENT (4)**

Five hours lecture and two hours activity per week

Prerequisite: BIOL 433, ESRM 200, and ESRM 329

Water management principles focusing on surface and ground water hydrology; water conservation, watershed development; water quality measurement and monitoring; water and wildlife/fisheries; and water conflicts.

**ESRM 464 LAND USE PLANNING AND OPEN SPACE MANAGEMENT (4)**

Three hours lecture and two hours activity per week

Prerequisite: BIOL 433, ESRM 200 and ESRM 329

Examines various approaches to land use planning at the municipal, state, national, and international level focusing on the role of land use planning in managing open space and protected area lands within and adjacent to urban areas.

**ESRM 481 TOPICS IN ENVIRONMENTAL POLLUTION (3)**

Three hours seminar per week

Prerequisite: BIOL 433 and 432, CHEM 250 and 251

Topics may include: analysis of pollution transformation and transport; impacts on human and natural systems; and examples from tropospheric air pollution, water pollution, soil pollution, climate change.

**ESRM 482 ISSUES IN ENVIRONMENTAL PLANNING AND RESOURCE MANAGEMENT (3)**

Three hours seminar per week

Prerequisite: BIOL 433, ECON 362 and ESRM 329

Selected issues in resource development derived from current resource policy changes, or other emerging topics of interest.

**ESRM 483 ISSUES IN GLOBAL RESOURCE MANAGEMENT (3)**

Three hours seminar per week

Prerequisite: BIOL 433, ECON 362 and ESRM 329

Selected issues in global resource management. Topics may include climate change, ocean management, desertification, air pollution, ozone depletion, patterns of consumption, water pollution, water allocation, international policy or legislative instruments, or other topics as appropriate.

**ESRM 490 SPECIAL TOPICS (3)**

Three hours seminar per week

Prerequisite: Consent of the instructor

In-depth analysis of current topics in environmental science and resource management. Topics vary each semester.

**ESRM 491 CAPSTONE PREPARATION (1)**

One hours activity per week

Prerequisite: Senior standing in the Environmental Science and Resource Management major

Research and develop a proposal for an ESRM project.

**ESRM 492 SERVICE LEARNING/INTERNSHIP (3)**

Six hours per week

Prerequisite: Consent of the instructor

Individual internship through service learning.

Graded Credit/No Credit

**ESRM 494 INDEPENDENT RESEARCH (1-3)**

Variable hours per week

Prerequisite: Consent of instructor

Individual research on topic selected by the student and faculty mentor. Repeatable for up to nine units.

Graded Credit/No Credit

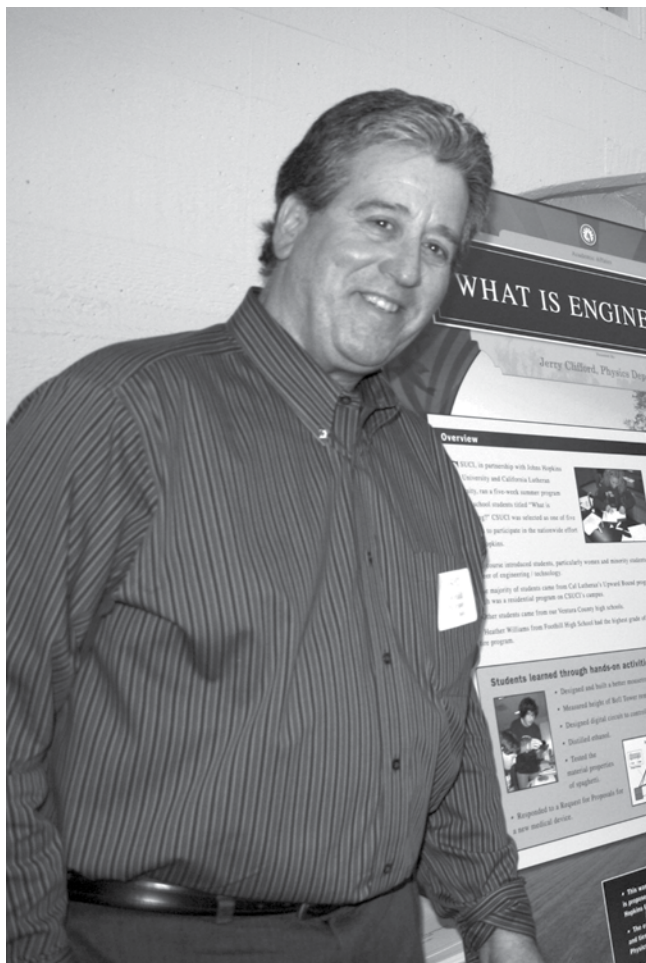
**ESRM 499 CAPSTONE (3)**

Three hours of lecture / discussion per week

Prerequisite: Upper division required courses in ESRM major (may be completed concurrently)

This course consists of an interdisciplinary evaluation of the physical, biological, social, economic, and legal dimensions of environmental decision-making.

The instructor will select from Southern California ecosystems - and decisions with associated environmental impacts - for evaluation and analysis. Topics include decisions to reduce, control, or treat surface water run-off, establishing or changing the management of marine protected areas, dredging in harbors, and permits for coastal development. Students will provide results to appropriate national, state, or local agencies for consideration and deliberation in administrative decisions.

**FINANCE****FIN 300 BUSINESS FINANCE (3)**

Three hours lecture per week

Prerequisite: ACCT 220, MATH 140 or MATH 150

Principles of planning, procuring, controlling short term and long-term financial resources of business organizations. Topics include cash and capital budgeting, debt and equity markets, security evaluations, cost and structure of capital.

**FIN 321 PUBLIC BUDGETING (3)**

Three hours lecture per week

Examines the major concepts of public budgeting and finance in the United States. Key topics of study include: expenditure estimation, revenue forecasting, capital budgeting, budget reform and financial management. The politics that characterizes the budgetary process will be emphasized throughout.

Same as POLS 321

**FIN 343 CAPITAL THEORY (3)**

Three hours lecture per week

Intertemporal choice and decision-making under uncertainty in our financial lives. Topics include: multi-period consumption, multi-period production, capital budgeting, modern portfolio theory and financial management.

Same as ECON 343

GenEd: D, Interdisciplinary

**FIN 410 FINANCIAL MARKETS & INSTITUTIONS (3)**

Three hours lecture per week

Prerequisite: FIN 300

Gives a broad knowledge of operations, mechanics, and structure of the U.S financial system. Provides an in-depth discussion of key topics critical to financial management.

**FIN 411 CORPORATE FINANCE MANAGEMENT (3)**

Three hours lecture per week

Prerequisite: FIN 300

Provide an in-depth knowledge of key concepts and theoretical principles of modern corporate finance, including analytical tools necessary for managerial decision making.

**FIN 412 INTERNATIONAL FINANCIAL MANAGEMENT (3)**

Three hours lecture per week

Prerequisite: FIN 300

Introduction to the multinational financial environment and management. Focuses on foreign exchange markets, foreign exchange risk management, international working capital management, foreign investment analysis, international capital budgeting, international diversification, cost of capital and capital structure of the multinational firm and political risk management.



**FIN 413 INVESTMENT ANALYSIS (3)**  
**THREE HOURS LECTURE PER WEEK**

Prerequisite: FIN 300

Introduction to different investment strategies along with the securities available to the investor. Institutional features such as types of markets, market indicators, investment banking, types of orders and securities markets regulation are covered.

**FIN 421 PUBLIC FINANCIAL MANAGEMENT (3)**

Three hours lecture per week

Prerequisite: FIN 300

Examines principles, methods and concepts of financial management used in non-profit sector. Disciplines of accounting, budgeting, operations control, auditing and management are integrated into comprehensive financial systems. Theoretical design and practical implementation issues are explored.

**FIN 490 SPECIAL TOPICS (3)**

Three hours seminar per week

Prerequisite: Consent of instructor

In-depth analysis of current topics in finance. Topics vary each semester

**FIN 492 SERVICE LEARNING/INTERNSHIP (3)**

Six hours per week

Prerequisite: Consent of the instructor

Individual internship through service learning.

Graded Credit/No Credit

**FIN 497 DIRECTED STUDY (1-3)**

Variable hours per week

Prerequisite: Consent of the instructor

Individual contracted study on topics or research selected by the student and faculty mentor.

Graded Credit/No Credit

**GENDER STUDIES****GEND 433 GAY/LESBIAN/BISEXUAL/  
TRANSGENDER STUDIES (3)**

Three hours lecture per week

Prerequisite: English 103 or ENGL 105 or equivalent

Introduction to the field of gay/lesbian/bisexual/transgender studies through the reading of literature and theory.

Same as ENGL 433

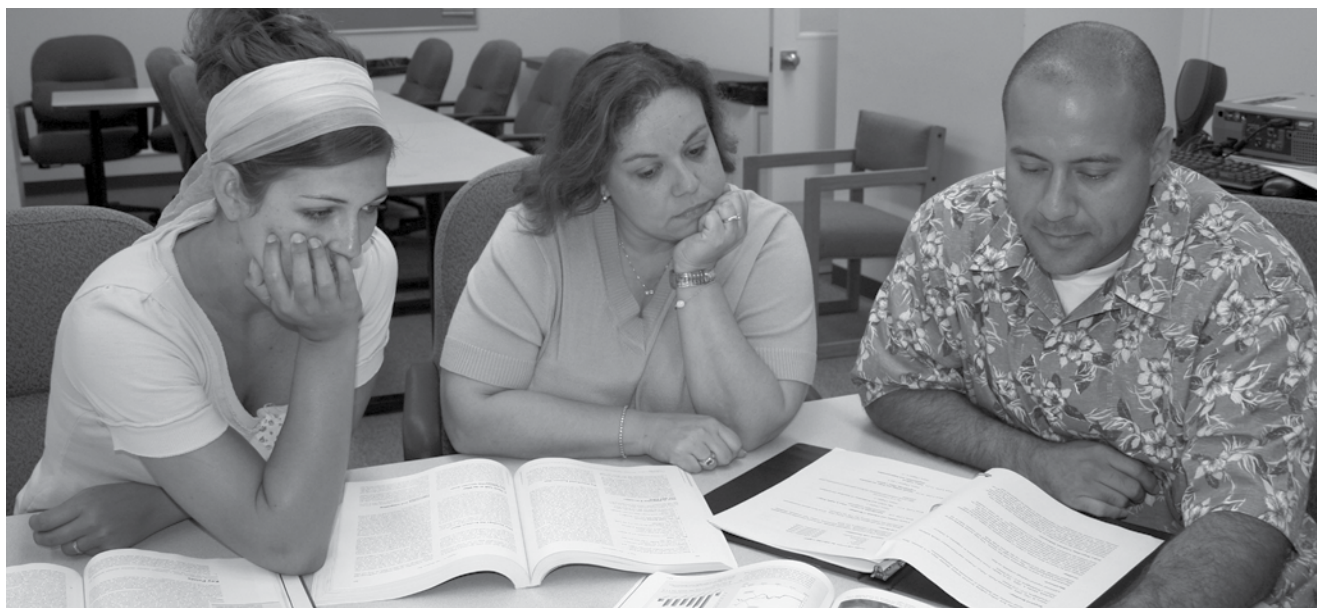
GenEd: C2,D,Interdisciplinary

**GEOGRAPHY****GEOG 201 CULTURE AND HISTORICAL GEOGRAPHY  
OF THE WORLD (3)**

Three hour lecture per week

A geographic study of the world and the basic relationship between the Physical environment including topography, climate, natural vegetation, soils, and drainage patterns etc. and including the cultural aspects (political, social, economic, urban, and rural life etc.) within the major realms or regions of the world, with a detailed study of some selected regions.

GenEd: D





## GEOLOGY

### GEOL 121 PHYSICAL GEOLOGY (4)

Three hours lecture per week and three hours laboratory per week

This course examines the basic composition of the Earth and the dynamic forces which have altered the Earth's surface through time, including sedimentation, erosion, volcanism, earthquakes, plate tectonics, and mountain-building. Students will understand the immense processes affecting their environment.

GenEd: B1

### GEOL 122 HISTORICAL GEOLOGY (3)

Three hours lecture per week

This course focuses upon the geological history of the Earth and the Solar System from the origin of the cosmos to the present, tracing the evolution of the continents and ocean basins, and the evolution of plants and animals through time. Surveys events in Earth's past of relevance to present environmental issues.

GenEd: B1

### GEOL 300 FOUNDATIONS OF EARTH SCIENCE (4)

Three hours lecture and three hours laboratory per week  
Prerequisite: PHSC 170

Principles of geology, hydrology, oceanography, meteorology, and astronomy for the elementary school teacher.

### GEOL 321 ENVIRONMENTAL GEOLOGY (4)

Three hours lecture and three hours laboratory per week

Interrelationships between human and natural geologic hazards: tsunamis, earthquakes, landslides, subsidence, volcanoes. Explores environmental impact of resource extraction and usage, the importance of understanding the geologic processes and landscape in land use planning, and the means of using geology to minimize conflicts in resource management and disaster preparation.

GenEd: B1



## HISTORY

### HIST 211 WORLD CIVILIZATIONS: ORIGINS TO 1500 (3)

Three hours lecture per week

This survey examines world civilizations from the Neolithic era to the European colonization of the Western Hemisphere. Topics may include, but are not limited to, the development and growth of religions, commerce, and other cultural institutions.

GenEd: D

### HIST 212 WORLD CIVILIZATIONS: SINCE 1500 (3)

Three hours lecture per week

This survey examines world civilizations from both regional and global perspectives. Topics may include, but are not limited to, the development and growth of religions, commerce, and other cultural institutions.

GenEd: D

### HIST 270 THE UNITED STATES TO 1877 (3)

Three hours lecture per week

Survey of the political, social, economic as well as cultural institutions of the United States from the pre-colonial era to reconstruction. Meets Title V U.S. History and Constitution requirement

### HIST 271 THE UNITED STATES SINCE 1877 (3)

Three hours lecture per week

Survey of the political, social, economic as well as cultural institutions of the United States from reconstruction to the present. Meets Title V U.S. History and Constitution requirement.

### HIST 272 CONSTITUTIONAL HISTORY OF THE U.S. (3)

Three hours lecture per week

Examines the origins of American constitutional thought and practice, the framing and adoption of the Constitution and the Bill of Rights, the establishment of the U.S. Supreme Court and of its power of judicial review. Topics include: major decisions by the Supreme Court in history and their impacts on society, and California state constitution and government. Meets Title V U.S. History and Constitution Requirement.

### HIST 275 THE UNITED STATES TO 1900 (3)

Three hours lecture per week

This course is specially designed for students in the Teaching and Learning Student Option of the Liberal Studies Program. Examines the history of the United States from the colonial origins to the emergence of a modern industrial system. Emphasis is given to the major social, political, and cultural events during the period from the early 1600s to 1900, such as the encounters between Native Americans and European explorers, the growth of English colonies, the American Revolution, the transformation of American society after Independence, slavery, abolition, the Civil War, and the development of mass immigration and industrialization. Meets Title V U.S. History and Constitution Requirement.

**HIST 280 THE HISTORIAN'S CRAFT (3)**

Three hours lecture per week

Prerequisite: Sophomore Standing or consent of the instructor

This is a survey course on the writing of history. Utilizes and analyzes library resources, oral interviews, and other material in the writing of history.

GenEd: D

**HIST 310 HISTORY OF THE MEDITERRANEAN (3)**

Three hours lecture per week

Examines the history of the Mediterranean over the last 3000 years. Special attention will be paid to the Greco-Roman heritage, the impact of Christianity and Islam, the rise of Italian merchants, and the tangle between Spain and the Ottoman Empire over the control of the sea.

**HIST 319 EUROPEAN HISTORY, 1871-1945 (3)**

Three hours lecture per week

Examines the development of European history from the unification of Germany to the end of the Second World War. Special attention will be paid to the development of powerful ideologies (e.g., communism, fascism), socio-economic change, and imperial expansion.

**HIST 320 EUROPEAN HISTORY, 1945-PRESENT (3)**

Three hours lecture per week

Examines the development of European history to the present day. Special attention will be paid to the reconstruction of the continent following the war, the implications of the cold war and the collapse of the Soviet Union, and the emergence of the European Union.

**HIST 330 THE HISTORY OF SCIENCE: NONWESTERN ORIGINS AND THE WESTERN REVOLUTION (3)**

Three hours lecture per week

A survey of scientific history from 2000 BCE to the present that considers science as a set of made, lost and found ideas and technologies. Fields of inquiry are examined by tracing their historical and cultural trajectories through the African, Arab, Babylonian, Chinese, Egyptian, Greek, Indian, Incan, Japanese, Mayan and Sumerian worlds.

Same as CHEM 330

GenEd: B1, Interdisciplinary

**HIST 331 NARRATIVES OF THE WORKING CLASS (3)**

Three hours lecture per week

Examines the lives of working people using various thematic approaches and disciplinary methodologies. Materials include literature, film, and case studies.

Same as ECON 331, ENGL 331, SOC 331, POLS 331

GenEd: C2,D,Interdisciplinary

**HIST 333 HISTORY OF SOUTHERN CALIFORNIA CHICANA/O ART (3)**

Three hours lecture per week

An exploration of the Southern California Chicano/a culture focusing on the genesis, vitality and diversity represented in the painting, sculpture and artistic traditions of Mexican American artists. Historical movements, politics, cultural trends and Mexican folklore underlying the development of this dynamic style of art will be investigated within a variety of contexts.

Same as ART 333

GenEd: C3B,D,Interdisciplinary

**HIST 334 NARRATIVES OF SOUTHERN CALIFORNIA (3)**

Three hours lecture/discussion per week

Ours is a region made up of many cultures which produce the one we call Southern California. In this class we will take a historical approach to study of the narratives - oral, written and filmed - of Southern California. Course work may also include obtaining oral histories and compiling them.

Same as ENGL 334

GenEd: C2,D,Interdisciplinary

**HIST 335 AMERICAN ETHNIC IMAGES IN NOVELS, FILM AND ART (3)**

Three hours lecture/discussion per week

Examines the portrayal of ethnic groups from an interdisciplinary perspective that includes, but is not limited to, the literary, historical, and anthropological modes of analysis. The course highlights the ways in which artistic works have shaped the intellectual landscape of the United States as they relate to ethnic peoples.

Same as ART 335, ENGL 335

GenEd: C2,C3B,Interdisciplinary

**HIST 338 THEATRE IN HISTORY (3)**

Three hours lecture per week

A survey of the history of theatrical productions. Includes formal productions and performances as well as other types of theatre or dramatization such as political posturing, i.e. Caesar's entrance into Rome in historical reality as well as performed or recorded later in theatre, music, and history.

Same as PA 338

GenEd: C1,D,Interdisciplinary

**HIST 340 HISTORY AND PSYCHOLOGY OF NAZI GERMANY (3)**

Three hours lecture per week

Prerequisite: Upper Division standing

Examines the historical and psychological roots of the Nazi movement in Germany. Areas covered will include the mass psychology of fascism, the psychopathology of Nazi leaders, and the psychological impact of the holocaust.

Same as PSY 340

GenEd: D,E,Interdisciplinary

**HIST 342 ENVIRONMENTAL HISTORY (3)**

Three hours lecture per week

Examines the historical interaction between humans and their environment. Special attention will be paid to the transformations of environments in the Americas and Europe.

Same as ESRM 342

GenEd: D,Interdisciplinary

**HIST 349 HISTORY OF BUSINESS AND ECONOMICS IN NORTH AMERICA (3)**

Three hours of lecture per week

Examines the growth and development of the economies of North America since colonial times. Addresses social, ethical, economic and management issues during the development of Canada, the United States, and Mexico. Analyzes the business principles underlying the growth and development of the economies.

Same as ECON 349, BUS 349

GenEd: D,Interdisciplinary

**HIST 350 CHICANO HISTORY AND CULTURE (3)**

Three hours lecture per week

Examines the settlement and culture of Mexicanos in the United States to the present. Particular attention is given to the relationship of Mexicanos to the political and economic institutions of the United States.

**HIST 360 HISTORY OF COLONIAL LATIN AMERICA (3)**

Three hours lecture per week

Examines the social, political, economic and cultural foundations of colonial Latin America from the Conquest in the fifteenth century to independence in the early nineteenth century.

**HIST 361 HISTORY OF MODERN LATIN AMERICA (3)**

Three hours lecture per week

Examines the social, political, economic and cultural foundations of modern Latin America in countries in the nineteenth and twentieth centuries.

**HIST 365 THEMES IN WORLD HISTORY (3)**

Three hours lecture per week

Explores the major trends in global approaches to history. These include anthropological, diaspora, environmental, and world systems approaches.

GenEd: D

**HIST 366 OCEANS OF WORLD HISTORY (3)**

Three hours lecture per week

Discusses the main approaches to world history through the lens of the Earth's three major oceans: Atlantic, Indian, and Pacific.

**HIST 369 CALIFORNIA HISTORY AND CULTURE (3)**

Three hours lecture per week

Examines the cultural and institutional development of California prior to the 16th century and since.

**HIST 372 UNITED STATES INDUSTRIALIZATION AND PROGRESSIVISM (3)**

Three hours lecture per week

Examines the nation's geographic and industrial expansion. Social and political problems up to the end of WWI will also be examined.

**HIST 373 AMERICAN LABOR HISTORY (3)**

Three hours lecture per week

This is an in-depth study of the individual, group, and organized experience of the American working people from colonial time to the twentieth century.

**HIST 374 UNITED STATES SINCE 1945 (3)**

Three hours lecture per week

Examines the cultural, social, and political transformation of the nation after World War II. Among the various topics of the course, specific attention is given to how international affairs influenced domestic life and society.

**HIST 380 HISTORY OF THE PACIFIC ISLANDS (3)**

Three hours lecture per week

Examines the history of the Pacific from human settlement to the present. Special attention will be paid to cross-cultural encounters, religious conversion, imperialism, and post-colonial realities in the region. The course employs interdisciplinary methods borrowed from anthropology, archaeology, and linguistics.

**HIST 391 TRADITIONAL CHINA (3)**

Three hours lecture per week

This course studies the social, political, economic, and cultural traditions in China from ancient times to the end of the Ming Dynasty.

**HIST 392 MODERN CHINA (3)**

Three hours lecture per week

This course explores the social, political, economic, and cultural changes in China from to the rise of the Ch'ing Dynasty to 1949.

**HIST 393 CONTEMPORARY CHINA (3)**

Three hours lecture per week

This course examines the social, political, economic, and cultural developments in China since 1949.

**HIST 394 TRADITIONAL JAPAN (3)**

Three hours lecture per week

This course studies the social, political, economic, and cultural traditions in Japan from ancient times to the fall of the Tokugawa regime.

**HIST 395 MODERN JAPAN (3)**

Three hours lecture per week

This course studies the social, political, economic, and cultural changes in Japan from the Meiji Restoration to the present.



**HIST 396 EAST ASIA: THEN AND NOW (3)**

Three hours lecture per week

This course examines of the social, political, economic, and cultural foundations in China, Korea, and Japan. Emphasis is given to the profound political, economic, and other transformations taking place in these countries in the twentieth century.

**HIST 401 UNITED STATES IMMIGRATION HISTORY, 1840-1945 (3)**

Three hours lecture per week

Examines the experiences and contributions of immigrant groups in the United States. Constitutional, political, and social considerations of United States immigration history frame the content study of this course.

**HIST 402 SOUTHERN CALIFORNIA CHICANA/O HISTORY AND CULTURE (3)**

Three hours lecture per week

Examines the cultural, economic, political, and social experience of Mexicanas/os of the region from the U.S conquest to the 1990s. Particular attention is given to the interactions of this community with other ethnic and racial groups. Although designed within the disciplinary framework of history, the course utilizes literature, film, and art as mediums of learning about the culture and history of Chicanas/os.

GenEd: D

**HIST 403 THE AMERICAN INTELLECTUAL TRADITION (3)**

Three hours lecture per week

This course explores American thought from Puritanism, transcendentalism, and pragmatism to contemporary trends represented in thinkers from Richard Mather, Jonathan Edwards, Ralph Emerson, William James, and John Dewey to Reinhold Niebuhr. It also addresses those dissenting voices resonantly expressed in American life from Ann Hutchinson, Roger Williams, Henry David Thoreau, Frederick Douglass, Susan B. Anthony, and W. E. B. Du Bois to Martin Luther King, Jr.

**HIST 412 LAW AND SOCIETY (3)**

Three hours lecture per week

Prerequisite: ENGL 330

This course investigates a wide range of issues including, but not limited to, the origins of the law in classical civilizations, the interplays between/among law, religion, government, and morality, evolutions of diverse legal systems in different societies and traditions, legal and ethical challenges of modern sciences, the rule of law in an international environment, and the debate over the extent and limits of the laws in coping with social and technological problems of modern life.

GenEd: D

**HIST 413 WORLD RELIGIONS AND CLASSICAL PHILOSOPHIES (3)**

Three hours lecture per week

Prerequisite: ENGL 330

This course studies and compares some major religions and philosophical schools in the ancient world. It examines how different societies and peoples have formed their basic assumptions concerning the universe, faith, human nature and society, and how those fundamental assumptions have affected their chosen modes of thinking, ways of life, organizations of society, forms of government, and approaches to knowledge.

GenEd: D

**HIST 414 WOMEN IN HISTORY (3)**

Three hours lecture per week

This course examines the role of women and gender in human experience. Topics may vary. They include, but are not limited to, gender and work, gender and religion, gender in literature, gender and race, gender and sexuality, gender and family, and gender and social change.

**HIST 415 SOCIETY AND RADICALISM (3)**

Three hours lecture per week

This course studies the emergence of different styles of protests and radicalism in the modern world. Topics include, but are not limited to, radical thinkers, theories, philosophies, organizations, strategies, movements, as well as the roles and influences they had in society.

**HIST 420 HISTORY OF MEXICO (3)**

Three hours lecture per week

Examines the social and political history of Mexico from the period of European contact to the present. The modern phase of Mexico's history is examined in relation to the overall development of North America.

**HIST 421 REVOLUTIONARY MEXICO, 1876-1930 (3)**

Three hours lecture per week

Evaluates the social and political causes and consequences of the Mexican Revolution. Particular attention is also given to the influence and intervention of the United States of America in Mexico's economic and domestic affairs.

**HIST 430 TRADITION AND TRANSFORMATION: LITERATURE, HISTORY, AND CULTURAL CHANGE (3)**

Three hours lecture per week

Prerequisite: ENGL 103 or ENGL 105 or HIST 280 or consent of the instructor

Bringing literature and history together, this course exposes students to a diverse range of work in art, literature, films, and history. It cultivates the students' intellectual understanding of the topic from both a cross-disciplinary and a cross-cultural perspective. It emphasizes reading, writing, analytical skills, and communication skills. Topics and themes may vary under the same title. Repeatable up to 9 units.

Same as ENGL 430

GenEd: C3B,D,Interdisciplinary



**HIST 436 PSYCHOLOGY AND HISTORY OF EAST ASIAN WARRIOR CULTURES (3)**

Three hours lecture per week

Prerequisite: Upper division standing or consent of the instructor

Examines the psychological and historical roots of warrior cultures in East Asia. Characteristics such as duty, enlightenment, honor, loyalty, and discipline will be examined in the context of the individual and group psychology of warrior cultures throughout history. Psychological and historical conceptions of violence, aggression, and strategy will also be explored. Students will be encouraged to relate values derived from Asian warrior cultures to their own lives, while reflecting on the applicability of these ideas to modern life.

Same as PSY 436

GenEd: D,E,Interdisciplinary

**HIST 442 THE AFRICAN DIASPORA (3)**

Three hours lecture per week

Examines the dispersal of Africans to other continents over the last two thousand years. Special attention will be paid to the African slave trade, identity formation, and nationalism. The course employs interdisciplinary methods borrowed from anthropology, art history, linguistics, and literature.

Same as ANTH 442

GenEd: D,Interdisciplinary

**HIST 445 CHICANO CHILD AND ADOLESCENT (4)**

Three hours lecture and two hours service learning per week

Examines the socio-cultural experiences and historical political realities pertinent to the daily lives of Chicano, Mexican-origin, and/or Latino children and adolescents. Focus is on historical periods, events, and policies affecting youth populations, its demography, migration and immigration patterns. Consideration of contemporary issues and effective educational and cultural practices will be used as a resource for teacher knowledge and pertinent classroom projects. Field study requirement involves working in a child-centered setting or related service project.

Same as EDUC 445

GenEd: C3B,D,Interdisciplinary

**HIST 470 PEOPLE AND EVERYDAY LIFE IN EARLY AMERICA (3)**

Three hours lecture per week

The course focuses on those ordinary men and women whose daily works and activities made what American society was. It covers the time span from the 1600s to the early 1800s. Topics include, but not limited to, popular religion, work ethics and labor systems, family and marriage, festivities, leisure, and games, law and order, mass-control policies, crime and punishment, trades, craftsmanship, farming and industries, issues of gender, race, and ethnicities, early popular unrest, collective actions, and protests.

**HIST 490 SPECIAL TOPICS (3)**

Three hours lecture per week

Investigates a prominent topic of historical interest. Topics vary by semester. Repeatable by topic.

**HIST 491 HISTORIOGRAPHY (3)**

Three hours lecture per week

Prerequisite: HIST 280, Senior Standing, or consent of the instructor

This course surveys major historians and their theoretical and methodological approaches to the discipline from the nineteenth century to the present day. The course is designed to update students to the most influential theories in the study of history. Included in this survey are theoretical approaches based on the writings of Braudel, Foucault, Freud, and Marx.

**HIST 492 INTERNSHIP/SERVICE LEARNING (1-3)**

Provides students with 'hands-on' experience and/or Service Learning opportunities in the historical field.

Student Option: Graded or CR/NCR

**HIST 494 INDEPENDENT RESEARCH (1-3)**

Prerequisite: Junior Standing and Consent of the Instructor

Independent reading and/or research project under the direction of a faculty member. Repeatable.

Student Option: Graded or CR/NCR

**HIST 497 DIRECTED STUDIES (1-3)**

Prerequisite: Junior Standing and consent of the instructor

Exploring an important historical topic under the direction of a faculty member. Significant written reports expected. Topics vary and repeatable.

Student Option: Graded or CR/NCR

**HIST 499 CAPSTONE IN HISTORY (1-3)**

Under the supervision of a faculty advisor, students complete a project approved by the faculty advisor which will integrate prior course work with the general expectations of the Program. Completed projects may be disseminated to the campus community.

Student Option: Graded or CR/NCR

## HEALTH

### HLTH 322 HEALTH ISSUES IN EDUCATION (2)

Two hours lecture per week

Survey of school health programs with in-depth study of selected health education curricula and topic areas, including alcohol, tobacco, drugs, communicable diseases and nutrition. Development of strategies and methods for teaching controversial areas.

GenEd: E

### HLTH 434 INTRODUCTION TO BIOMEDICAL IMAGING (4)

Three hours lecture and two hours lab activity per week

Prerequisite: BIOL 210 or PHYS 200

The course will present an overview of biomedical images and imaging systems. The fundamental concepts used in several imaging modalities (such as projection radiography, mammography, DEXA, computed tomography, ultrasonography and magnetic resonance imaging) will be examined: the emphasis will be on an intuitive and descriptive presentation of the main components of these systems. Image formation and reconstruction will be addressed. The resulting clinical images will be correlated with the underlying structure and function of the organs, and the diagnostic utility and limitations of the images will be considered.

Same as PHYS 434, BIOL 434

GenEd: B1, E, Interdisciplinary



## INFORMATION TECHNOLOGY

### IT 151 DATA STRUCTURES FOR IT (3)

Three hours of lecture in the lab per week

Prerequisites: COMP 150 or equivalent

Introduction to data structures and the algorithms that use them. Review of composite data types such as arrays, records, strings and sets. Topics include: abstract data types, stacks, queues, linked lists, trees and graphs, recursion, and time complexity. No credit given towards Computer Science Degree.

### IT 262 COMPUTER ORGANIZATION AND ARCHITECTURE FOR IT (3)

Three hours of lecture per week

Prerequisites: COMP 162

Overview of main system components: CPU, main memory, secondary memory, input/output. Data representation. Digital logic. PC Architecture. CISC and RISC. RAM and cache memories. Disks and RAID. Instruction set design. Input/Output and bus technology. Other architectures. Benchmarking. Trends in computer architecture.

### IT 280 WEB PROGRAMMING (3)

Three hours lecture in the lab per week

Prerequisites: IT 151 and MATH 300

This course provides an overview of the many languages and techniques used in web programming. This includes Java, JavaScript, PHP, Python, Perl, JSP and ASP, as well as database query languages and XML. Sample applications are built for dynamic web pages and web sites. No credit given towards Computer Science degree.

### IT 362 OPERATING SYSTEMS FOR IT (3)

Three hours of lecture per week

Prerequisites: IT 262

Examination of the principal types of operating systems including batch, multi-programming, and time-sharing. Networked systems are also discussed. The salient problems associated with implementing systems are considered including interrupt or event driven systems, multi-tasking, storage and data base management, and input-output. Role and tasks of system administrator. System management tools. Case analysis of systems such as DOS/Windows, Linux/Unix, VMS. Projects will be implemented to reinforce the lectures.

### IT 400 ECOMMERCE (3)

Three hours of lecture in the lab per week

Prerequisites: IT 280 and 420

Fundamentals of database driven web sites. Online accounts, cookies, shopping carts, data collection and storage, and data security. Covers user interface design, navigation and site search strategies and database support.

**IT 401 WEB INTELLIGENCE (3)**

Three hours of lecture in the lab per week

Prerequisites: IT 402

Using web programming to extract information, using intelligent search engines, artificial intelligence techniques (expert systems, agents). Topics include: data mining, data warehousing, natural language processing, decision support systems, and intelligent agents

**IT 402 ADVANCED IT PROGRAMMING (3)**

Three hours of lecture in the lab per week

Prerequisites: IT 280

Covers a variety of programming languages, including Java, C, C++, Perl, ASP, and PHP. This course focuses on building applications that are useful to IT professionals, such as applications for network security, maintenance and surveillance.

**IT 420 DATABASE THEORY AND DESIGN FOR IT (3)**

Three hours of lecture in the lab per week

Prerequisites: MATH 300

Database structure including: structure definition, data models, semantics of relations, and operation on data models. Database schemas: element definition, use and manipulation of the schema. Elements of implementation. Algebra of relations on a database. Hierarchical data bases. Discussion of information retrieval, reliability, protection and integrity of databases.

**IT 424 COMPUTER SYSTEM SECURITY FOR IT (3)**

Three hours of lecture per week

Prerequisites: IT 429

Security techniques and practices in operating systems, databases and computer networks. Analysis of formal security models. Introduction to the OSI Security Architecture, cryptography, public key security systems and firewalls.

**IT 429 COMPUTER NETWORKS FOR IT (3)**

Three hours of lecture per week

Prerequisites: IT 362

Basic software design and analysis considerations in networking computers into coherent, cooperating systems capable of processing computational tasks in a distributed manner. Network topology, routing procedures, message multiplexing and process scheduling techniques.

**IT 464 COMPUTER GRAPHICS FOR IT (3)**

Three hours of lecture in the lab per week

Prerequisites: IT 151 and MATH 300

Fundamental concepts of computer graphics. Graphics devices; graphics languages; interactive systems. Applications to art, science, engineering and business. Trade-offs between hardware devices and software support.

**IT 469 ARTIFICIAL INTELLIGENCE/NEURAL NETWORKS FOR IT (3)**

Three hours of lecture in the lab per week.

Prerequisites: IT 151 and MATH 300

An exploration of the use of computers to perform computations normally associated with intelligence, pattern formation and recognition using various computer algorithms and data structures. Including distributed processing models found in massively parallel systems such as the brain. Stacks, decision trees and other modern mining tools and computational models for knowledge representation will be covered. Other topics may include natural language and imaging

**IT 490 SPECIAL TOPICS FOR IT (3)**

Three hours of lecture per week

Prerequisites: Senior standing in the BSIT program

The course addresses current issues in Information Technology. Specialized topics will be studied.

Repeatable by topic.

**IT 499 BSIT CAPSTONE (2)**

Prerequisite: MGT 471 and Senior standing in the BSIT program

Implement a realistic Information Technology project. Identify project goals in consultation with an industry representative. Produce the project requirements, design and complete documentation. Implement the project design, test and debug the system. Present the project results to the class and the industry representative. Work in teams.





## LIBRARY

### LIB 101 INTRODUCTION TO INFORMATION RESOURCES (2)

Two hours lecture per week

Overview of information resources and services provided by the University Library for undergraduate students. Students will learn how to find, evaluate, and apply information to scholarly research and everyday life situations. Use of online catalogs, databases, and web search engines to find print and non-print resources. Properly citing information to prevent plagiarism.

### LIB 344 THE LIBRARY: COLLECTIONS, SERVICES & INSTRUCTION (3)

Two hours lecture and two hours activity per week  
A study of university, school (K-12), public, and special libraries from business, economic, library science, and educational perspectives. Analyzes how these perspectives are linked within library practices. The course will include study of local libraries. The course will include field trips to local libraries.

Same as BUS 344, ECON 344, EDUC 344

GenEd: D, Interdisciplinary

### LIB 490 SPECIAL TOPICS (1-3)

Topics include: finding, evaluating, and applying information within a specific discipline or related group of disciplines; use of online and print sources to find books, articles, web sites, government publications, and non-print sources relevant to a discipline(s); use of appropriate discipline style manual; use of appropriate applications.

## LIBERAL STUDIES

### LS 230 THE ART OF CREATING JOURNALISM (3)

Three hours lecture per week

Prerequisites: ENGL 103 or ENGL 105

This course will integrate concepts from English/journalism, Education and Art. It is designed for students interested in producing print and photo journalism for local community publications. Topics will include journalistic writing styles and techniques, research strategies, interviewing methods, appropriate layout and design techniques. Projects will culminate in a product suitable for publication. No credit given toward the Art major.

GenEd: A2.

Same as ART 230, ENGL 230

### LS 492 INTERNSHIP/ SERVICE LEARNING (1-3)

Prerequisite: Upper-division standing

Students design a community project, individually or in a small group, related to the areas studied in the Liberal Studies major. The project must respond to a community need, involve participants in reciprocal activities, provide opportunities for student's on-going reflection, and evaluate the activity.

### LS 494 INDEPENDENT RESEARCH (1-3)

Prerequisite: Upper-division standing

Students design and implement a study project in conjunction with a faculty member.

### LS 497 DIRECTED STUDIES (1-3)

Prerequisite: Upper-division standing

Provides student credit for curricular activities under the direction of a Liberal Studies faculty member.

### LS 499 CAPSTONE PROJECT (1-3)

Prerequisite: Senior standing

In conjunction with a faculty advisor, students design and complete a project that integrates prior course work and disseminate the project to the campus community. Repeatable for credit.





## MATHEMATICS

### MATH 94 INTRODUCTION TO ALGEBRA (5)

Four hours lecture and one hour activity per week  
A review of fundamental concepts of arithmetic, geometry and elementary algebra. Students who earn Credit in this course and in MATH 095 satisfy the Entry Level Mathematics (ELM) requirement. This course is offered Credit/No Credit only. Credit will not apply toward the baccalaureate degree but will apply as 5 units of University Credit.  
Graded Credit/No Credit

### MATH 95 INTERMEDIATE ALGEBRA (5)

Four hours lecture and one hour activity per week  
Prerequisite: MATH 094 or an appropriate Entry Level Mathematics Score  
A review of concepts of geometry and intermediate algebra with applications. Students who earn Credit in this course satisfy the Entry Level Mathematics (ELM) requirement. This course is offered Credit/No Credit only. Credit will not apply toward the baccalaureate degree but will apply as 5 units of University Credit.  
Graded Credit/No Credit

### MATH 101 COLLEGE ALGEBRA (3)

Three hours lecture per week  
Prerequisite: A passing score on the Entry Level Mathematics Examination  
Topic include: basic set theory, number systems and their algebraic properties; systems of equations and inequalities; basic analytic geometry, matrix algebra and elementary functions; and problem solving.

### MATH 105 PRE-CALCULUS (4)

Four hours lecture per week  
Prerequisite: A passing score on the Entry Level Mathematics Examination  
Topics include: number systems and their algebraic properties; systems of equations and inequalities; basic analytic geometry of lines and conic sections; elementary functions including polynomial, rational, exponential, and logarithmic, with emphasis on trigonometric functions, fundamental theorem of algebra and theory of equations; polar equations and curves.

### MATH 108 MATHEMATICAL THINKING (3)

Three hours lecture per week  
Prerequisite: A passing score on the Entry Level Mathematics examination or MATH 095  
Presents the diversity of mathematics and the spirit, in which it is employed in various situations, including different problem solving strategies, inductive- deductive reasoning, paradoxes, puzzles and mathematical modeling. The contributions of various cultures and influences of other disciplines to mathematical thinking are studied.  
GenEd: B3

### MATH 137 STRATEGIES AND GAME DESIGN (3)

Three hours lecture per week  
Prerequisites: A passing score on the Entry Level Mathematics Examination  
This course introduces mathematics to the analysis of games. The principles of game theory including graphs, logic, algebra, geometry and probability are connected to game design, computer graphics and game strategies in various contexts. Applicable algorithms and techniques are demonstrated through appropriate computer gaming examples.  
GenEd: B3

### MATH 140 CALCULUS FOR BUSINESS APPLICATIONS (3)

Three hours lecture per week  
Prerequisite: A passing score on the Calculus Placement Examination or MATH 101 or MATH 105  
An integrated course in analytic geometry and calculus in the context of business and economics applications. Functions, limits, derivatives, integrals and mathematical modeling are used in problem solving in decision making context.  
GenEd: B3

### MATH 150 CALCULUS I (4)

Four hours lecture per week  
Prerequisite: Passing scores on the Calculus Placement Examination or MATH 105  
A course in analytic geometry and calculus. Topics include: elementary and transcendental functions, their properties, limits, derivatives, integrals and mathematical modeling.  
GenEd: B3

### MATH 151 CALCULUS II (4)

Four hours lecture per week  
Prerequisite: MATH 150  
Topics include: differentiation, integration, sequences, infinite series, and power series.

### MATH 201 ELEMENTARY STATISTICS (3)

Three-hour lecture/laboratory per week  
Prerequisite: A passing score on the Entry Level Mathematics Exam (ELM) or Math 105 or Math 101  
Critical reasoning using a quantitative and statistical problem-solving approach to solving real-world problems. Topics include: probability and statistics, sample data, probability and empirical data distributions, sampling techniques, estimation and hypothesis testing, ANOVA, and correlation and regression analysis. Students will use standard statistical software to analyze real world and simulated data.  
GenEd: B3

**MATH 202 BIOSTATISTICS (3)**

Three hours lecture/laboratory per week

Prerequisite: A passing score on the Entry Level Mathematics Exam (ELM) or MATH 105 or equivalent  
Critical reasoning using a quantitative and statistical problem-solving approach to solve real-world problems. Uses probability and statistics to describe and analyze biological data collected from laboratory or field experiments. Course will cover descriptions of sample data, probability and empirical data distributions, sampling techniques, estimation and hypothesis testing, ANOVA, and correlation and regression analysis. Students will use standard statistical software to analyze real world and simulated data.

Same as PSY 202

GenEd: B3

**MATH 208 MODERN MATHEMATICS FOR ELEMENTARY TEACHING I-NUMBERS AND PROBLEM SOLVING (3)**

Three hours lecture per week

Prerequisite: MATH 101

Current issues of modern math curriculum including abstract thinking and problem solving approaches to teaching. Content covers systems of numeration, nature of numbers and fundamental operations, relations and functions, properties of integers, rational and real numbers, and mathematical modeling. Problem solving strategies and geometric interpretations are stressed. Designed for students intending to teach in K-8. This course is not open to students who have credit for Calculus.

GenEd: B3

**MATH 230 LOGIC & MATHEMATICAL REASONING (3)**

Three hours lecture per week

Introduction to modern deductive logic. Critical thinking and abstract approaches to common language. Includes abstract sets and number sets, relations, propositional logic, common language cases, and theory of quantification.

GenEd: A3,B3

**MATH 240 LINEAR ALGEBRA (3)**

Three hours lecture per week

Prerequisite: MATH 151

Topics include: matrices, linear systems of equations, determinants, vectors in 2 and 3 dimensions, eigenvalues, the vector space  $R^n$ , linear transformations, introduction to general vector spaces and applications.

**MATH 250 CALCULUS III (3)**

Three hours lecture per week

Prerequisite: MATH 151 with a grade of C or better

Topics include: functions of several variables, solid analytic geometry, partial differentiation, multiple integrals with applications; vector analysis, and line and surface integrals.

**MATH 300 DISCRETE MATHEMATICS (3)**

Three hours lecture per week

Prerequisite: MATH 151 and MATH 230

Topics include: Sets, algebraic systems, axioms, definitions, propositions and proofs. Combinatorics, graph theory, moduli calculus. Coding, coding errors and Hamming codes. Students are expected to write mathematical proofs, and communicate mathematical ideas clearly in written and oral form.

**MATH 301 DISCRETE MATHEMATICS FOR IT (3)**

Three hours lecture per week

Applications of sets, logic, algebraic systems, combinatorics, graph theory, moduli calculus in information technology. Basic coding, coding errors and Hamming codes and applications.

**MATH 308 MODERN MATHEMATICS FOR ELEMENTARY SCHOOL TEACHING II-GEOMETRY, PROBABILITY AND STATISTICS (3)**

Three hours lecture per week

Prerequisite: MATH 208 or consent of the instructor

Current issues of modern math curriculum including abstract thinking and problem solving approaches to teaching. Content covers systems of geometry and geometric interpretation of real numbers, geometric constructions, mathematical modeling, basic probability and statistics. Problem solving strategies are stressed. Designed for students intending to become elementary school teachers.

**MATH 318 MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3)**

Three hours lecture in the computer lab per week

Prerequisite: MATH 150

Current issues of modern secondary school math curriculum including abstract thinking, technology use and problem solving approaches to teaching. Content is geometry based, but selected topics from algebra, precalculus, and calculus will be discussed. designed for students intending to teach. service learning project required.

**MATH 329 STATISTICS FOR BUSINESS AND ECONOMICS (3)**

Three hours lecture in the lab per week

Introduction to modern statistical methods used in business and economic analysis. Topics include: sampling, probability, various distributions, correlation and regression, statistical inferences, hypothesis testing, problem solving and the consequences to underlying economical systems.

GenEd: B3

**MATH 330 MATHEMATICS AND FINE ARTS (3)**

Three hours lecture per week

Prerequisite: A passing score on the Entry Level Mathematics examination, or MATH 095

The course is specially designed for students interested in fine arts, with the emphasis on understanding geometric patterns and concepts by self-explorations. The course creates a vast reservoir of art-related examples and hands-on experiences, and will give an innovative mathematical background for future artistic endeavors of students.

GenEd: B3, Interdisciplinary

**MATH 331 HISTORY OF MATHEMATICS (3)**

Three hours lecture per week

Study of breakthrough mathematical ideas and their creators, including historical and scientific context. Important concepts of current mathematics are studied: inception, development, difficulties, significance and various viewpoints will be presented. Lecture-discussion. At least one significant writing assignment is required.

GenEd: B3, D, Interdisciplinary

**MATH 345 DIGITAL IMAGE PROCESSING (3)**

Three hours lecture in the lab per week

Prerequisite: Consent of the instructor

An introduction to the basic concepts and techniques for digital image restoration and enhancement, analysis, coding and compression. The emphasis is on processes which analyze primarily two-dimensional discrete images represented at the pixel level, including filtering, noise reduction and segmentation. Fourier analysis techniques will be explored. Programming exercises will be used to implement the various processes, and their performance on synthetic and real images will be studied.

Same as PHYS 345, COMP 345

GenEd: B1, B4, Interdisciplinary

**MATH 350 DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS (3)**

Three hours lecture per week

Prerequisite: MATH 250 (may be taken concurrently)

Topics include: ordinary differential equations, existence and uniqueness of solutions. Linear equations. Laplace methods. Flows and diffeomorphisms, limit sets, iterations of maps. Positive entropy systems, chaotic behavior of trajectories.

**MATH 351 REAL ANALYSIS (3)**

Three hours lecture per week

Prerequisite: MATH 250

Topics include: real number system, metric spaces, norms, function spaces, continuity, differentiability, integrability of functions, sequences and series.

**MATH 352 PROBABILITY AND STATISTICS (3)**

Three hours lecture per week

Prerequisite: MATH 151

Topic include: data gathering, analysis and display. Validity of sampling methods and statistical conclusions. Probability, conditional probability, Bayes' Theorem, discrete and continuous random variables and their distribution (e.g., binomial, Poisson, hypergeometric, negative binomial, normal, exponential, gamma), moments, bivariate distributions, transformations of random variables, central and other limit theorems. Bayesian estimates, tests of hypotheses, nonparametric tests, decision theory. Modern computer software applications in statistics.

**MATH 354 ANALYSIS OF ALGORITHMS (3)**

Three hours lecture per week

Prerequisite: MATH 300 and some computer programming experience

Computer-oriented study of seminumerical and non-numerical algorithms. Topics include: sorting, tree searching, generation of combinatorial structures, algorithm proof techniques, best algorithms, programming complexity, and string matching.

**MATH 393 ABSTRACT ALGEBRA I (3)**

Three hours lecture per week

Prerequisite: MATH 300

Groups, rings, and fields, the basic algebraic structures in contemporary mathematics.

**MATH 399 MODERN TOOLS IN MATHEMATICS (1)**

Three hours laboratory per week

Modern tools and software based problem solving in mathematics.

**MATH 428 PHILOSOPHY OF MATHEMATICS (3)**

Three hours lecture per week

Discuss infinity, paradoxes, Goedel's incompleteness theorem, whether mathematics is discovered or invented, why mathematical knowledge requires proof, whether mathematics is objective truth or social convention, and what kinds of entities mathematical objects are and how we can know about them.

**MATH 429 OPERATIONS RESEARCH (3)**

Three hours lecture per week

Prerequisite: MATH 329 or MATH 352 or equivalent

Introduction to applied mathematical methods in management sciences. Topics include: linear programming, managerial optimization methods, duality and equilibrium theorems, the simplex method, development of tools and methods required to make decisions and to solve operational problems in economy, decision and risk analysis, modeling and game theory. Topics of parametric programming, large-scale methods, generalized programming.

**MATH 430 RESEARCH DESIGN AND DATA ANALYSIS (3)**

Three hours laboratory per week

Prerequisite: MATH/PSY 202 with a grade of C or better or MATH 352

Discussion of experimental design, sampling methods, data collection, and methods of data analysis related to scientific fields.

GenEd: B2,B3,Interdisciplinary

**MATH 437 MATHEMATICS FOR GAME DEVELOPMENT (3)**

Three hours lecture per week

Prerequisites: MATH 137 or MATH 300

This course covers the application of basic algebra, Newtonian physics, computational mechanics, linear algebra, probability, and differential equations to game development and computer graphics. Applicable algorithms and techniques are demonstrated through appropriate computer gaming examples.

GenEd: B3,Interdisciplinary

**MATH 445 IMAGE ANALYSIS AND PATTERN RECOGNITION (3)**

Three hours lecture in the lab per week

Prerequisite: PHYS/COMP/MATH 345 or consent of the instructor

The course addresses the issue of analyzing the pattern content within an image. Pattern recognition consists of image segmentation, feature extraction and classification.

The principles and concepts underpinning pattern recognition, and the evolution, utility and limitations of various techniques (including neural networks) will be studied. Programming exercises will be used to implement examples and applications of pattern recognition processes, and their performance on a variety of diverse synthetic and real images will be studied.

Same as PHYS 445,COMP 445

GenEd: B1,B4,Interdisciplinary

**MATH 448 SCIENTIFIC COMPUTING (3)**

Three hours lecture in the lab per week

Prerequisite: MATH 151 and MATH 350 or COMP 151

Topics include: techniques of applied mathematics, solution of equations, finite differences, and wavelets.

GenEd: B3,B4,Interdisciplinary

**MATH 450 PARTIAL DIFFERENTIAL EQUATIONS AND MATHEMATICAL PHYSICS (3)**

Three hours lecture per week

Prerequisite: MATH 350 or consent of instructor

Topics include: vector field theory and Fourier analysis.

**MATH 451 COMPLEX ANALYSIS (3)**

Three hours lecture per week

Prerequisite: MATH 250

Topics include: complex variable, analytic functions, complex integration, power series and conformal mappings.

**MATH 452 COMPUTATIONAL BIOINFORMATICS (4)**

Four hours lecture in the lab per week

Prerequisite: Programming experience and Statistics, or consent of the instructor

Basic computational models used in molecular biology will be introduced. Topics include algorithms for string alignments, dynamic programming, structural superposition algorithms, computing with differential information, 3D motifs, Hidden Markov Models, phylogenetic trees, statistical/ information techniques for pattern recognition, genetic algorithms.

Same as COMP 452

**MATH 480 DIFFERENTIAL AND RIEMANNIAN GEOMETRY (3)**

Three hours lecture per week

Prerequisite: MATH 351

Topics include: Implicit Function theorem. Differentials, Riemannian manifolds, curvature, local isometries, Gauss-Bonnet Theorem.

**MATH 482 NUMBER THEORY & CRYPTOGRAPHY (3)**

Three hours lecture per week

Prerequisite: MATH 300

Topics include: Divisibility, prime numbers, unique factorization theorem, congruences, solutions of linear congruences, solutions of quadratic congruences, Fermat's Little Theorem, Wilson's Theorem, and Euler's phi function, Cryptography.

**MATH 484 ALGEBRAIC GEOMETRY AND CODING THEORY (3)**

Three hours lecture per week

Prerequisite: MATH 393

Study of algebraic varieties over algebraically closed fields. Modern application to coding theory.

**MATH 490 TOPICS IN MODERN MATHEMATICS (3)**

Three hours lecture per week

Prerequisite: Upper-division standing

New developments in mathematics. Repeatable by topic.

**MATH 492 INTERNSHIP (1-3)**

Prerequisite: Upper division standing and Program approval of written proposal

Supervised work and study in educational, industrial or scientific setting involving development of degree related skills. All students are required to present their projects at the Senior Colloquium.

**MATH 493 ABSTRACT ALGEBRA II (3)**

Three hours lecture per week

Prerequisites: MATH 393

Field extensions, Galois theory, rings and modules, and further topics on groups, rings, and fields.



**MATH 494 INDEPENDENT RESEARCH (1-3)**

Prerequisite: Senior standing and Program approval of written proposal

Supervised project involving theoretical research in the field of mathematics or its applications. All students are required to present their projects at the Senior Colloquium.

**MATH 497 DIRECTED STUDIES (3)**

Prerequisite: Program approval of written proposal  
Supervised project involving library research in the field of mathematics or its applications. All students are required to present their projects at the Senior Colloquium.

**MATH 499 SENIOR COLLOQUIUM (1)**

One hour of seminar per week

Prerequisite: Senior standing

Oral presentations of current advancement in the field, and reports on students' projects. Repeatable.

**MATH 510 PROBABILISTIC METHODS AND MEASURE THEORY (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Introduction to probabilistic methods. Topic include: sigma algebras, measures, integrals, Lebesgue measure, main convergence results and the change of variable results for integrals. Probabilistic methods in computational sciences are studied.

**MATH 511 FUNCTIONAL ANALYSIS (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Topics include: metric spaces, function spaces, normed vector spaces, linear operators. Banach spaces, Hilbert space. Spectral theory, and fundamental theorems in functional analysis. Applications in various fields including computer science, bioinformatics, and statistical analysis.

**MATH 513 ADVANCED ALGEBRA (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Topics include: Techniques of Group Theory, Rings, Fields, Modules, Galois Theory, Algebraic Number Theory, Algebraic Geometry, Techniques of Linear Algebra, Noncommutative Algebra, and Homological Algebra.

**MATH 555 ACTUARIAL SCIENCES (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

The course provides a sound grounding in the mathematical, statistical and financial concepts needed for actuarial work, including technical and communication skills. Topics include: probability, statistics, data analysis, mathematical modeling, risk analysis, pension plans, financial economics, and time series. Various software packages are used.

**MATH 565 RESEARCH IN MATHEMATICS EDUCATION (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Mathematical research methods in education. Current issues of college level curriculum including systems of geometry, algebra, precalculus, calculus, probability and statistics, linear algebra, differential equations, and discrete mathematics.

**MATH 581 MATHEMATICAL METHODS IN ARTIFICIAL INTELLIGENCE (3)**

Three hours lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

This course presents several branches of mathematics that provide computational basis for Artificial Intelligence. The course covers Trees and Search, The Concepts of Predicate Logic, The Theory of Resolution, Nonmonotonic Reasoning, Probability Theory, Bayesian Networks, Fuzziness and Belief Theory, Classifier Systems, Math for Neural Networks, Elements of Statistics, Decision Trees and Optimization.

Same as COMP 581

**MATH 582 NUMBER THEORY & CRYPTOGRAPHY (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Topics include: Number theory, finite fields, polynomial rings, elliptic curves, public-key cryptography, zero-knowledge protocols, primality testing, factorization algorithms and applications.

**MATH 584 ALGEBRAIC GEOMETRY AND CODING THEORY (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Topics include: Algebraic varieties over algebraically closed fields and finite fields, Hamming codes, cyclic codes, BCH codes, alternant codes, Goppa codes, and codes on graphs.

**MATH 587 MARKOV CHAINS AND MARKOV PROCESSES (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Topics include: Central Limit Theorem, Law of Large Numbers, Convergence Theorems, Markov Chains and Markov Processes. Applications in other fields, such as bioinformatics and computer science.

**MATH 588 STOCHASTIC ANALYSIS (3)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Topics include: Brownian motion, stochastic integrals, conditional expectation, Kolmogorov's Theorem, applications of Lebesgue Dominated Convergence Theorem. Introduction to Stochastic Differential Equations will be given.

**MATH 590 GRADUATE TOPICS IN MATHEMATICS (3)**

Three hours lecture per week

Prerequisites: Graduate standing/Undergraduate seniors  
New developments in mathematics. Repeatable by topic.

**MATH 597 MASTER THESIS (1-9)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Supervised research in mathematical sciences or applications. Required to present research at Graduate Seminar.

**MATH 598 MASTER PROJECT (1-9)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Supervised industrial, educational or scientific project involving use of advanced mathematical methods. Required to present projects at the Graduate Seminar.

**MATH 599 GRADUATE SEMINAR (1)**

Three hours lecture per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Oral presentations of current advancements in the field, reports on students' research, master thesis, and projects. Repeatable.

**MANAGEMENT****MGT 307 MANAGEMENT OF ORGANIZATIONS (3)**

Three hours lecture per week

Principles, methods and procedures planning, organizing, leading, and controlling people within organizations. Topics include the history of management thought, organizational culture and design, decision-making, managerial communication, and strategic management.

**MGT 310 MANAGEMENT OF INTERNATIONAL BUSINESS (3)**

Three hours lecture per week

Identification and analysis of management systems in cross-border environments. Explores the impact of economic, social, cultural, and political variables on the conduct of profit-making business. Extensive use of case analysis, and performance of a country study project.

**MGT 325 ENTREPRENEURIAL MANAGEMENT (3)**

Three hours lecture per week

Explores the management of start-up and small businesses. Concentrates on initial strategy, location, financing, staffing, daily activities, controls and taxes. Students develop a business plan for a small business.

**MGT 326 SCIENTIFIC & PROFESSIONAL ETHICS (3)**

Three hours lecture per week

Discussion of ethical issues and societal challenges derived from scientific research and professional activities. Examines the sources, fundamental principles, and applications of ethical behavior; the relationship between personal ethics and social responsibility of organizations; and the stakeholder management concept. Applies ethical principles to different types of organizations: business, non-profits, government, health care, science/technology, and other professional groups. Topics also include integrity of scientific research and literature and responsibilities of scientists to society, intellectual property, ethical practices in professional fields, ethical dilemmas in using animal or human subjects in experimentation, gene cloning, animal cloning, gene manipulation, genetic engineering, genetic counseling, and ethical issues of applying biotechnology in agricultural fields.

Same as BIOL 326

GenEd: D

**MGT 421 HUMAN RESOURCE MANAGEMENT (3)**

Three hours lecture per week

Prerequisite: MGT 307

Examines principles, methods and procedures in the management of human resources. Topics include developing planning objectives for HR management, legal compliance, job analysis, recruiting, selection, training, compensation and employee relations.

**MGT 422 STRATEGIC PLANNING (3)**

Three hours lecture per week

Prerequisite: MGT 307

Examines principles, methods and procedures for strategic planning for all types of organizations. Topics include developing missions, strategies, tactics, goals/objectives, strategic divisions, internal and external environmental analysis, strategic implementation and monitoring/control mechanisms. Strategic planning is explored for both non-profit and for-profit organizations. Special emphasis will be given to the development of realistic strategic plans that can be implemented, measured and controlled in a real world environment.

**MGT 424 ORGANIZATIONAL BEHAVIOR (3)**

Three hours lecture per week

Prerequisite: MGT 307 or by Instructor Consent

An application of behavioral science theory and concepts with a focus on individual, interpersonal and group processes in a diverse work force. Topics include personality traits, emotions, values, work attitudes, work motivation, organizational politics, group effectiveness and conflict. Extensive use of individual and group case analysis.

Same as PSY 424

**MGT 426 MANAGEMENT OF HEALTHCARE ORGANIZATIONS (3)**

Three hours lecture per week

Prerequisite: MGT 307

Explores the principles of management of organizations and applies them to the unique environment of healthcare organizations. Topics include volatile environment, escalating costs, identification of stakeholders, organizational design, use of technology, quality control, and special issues in healthcare management (bio-ethics, chemical dependency, stress, workforce diversity).

**MGT 428 CONTRACT MANAGEMENT (3)**

Three hours lecture per week

Prerequisite: MGT 307

Explores the study of procurement planning, negotiation, and contract administration, including the determination of need, basic contract law, methods of procurement and fundamentals of management techniques. Topics include procurement organizations, acquisition planning, source selection, pricing, types of contracts, negotiating techniques, structuring incentives, the terms and conditions of contracts, and managing contract progress.

**MGT 429 PROGRAM MANAGEMENT (3)**

Three hours lecture per week

Prerequisite: MGT 307

Examines principles, methods, and procedures in the management of programs in public organizations. Topics include government acquisition policies, strategies, plans, and procedures, risk management, program planning, scheduling, managing, and monitoring, cost and performance evaluation, and program policy development and implementation.

**MGT 471 PROJECT MANAGEMENT (3)**

Three hours lecture per week

Prerequisite: MGT 307

Presents the principles of project management, which is a special form of work organization that focuses on a one-time objective. Discusses all aspects of project management: definition of objectives, selection of team and other resources, establishing timing and sequences, creation of monitoring and control processes, and development of analysis and reporting mechanisms.

**MGT 490 SPECIAL TOPICS (3)**

Three hours seminar per week

Prerequisite: Consent of Instructor

In-depth analysis of current topics in management.

Topics vary each semester. Repeatable by topic.

**MGT 492 SERVICE LEARNING/INTERNSHIP (1-3)**

Six hours per week

Prerequisite: Consent of the Instructor

Individual internship through service learning.

Graded Credit/No Credit

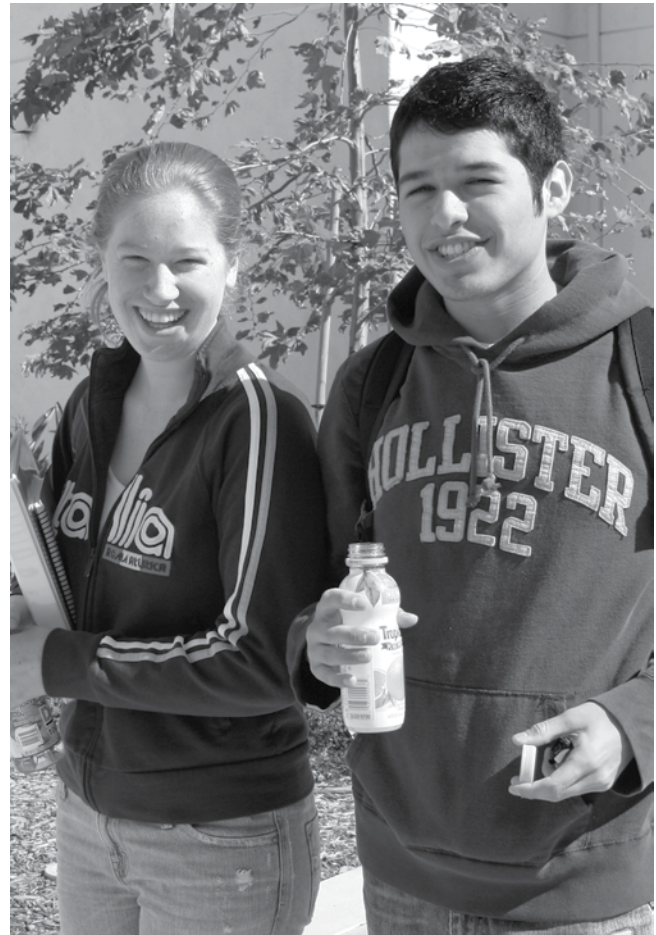
**MGT 497 DIRECTED STUDY (1-3)**

Variable hours per week

Prerequisite: Consent of Instructor

Individual contracted study on topics or research selected by the student and faculty mentor. Repeatable for up to nine units.

Graded Credit/No Credit





## MANAGEMENT INFORMATION SYSTEMS

### MIS 310 MANAGEMENT INFORMATION SYSTEMS (3)

Three hours lecture per week

Prerequisite: COMP 101 or equivalent

Examines application of computer-based information systems to the management of organizations. Topics include use of information to further the organization's mission and strategy, the role of users, the architecture of information, and development of decision-support processes for managers.

### MIS 490 SPECIAL TOPICS (3)

Three hours per week

In-depth analysis of current topics in computer information systems. Topics vary each semester. Repeatable by topic.

### MIS 492 SERVICE LEARNING/INTERNSHIP (3)

Six hours per week

Prerequisite: Consent of the instructor

Enrollment in this course is with permission of faculty member in charge. Individual internship through service learning.

Graded Credit/No Credit

### MIS 497 DIRECTED STUDY (1-3)

Variable hours per week

Prerequisite: Consent of the instructor

Individual contracted study on topics or research selected by the student and faculty mentor. Repeatable for up to nine units.

Graded Credit/No Credit



## MARKETING

### MKT 310 PRINCIPLES OF MARKETING (3)

Three hours lecture per week

Presents and analyzes the fundamental principles, methods and procedures in modern marketing: planning, pricing, distribution, and promotion. Topics include creating customer value and satisfaction, strategic planning, marketing process and environment, research and information systems, consumer markets and consumer buyer behavior, business markets and business buyer behavior, segmentation, product and services strategy, new-product development and product life cycle strategies, pricing, communications, direct and on-line marketing, and social responsibility and marketing ethics.

### MKT 311 CONSUMER BEHAVIOR (3)

Three hours lecture per week

Prerequisites: MKT 310

A comprehensive study of behavioral models and concepts designed to help understand, evaluate, and predict consumer behavior. Deepens a student's knowledge about consumer psychology and applies the knowledge from the perspective of a marketing manager. Stresses analytical thinking about consumer psychology and prediction of how marketing tactics may influence demand for products and services.

### MKT 409 MARKETING RESEARCH (3)

Three hours lecture per week

Prerequisites: MKT 310

Fundamentals of marketing research including design, implementation, analysis, interpretation, and reporting. Develop skills in defining research problems, designing surveys, experiments and observational studies, managing data collection, performing data analysis, and communicating results. Emphasis is on the use of marketing research as a component of marketing strategy (making extensive use of statistical techniques).

### MKT 410 INTERNATIONAL MARKETING MANAGEMENT (3)

Three hours seminar per week

Prerequisites: MKT 310

Develops a knowledge of culture, environment, and world market potential. The focus is developing an environmental/cultural approach to global marketing. Topics covered include: cultural and social forces, political and regulatory climate, global buyer behavior, and global marketing strategies. Cases, research, and marketing plans are used to apply marketing concepts to global opportunities and environments.



**MKT 411 NEW PRODUCT DEVELOPMENT AND MANAGEMENT (3)**

Three hours seminar per week

Prerequisite: MKT 310

Develops the managerial skills and perspectives that contribute to innovative and entrepreneurial new product development and management. Topics include analysis of consumer needs, market analysis, paradigmatic limits to thinking, new product design and development, creativity, innovation, forecasting, resource requirements, product liability issues, and managing new ventures. Managerial roles, team building, team facilitation will also be emphasized.

**MKT 490 SPECIAL TOPICS (3)**

Three hours seminar per week

Prerequisite: Consent of the instructor

In-depth analysis of current topics in marketing. Topics vary each semester. Repeatable by topic.

**MKT 492 SERVICE LEARNING/INTERNSHIP (3)**

Six hours per week

Prerequisite: Consent of the instructor

Individual internship through service learning.

Graded Credit/No Credit

**MKT 497 DIRECTED STUDY (1-3)**

Variable hours per week

Prerequisite: Consent of the instructor

Individual contracted study on topics or research selected by the student and faculty mentor. Repeatable for up to nine units.

Graded Credit/No Credit

**MUSIC**

See Performing Arts - Music

**NURSING****NRS 200 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE (2)**

Two hours lecture per week

Prerequisite: Admission to clinical nursing program

Corequisite: NRS 201. Theory is exercised in corequisite courses.

Provides the entry level nursing student with an overview of the art and science of nursing, including the philosophy, organizing theory, and desired outcomes of the nursing program. Introduces the core concepts, principles, basic assessment and clinical skills common to all areas and levels of nursing practice. Familiarizes the student with the components and use of the nursing process and presents the delivery of nursing care based on the Neuman Systems Model. Describes the dimensions of the professional role as provider of care, teacher, advocate, coordinator of care, and member of the profession.

**NRS 201 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE LAB (2)**

Six hours lab per week

Prerequisites: Admission to clinical nursing program

Corequisites: NRS 200

Provides the opportunity for the student to practice assessment skills and apply basic therapeutic nursing interventions in the clinical setting within the context of the Neuman systems Model. Includes clinical experiences in the ambulatory and/or acute or long-term health care settings, as well as simulated experiences in the on-campus Nursing Skills Laboratory. Lab fee is required.

**NRS 203 THERAPEUTIC NURSING COMMUNICATION LABORATORY (1)**

Three hours laboratory per week

Prerequisite: Admission to the clinical nursing program or instructor consent

Corequisite: NRS 200 and NRS 201

Intensive clinical laboratory in which interpersonal and group therapeutic communication skills are developed. Designed to prepare students to use therapeutic communication skills while functioning in individual nurse-client relationships and in leadership or education roles occurring in group settings involving other professionals, clients, families, and communities. Graded Credit/No Credit

**NRS 204 PHARMACOLOGY OF NURSING PRACTICE (2)**

Two hours lecture per week

Prerequisites: Admission to the clinical nursing program or instructor consent

Corequisites: NRS 200 and NRS 203. Theory is exercised in corequisite courses.

Provides opportunities to incorporate therapeutic modalities with individuals experiencing anxiety, crisis, depression, and dysfunctional interpersonal relationships. Focuses on promotion of mental health from the system-based perspective in diverse clinical settings.

**NRS 220 NURSING CARE OF ADULTS WITH ACUTE AND CHRONIC ILLNESS I (2)**

Two hours lecture per week

Prerequisites: NRS 200, NRS 201, NRS 203, and NRS 204

Corequisites: NRS 221

Presents principles of nursing care delivery for adult individuals experiencing medical-surgical health care problems and mild to moderate disorders of the integumentary, sensory, musculoskeletal, gastrointestinal, cardiovascular, and immune systems. Uses the Neuman Systems Model to guide nursing practice and achieve desired therapeutic outcomes.

**NRS 221 NURSING CARE OF ADULTS WITH ACUTE AND CHRONIC ILLNESS LAB I (2)**

Six hours laboratory per week

Prerequisites: NRS 200, NRS 201, NRS 203 and NRS 204

Corequisites: NRS 220

Provides the opportunity to apply nursing theory and concepts to the delivery of health care to adult medical-surgical clients in an acute care clinical setting. Nursing care is provided through the use of the nursing process and the Neuman Systems Model. Emphasizes the professional role of the nurse in managing clients under stress. Lab fee required

**NRS 222 NURSING CARE OF ADULTS WITH ACUTE AND CHRONIC ILLNESS II (4)**

Two hours lecture per week

Prerequisites: NRS 220 and NRS 221

Corequisites: NRS 223

Continues the study of principles of nursing care delivery for individuals and families experiencing medical-surgical health care problems involving disorders of the endocrine, respiratory, hematological, renal and genitourinary, and neurological body systems and those with acute cardiac and oncological conditions. Uses the Neuman Systems Model and the nursing process as the foundation for standard therapeutic interventions for individuals in stress.

**NRS 223 NURSING CARE OF ADULTS WITH ACUTE AND CHRONIC ILLNESS LAB II (4)**

Twelve hours lab per week

Prerequisites: NRS 220 and NRS 221

Corequisites: NRS 222 Theory is exercised in corequisite courses

Provides the opportunity to apply nursing theory and concepts in the delivery of health care to adult medical-surgical patients in an acute care clinical setting. Nursing care is provided through use of the nursing process and the Neuman Systems Model. Emphasizes the increasing complexity of the professional role of the nurse.

**NRS 230 NURSING CARE OF INFANTS, CHILDREN AND FAMILIES (4)**

Four hours lecture per week

Prerequisites: NRS 200, NRS 201, NRS 203 and PSY 213

Corequisites: NRS 220, NRS 221 and NRS 231

Presents nursing concepts and theory related to health care of the newborn infant, toddler, school-aged child, adolescent, and the family. Focuses on the care of families during childbearing and childrearing years and includes both normal, high-risk conditions, and acute illness. Emphasizes health promotion, growth and development, and application of the Neuman Systems Model and the nursing process to promote adaptation.

**NRS 231 NURSING CARE OF INFANTS, CHILDREN AND FAMILIES LAB (4)**

Twelve hours lab per week

Prerequisites: NRS 200, NRS 201, NRS 203, NRS 204 and PSY 213

Corequisites: NRS 220, NRS 221, and NRS 230

Provides opportunities for application of the Neuman Systems Model and the nursing process in the direct care of the normal and high-risk childbearing and childrearing population. Places emphasis on teaching and health promotion for the newborn infant, toddler, school-aged child, adolescent, and the family in varied clinical settings. Lab fee required.

**NRS 240 PSYCHIATRIC AND MENTAL HEALTH NURSING (3)**

Three hours lecture per week

Prerequisites: NRS 200, NRS 201, NRS 203, NRS 204

Corequisites: NRS 241

Presents theories and concepts related to the care of individuals who require nursing interventions to achieve and maintain mental health. Focuses on use of self-therapeutic communication, and nursing process.

**NRS 241 PSYCHIATRIC AND MENTAL HEALTH LABORATORY (2)**

Six hours laboratory per week

Prerequisite: NRS 200, NRS 201, NRS 203, NRS 204 and admission to clinical nursing program

Corequisite: NRS 240

Provides opportunities to incorporate therapeutic modalities with individuals experiencing anxiety, crisis, depression, and dysfunctional interpersonal relationships. Focuses on promotion of mental health from the system-based perspective in diverse clinical settings.

**NRS 260 NUTRITION FOR THERAPEUTICS AND HEALTH (3)**

Three hours of lecture per week.

Prerequisites: BIOL 211 and BIOL 217; Admission to clinical nursing program and instructor consent

Provides an overview of the physiological and nutritional basis of health and wellness as related to development, growth, maturation and healthy lifestyles. Focuses on the scientific role of nutrition in health promotion and disease prevention and the therapeutic role of nutrient control in disease states.

Same as BIOL 260

**NRS 306 PATHOPHYSIOLOGY (3)**

Three hours lecture per week

Prerequisites: BIOL 210 and BIOL 211

Corequisites: Generic Student: NRS 220 and NRS 221

Theory is exercised in corequisite courses and content linked. RN-BSN students have no corequisites.

Examines related pathophysiological disruptions to normal system functioning and the impact of these alterations on the individual throughout the life span. Provides rationale for nursing interventions for common health problems involving the integumentary, sensory, musculoskeletal, gastrointestinal, cardiovascular, endocrine, respiratory, hematological, renal/genitourinary, and neurological body systems.  
Same as BIOL 306

**NRS 310 PROFESSIONAL ROLE TRANSITION FOR THE TRANSFER STUDENT (3)**

Three hours lecture per week

Prerequisites: Admission to the RN-to-BSN Nursing Major

Corequisites: NRS 311

Provides the returning RN and /or the transfer student with the conceptual base for the practice of nursing, built around a core of theories and related concepts which will facilitate transition of the student into the baccalaureate nursing curriculum. Familiarizes the student with the components and use of the nursing process and presents the delivery of nursing care based on the Neuman Systems Model. Focus is on the roles of the professional nurse as advocate, educator, provider and coordinator of care.

**NRS 311 PROFESSIONAL ROLE TRANSITION SEMINAR FOR THE REGISTERED NURSE (2)**

Four hours lab per week

Corequisites: NRS 310

Provides the returning RN an opportunity to apply and discuss the nursing process and the delivery of nursing care based on the Neuman Systems Model in their work settings. The lab will focus on groups discussion of the implementation of the roles of the professional nurse as advocate, educator, provider and coordinator of care and facilitate transition of the student into the baccalaureate nursing curriculum.

**NRS 342 COMPLEMENTARY AND ALTERNATIVE HEALTH (3)**

Three hours lecture per week

Examines alternatives to conventional health approaches such as acupressure, herbal remedies, relaxation, therapeutic massage, naturopathy, qigong, and yoga. Emphasis on individual and social lifestyle approaches, legal and ethical barriers, governmental status and support.

Same as PSY 342

GenEd: C3B,E,Interdisciplinary

**NRS 348 HEALTHY AGING (3)**

Three hours lecture per week

Explores physical, cultural and psychosocial factors influencing health issues during the elderly years of life. Topics include aging stereotypes, cultural and family influences on the elderly, physiology of aging, lifestyles choices associated with healthy aging, and end of life care.

GenEd: D,E, Interdisciplinary

Same as PSY 348, SOC 348

**NRS 350 NURSING RESEARCH (3)**

Three hours lecture per week

Prerequisite: BIOL/MATH/PSY 202 or equivalent.

Admission to clinical nursing program.

Introduction to the nursing research process and development of skills in reading, analyzing and critiquing research related to nursing. Promotes an understanding of the importance of research utilization in clinical practice.

**NRS 352 HEALTH PROMOTION AND PATIENT EDUCATION STRATEGIES (3)**

Three hours lecture per week

Prerequisites: NRS 222 and NRS 231 (Generic students only) or admission to RN-to-BSN Nursing major.

Application of the concepts regarding health education and health promotion. Examination of the theories, research, and practice essential patient education integration. The course explores the effects of developmental, motivational, and sociocultural factors on patient teaching, health education, and health promotion.

**NRS 401 ADVANCED CLINICAL ASSESSMENT LAB (2)**

Six hours of lab per week

Corequisites: NRS 420 and NRS 421

Advanced practice in clinical assessment including history taking, physical examination and documentation of findings, interpretation of diagnostic testing, psychosocial assessment techniques and health status assessment. Nursing care implications of monitoring and management of clients experiencing more complex medical-surgical health care problems with advanced technical interventions.

**NRS 420 NURSING CARE OF THE COMPLEX CLIENT ACROSS THE CONTINUUM (3)**

Three hours lecture per week

Prerequisite: NRS 222, NRS 223 and NRS 300

Corequisite: NRS 421 and NRS 401

Principles of nursing care delivery for patients and families experiencing more complex medical-surgical health care problems. Development of skills in managing the care of patients in the acute care setting and/or in the community in order to maintain maximum levels of function, manage symptoms, and increase quality of life. Focuses on nursing case management models, roles and strategies used for managing high-risk client populations and for providing comprehensive care coordination, brokerage, monitoring, discharge planning, client/family advocacy, and nursing interventions.

**NRS 421 NURSING CARE OF THE COMPLEX CLIENT ACROSS THE CONTINUUM LABORATORY (3)**

Nine hours lab per week

Prerequisites: NRS 222, NRS 223 and NRS 310

Admission to the clinical nursing program.

Corequisites: NRS 420 and NRS 401

Application of nursing theory, management skills, and concepts in the delivery of nursing care to acutely ill/chronically ill adults with increasingly complex medical-surgical problems. Provision of nursing care to members of a high-risk population in the acute care setting from admission through discharge and in the home setting. Implementation of nursing case management strategies and intervention will be used for managing high-risk client populations and for providing cost effective and comprehensive care coordination, brokerage, monitoring.

**NRS 441 HEALTH COMMUNICATION (3)**

Three hours lecture per week

Prerequisites: COMM 320

Explores the evolution of health as a major topic in communication studies. Focuses on conversations between health practitioners and patients as well as public health campaigns.

Same as COMM 441

GenEd: D, Interdisciplinary

**NRS 452 COMMUNITY HEALTH NURSING (3)**

Three hours lecture per week

Prerequisites: ANTH 443, BIOL 432, NRS 240, NRS 241; Admission to Track 1B Clinical Nursing Program

Corequisites: NRS 453 and BIOL 432. Admission to Track 1B and RN to BSN.

Examines the professional nurse's role in working with clients, families and aggregates in the community setting. Explores contemporary public health problems and working collaboratively with the community as part of an interdisciplinary team. Assists the student in developing skills in community assessment, program planning and practice interventions to help identified populations within the community maintain their optimum level of health.

**NRS 453 COMMUNITY HEALTH NURSING LAB (3)**

Nine hours lab per week

Prerequisites: ANTH 443, BIOL 432, NRS 240, NRS 241; Admission to Track B1 Clinical Nursing Program

Corequisites: NRS 452 and BIOL 432 and Admission to Track 1B and RN to BSN Program

Provides clinical experience within an official agency of the public health system. Students work as a member of an interdisciplinary team, and focus on care management of clients receiving services from community agencies, allied clinical experiences and community assessment and planning. Students will identify populations within the community and assist them to maintain their optimum level of health.

**NRS 460 NURSING LEADERSHIP AND PROFESSIONAL ISSUES (3)**

Four hours lecture per week

Prerequisite: NRS 350. Admission to the Clinical Nursing Program.

Corequisite: NRS 461

Examines organizational theory and management practices applied to health care systems and contemporary issues affecting the delivery of health care and discipline and professional practice of nursing. Explores the role of the nurse manager as leader and change agent in the delivery of care to patient groups and communities within complex and diverse health care settings. Provides an overview of health care informatics systems, electronic health records, databases and information literacy.

**NRS 461 NURSING LEADERSHIP LABORATORY (3)**

Nine hours laboratory per week

Prerequisites: NRS 350. Admission to the clinical nursing program

Corequisites: NRS 460

Clinical application of organizational theory and management practices in health care settings. Experience in working with health care informatics systems and data bases. Operationalizes the role of the nurse manager as leader and change agent in the delivery of care to patient groups and communities within complex and diverse health care settings.

**NRS 488 TRANSITION TO PROFESSIONAL NURSING PRACTICE (2)**

Two hours lecture per week

Prerequisites: NRS 452, NRS 453, Admission to the Clinical Nursing Program

Corequisites: NRS 420, NRS 421

Reviews the essentials of assessment, nursing diagnosis, goal setting, implementation and evaluation in multiple health deviations and across the life span. Assessment of the student's basic nursing knowledge will be performed using a standardized nursing examination. Clinical decision making in a variety of patient care situations and case scenarios with emphasis on utilization of the steps of the nursing care process.

Graded Credit/No Credit

**NRS 491 TRANSITION TO NURSING PRACTICE INTERNSHIP (2)**

Two hours activity per week

Prerequisites: NRS 220 and NRS 221

Provides an opportunity for the generic nursing student to work in a clinical setting under the supervision of a clinical preceptor and to reinforce and enhance clinical skills. NRS 491 is a required course in the major and is work-study with credit and no pay.

Graded Credit/No Credit



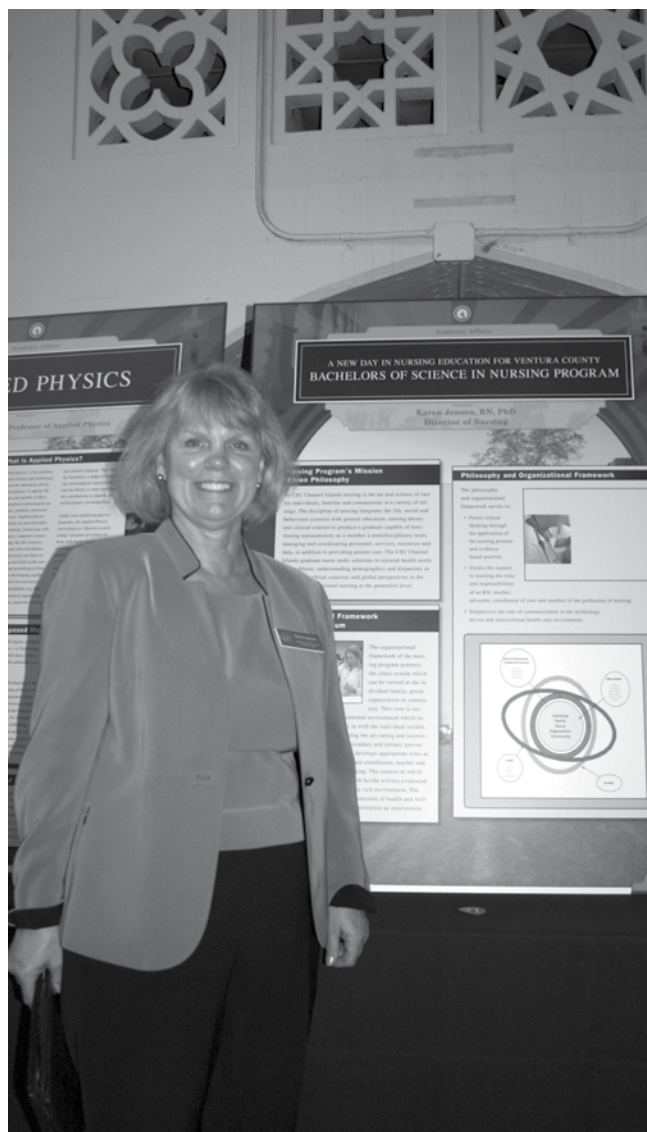
**NRS 493 SENIOR NURSING INTERNSHIP (2)**

Two hours activity per week

Prerequisites: NRS 491 and consent of Program Director

optional career preparation refinement course which provides the student with additional work experience. Local health care partners offer particular work settings where students can immerse themselves in the organizational culture, professional role and client population. Repeatable for a total of four (4) units. NRS 493 is a paid internship with credit and is an optional course.

Graded Credit/No Credit

**PERFORMING ARTS****PA 101 INTRODUCTION TO THE PERFORMING ARTS (3)**

Three hours lecture per week

Overview of the history of performance, cultural traditions, and artistic assumptions in theatre, music, and dance. Requires some involvement in local or campus productions.

GenEd: A1,C1

**PA 202 INTEGRATING DANCE, MUSIC & THEATRE (3)**

One hour lecture per week

Four hours activity per week

Investigation and application of methods and philosophies of performance integrating dance, music, and theatre.

GenEd: A1,C1

**PA 335 BUSINESS & THE PERFORMING ARTS (3)**

Three hours lecture per week

Exploration of the business elements in the performing arts, including planning, management and financial activities. Uses an interdisciplinary approach to focus on performing arts as a creative activity and as a business activity. Uses case studies to analyze a comprehensive view of performing arts organizations.

Same as BUS 335

GenEd: Interdisciplinary

**PA 338 THEATRE IN HISTORY (3)**

Three hours lecture per week

A survey of the history of theatrical productions.

Includes formal productions and performances as well as other types of theatre or dramatization such as political posturing, i.e. Caesar's entrance into Rome in historical reality as well as performed or recorded later in theatre, music, and history.

Same as HIST 338

GenEd: C1,D,Interdisciplinary

**PA 350 AUDIENCE & PERFORMANCE STUDIES (3)**

Two hours lecture and two hours activity per week

Prerequisites: PA 101 and PA 202

Interdisciplinary exploration of performance as an art form, with particular attention to how audience response shapes live performances. History, development, and theory of performance will be integrated with new research on audience-performer interaction to provide the student with a comprehensive and interdisciplinary vision of performance. Students will both study performance and design community-based projects in which they will perform.

**PA 360 MUSICAL THEATRE (3)**

Two hours lecture and two hours activity per week

Practice of musical theatre performance, including survey of musical theatre as an art form and practical work in acting, singing and dancing in musicals.

**PA 383 SCENIC DESIGN (3)**

Six hours activity per week

A studio/activities course utilizing artistic techniques involved in the development of scenic design for theatrical, musical and dance productions. Script analysis, scenery sketching, drafting ground plans, elements of set construction and scenic painting will be covered in a series of studio projects.

Same as ART 383

**PA 384 COSTUME DESIGN (3)**

Six hours activity per week

A studio/activities course in which students develop costume designs through a process of character and script analysis. Period research, visual design, rendering and fabrication skills are achieved through practical exercises. Basic costume construction, including drafting and draping, result in the creation of costumes for theatrical, musical and dance productions.

Same as ART 384

**PA 436 PHYSICS OF THE PERFORMING ARTS (3)**

Three hours lecture per week

Prerequisites: PA 202

Introduction to the physics of movement, lighting, sound and visual/aural perception. The course emphasizes factors that permit the performance artists to understand and more fully control their performance, with special attention to the study of audience perception. Demonstrations, experiments and video/computer simulations are used to analyze signals received by the performer and the audience.

Same as PHYS 436

GenEd: B1, Interdisciplinary

**PERFORMING ARTS - DANCE****PADA 151 CONDITIONING FOR DANCERS (3)**

Six hours activity per week

This course utilizes techniques (stretching, yoga, pilates) and principles of conditioning (strength, flexibility, and endurance) to prevent injuries stemming from muscular imbalances, structural problems, postural deviations, improper mechanics or movements. Students will develop individualized conditioning programs to prevent injuries.

**PADA 253 JAZZ DANCE I (3)**

Six hours activity per week

Prerequisite: Consent of Instructor

Activities designed to develop basic jazz dance technique accompanied by historical information relevant to the dance form.

**PADA 254 MODERN DANCE I (3)**

One hour lecture per week

Two hours activity per week

Beginning modern dance techniques based on major dance pioneers, major points in dance history and language of Modern Dance.

GenEd: C1,E

**PADA 353 JAZZ DANCE II (3)**

Six hours activity per week

Prerequisite: PADA 253

Activities designed to develop intermediate jazz dance technique and a study of the history of jazz dance.

**PADA 354 MODERN DANCE II (3)**

Six hours activity per week

Prerequisite: PADA 254

Intermediate modern dance technique with continued development of improvisational skills and beginning dance composition forms.

**PADA 458 DANCE ENSEMBLE (3)**

Six hours activity per week

Prerequisites: PADA 353 or PADA 354

A dance repertory and performance class with emphasis in developing skills for performing ballet, modern, jazz, historic and/or other forms of theatrical dance.

**PADA 499 PERFORMING ARTS CAPSTONE IN DANCE (3)**

Three hours seminar per week

Prerequisites: PADA 353 and PADA 354, Senior Status  
Students will join in the capstone experience course and blend their knowledge and practice to produce an interdisciplinary performing arts project. Alternatively, students may receive an internship with a dance company.

## PERFORMING ARTS - MUSIC

### PAMU 100 MUSIC APPRECIATION (3)

Three hours lecture per week

A survey of musical masterpieces of the Western Tradition from the Middle Ages to the present. Emphasis on composers from Bach to Bartok. Includes units on jazz and the music of other cultures.

GenEd: C1

### PAMU 109 PRIVATE LESSONS (1)

One half-hour lesson per week

Private music lessons in voice or on an instrument.

Repeatable for up to a total of 8 units

### PAMU 200 HISTORY OF ROCK (3)

Three hours lecture per week

A survey of the evolution of rock music from the 1950s to the present. Includes discussions of predecessor styles such as rhythm and blues and country music.

GenEd: C1

### PAMU 202 GROUP GUITAR LESSONS (1)

Two hours activity per week

An introduction to classical guitar in a group format for beginning/intermediate level students.

### PAMU 243 TEACHING MUSIC TO CHILDREN (3)

Three hours lecture per week

An introduction to musical experiences appropriate for children in grades K-6. Consisting of instruction in music fundamentals, general music, vocal music and instrumental music for the classroom teacher, the course also incorporates movement and improvisation in the form of dance and theater. Kodaly, Orff and Dalcroze techniques will be emphasized. Includes music technology in the classroom. Course was formerly called PAMU 343, changed Fall 2007.

### PAMU 261 MUSIC THEORY (3)

Three hours lecture per week

Basic music theory and music fundamentals, set in the context of the Western European common-practice period, for the beginning university-level music student. Special emphasis on the role of popular and commercial music in society, including jazz and musical theatre.

### PAMU 307 UNIVERSITY CHORUS (1)

Three hours of rehearsal per week

Prerequisite: Consent of the Instructor

Rehearsal and performance of the masterworks of choral literature from the Renaissance through the Modern period. Repeatable for up to 8 units.

GenEd: C1

### PAMU 308 UNIVERSITY ORCHESTRA (1)

Three hours rehearsal per week

Rehearsal and performance of the masterworks of orchestral literature from the Baroque through the Modern period. Repeatable for up to 8 units.

GenEd: C1

### PAMU 309 PRIVATE LESSONS (1)

One half-hour lesson per week

Private music lessons in voice or on an instrument. Study of more advanced techniques. Repeatable for up to 8 units.

### PAMU 330 JAZZ IN AMERICA (3)

Three hours lecture per week

The study of jazz as a uniquely American musical art form, principally through the development of jazz styles. From its roots in Africa and later in New Orleans, jazz will be studied as both a musical and a social phenomenon that originated and was nurtured in the African-American community. The course will explore issues of community, ethnicity, class, and gender in relationship to jazz as a vehicle for both personal and cultural expression. Through recordings, videos, lectures, demonstrations and live performances, students will study jazz and its forerunners, ragtime and blues, from their beginnings to the present day.

GenEd: C1,C3B,Interdisciplinary

### PAMU 333 THE VARIETIES OF MUSICAL EXPERIENCE (3)

Three hours lecture per week

The study of music in its cultural and historical contexts, with an emphasis on the role of music as a form of human expression. A broad range of musical styles will be studied, including, but not limited to, European, Asian, and Middle Eastern classical music; American jazz and popular music; and folk music of western and non-western cultures. Students will study the unifying and authenticating nature of music within groups of people, as well as study the experience of music on a personal level.

GenEd: C1,Interdisciplinary

### PAMU 335 THE PHYSICS OF MUSIC (3)

Two hours lecture and two hours lab activity per week

Provides an understanding of music and sound for students interested in music, speech, and language. Extensive use of demonstrations and sound analysis computer programs will be used. The format will include lectures, demonstrations, and hands-on use of the computer programs.

Same as PHYS 335

GenEd: B1,C1,Interdisciplinary

### PAMU 336 ART AND MUSIC: DISSONANCE, DIVERSITY AND CONTINUITY (3)

Three hours lecture per week

An interdisciplinary analysis of the essential elements defining modern and contemporary art and music. Discusses how artistic characteristics and music issues of the period are connected and intertwined within specific historic and cultural environments.

Same as ART 336

GenEd: C1,D,Interdisciplinary



**PAMU 363 MUSIC HISTORY (3)**

Three hours lecture per week

Prerequisite: PAMU 261

An in-depth study of Western European music in its historical context, with special emphasis on the role of music in culture. From the music of the Medieval church to American musical theatre, the course will examine the societal forces that helped to shape classical and popular musical styles, and how music can and has influenced culture.

**PAMU 432 ARTS OF THE HARLEM RENAISSANCE (3)**

Three hours lecture per week

Prerequisite: Upper division standing

Study focusing on the dramatic upsurge of creativity in art, music and literature resulting from social and political undercurrents in the African American cultural revolution in New York during the 1920s. Historical geneses and subsequent artistic legacies will also be explored.

Same as ENGL 432, ART 432

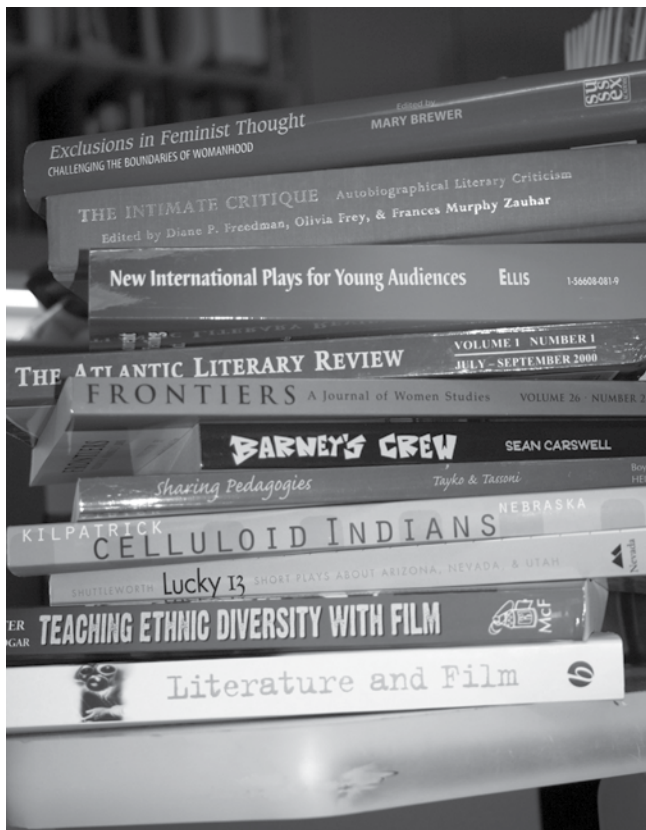
GenEd: C1, C2, Interdisciplinary

**PAMU 499 PERFORMING ARTS CAPSTONE IN MUSIC (3)**

Six hours seminar per week

Prerequisite: PAMU 363, Senior Status

Students will join in the capstone experience course and blend their knowledge and practice to produce an interdisciplinary performing arts project. Alternatively, students may receive an internship with a music company.

**PERFORMING ARTS - THEATRE****PATH 280 ACTING I (3)**

Two hours lecture and two hours activity per week

Exercises and activities that emphasize voice, movement, and relaxation techniques. Includes improvisation, monologues, and two-character scenes.

GenEd: A1, C1

**PATH 281 PLAY ANALYSIS (3)**

Three hours lecture/discussion per week

Introduces students to the analytical tools used by theatre professionals and provides practice in applying those tools to a variety of scripts. Studies in dramatic structure and its relationship to performance and production.

**PATH 332 TEACHING DRAMATIC LITERATURE (3)**

Three hours lecture per week

Prerequisite: ENGL 102 or ENGL 105 or equivalent plus one upper division literature course

This course will explore methods and approaches to teaching dramatic literature in secondary schools and colleges. The focus will be on elements of textual exploration and using heuristics from theatre to teach dramatic literature, including but not exclusively Shakespeare's plays.

Same as ENGL 332

GenEd: C2, Interdisciplinary

**PATH 333 MULTICULTURAL DRAMA IN PERFORMANCE/PRODUCTION (3)**

Three hours lecture/discussion per week

America is a country of many cultures, and each of these has brought legacies of its roots to the American stage. In this course we will read plays written by Native Americans, Hispanic Americans, Asian Americans, African Americans and others. We will also stage mini-productions of one or more of those plays.

Same as ENGL 333

GenEd: C2, C3B, Interdisciplinary

**PATH 380 ACTING II (3)**

Two hours lecture and two hours activity per week

Prerequisite: PATH 280

Emphasizes character work and contemporary acting theories. Includes performance of scenes from contemporary multicultural plays.

**PATH 382 DIRECTING (3)**

Two hours lecture and two hours activity per week

Prerequisites: PA 101, PA 202, PATH 281

Introduction to techniques and practice of directing stage plays. Students direct scenes and one-acts.



**PATH 410 SHAKESPEARE'S PLAYS (3)**

Three hours lecture per week

Prerequisite: ENGL 103 or ENGL 105 or equivalent and one upper division literature course

Study of the many aspects of Shakespeare's plays as literature--language, context, form and style--as well as the ways in which these elements work as parts of a whole, which includes spoken speech and other sounds as well as physical form and movement.

Same as ENGL 410

**PATH 412 DRAMA OF ANCIENT GREECE (3)**

Three hours lecture/discussion per week

Prerequisite: ENGL 103 or 105 or equivalent and one upper division literature course

A survey of ancient Greek drama and the culture/society that produced it. The course will examine a representative sample of the major plays. Among the topics considered will be: the tragic and comic festivals, tragedy's relationship with Athenian democracy, the nature of Greek theaters and ancient theatrical production techniques, religion and drama, women and tragedy, tragic and comic heroism, myth and tragedy, and the legacy of Greek tragedy in the modern world.

Same as ENGL 412

**PATH 444 ORIGINAL PRACTICE IN RENAISSANCE DRAMA (3)**

Three hours lecture per week

In this class, students will learn about the theaters of the Renaissance, the playwrights whose plays were performed in them, and explore the differences that occur when the plays are performed in a venue resembling those of the original Rose, Blackfriars and Globe theaters.

Same as ENGL 444

GenEd: C2, Interdisciplinary

**PATH 481 PRODUCTION (3)**

Three hours activity per week

Prerequisites: PA 360 and consent of instructor

Directing, acting or implementing technical projects in CSUCI musical theatre productions

Graded Credit/No Credit

**PATH 499 PERFORMING ARTS CAPSTONE IN THEATRE (3)**

Three hours seminar per week

Prerequisites: PA 350, PA 360, Senior Status

Students will join in the capstone experience course and blend their knowledge and practice to produce an interdisciplinary performing arts project. Alternatively, students may receive an internship with a theatre company.

**PHYSICAL EDUCATION****PHED 102 SEMINAR IN TRADITIONAL MARTIAL ARTS: TAI JI (1)**

Two hours activity per week

This course provides instruction in the traditional Chinese art of Tai Ji. In addition to learning to perform the movements, students will learn about Daoist philosophy, and history of Chinese martial arts. Traditional Chinese health principles will also be covered. Repeatable.

GenEd: E

**PHED 105 ZEN OF SURFING (1)**

Two hours activity per week

Exploration of the physiological and psychological benefits that result from human interaction with forces of nature. Students develop an increased understanding of the ocean and complex dynamics that underlie the sport of surfing. The interrelationship between physical activity and personal aesthetics is explored through weekly surfing activities.

GenEd: E

**PHED 110 WELLNESS (2)**

Two hours lecture per week

Examines the interrelationship of the mind and body as it relates to the concept of wellness. Covers physical fitness, sport selection, and differing types of exercise. This is not an activity/ performance course.

GenEd: E

**PHED 208 INTRODUCTION TO KINESIOLOGY (3)**

Three hours lecture per week

Examines the field of human movement, introduces biomechanics, anatomy, exercise physiology, and motor learning. Basic anatomy, function of the musculoskeletal system, laws of motion, principles of force, equilibrium concepts, and laws governing projectiles will be introduced and applied to various sports activities. The student will develop the ability to analyze skill movements in specific sport activities. This is not an activity/ performance course.

GenEd: E

**PHED 302 MOTOR LEARNING, FITNESS, AND DEVELOPMENT IN CHILDREN (2)**

Two hours lecture per week

Physical education for children, fundamentals of motor learning, health, fitness and age-appropriate activities for elementary school age children. Teaching, planning and implementing an effective physical education program. May be taken concurrently with PHED 303. This is not an activity/ performance course.

GenEd: E

**PHED 310 ADAPTED PHYSICAL EDUCATION (3)**

Three hours lecture per week

Basic concepts of Adapted Physical Education and an examination of trends in schools and communities. Particular attention given to inclusion as a teaching model. This is not an activity/ performance course

GenEd: E

## PHYSICAL SCIENCE

### PHSC 170 FOUNDATIONS IN PHYSICAL SCIENCE (4)

Three hours lecture and three hours laboratory per week  
The areas covered include the physical properties of solids, liquids, and gases; physical and chemical changes in matter; atomic theory and the periodic table; the principles of motion and energy; forces and the motion of particles; sources and transformations of energy including heat, electricity, magnetism, light, and sound; renewable and non-renewable energy sources; and the conservation of energy resources.

GenEd: B1



## PHYSICS

### PHYS 100 INTRODUCTION TO PHYSICS I (4)

Three hours lecture and three hours laboratory per week  
A non-calculus based introduction to the concepts and principles of physics. The areas covered include classical mechanics, wave motion and thermal physics. Practical examples will be used to illustrate the relationship between physics and other disciplines, especially the life sciences, and to develop problem-solving skills. Laboratory sessions will include computer-simulated experiments.

GenEd: B1

### PHYS 101 INTRODUCTION TO PHYSICS II (4)

Three hours lecture and three hours laboratory per week  
Prerequisite: PHYS 100

A non-calculus based introduction to the concepts and principles of physics. The areas covered include electromagnetic theory, light, and atomic and nuclear physics. Practical examples will be used to illustrate the relationship between physics and other disciplines, especially the life sciences, and to develop problem-solving skills. Laboratory sessions will include computer-simulated experiments.

GenEd: B1

### PHYS 103 HOW THINGS WORK (3)

Three hours lecture per week

Introduces the concepts behind everyday objects and experiences. Concentrates on ideas and on familiar scenarios. Designed to excite students' interests in science while conveying a substantial understanding of our everyday world.

GenEd: B1

### PHYS 105 INTRODUCTION TO THE SOLAR SYSTEM (4)

Three hours lecture and two hours activities per week  
Descriptive introduction to the astronomical properties of the Solar System. Topics include: the historical development of astronomy, the laws that govern the behavior of the Universe, the properties of the stars and galaxies, including their origin and evolution and the Big Bang theory. Activity sessions will include computer-simulated exercises, and two field trips.

Same as ASTR 105

GenEd: B1

### PHYS 106 APPLIED PHYSICS AND MODERN SOCIETY (3)

Three hours lecture in the lab per week

The course provides an introduction to current topics in applied physics in the fields of solid state physics, semiconductors, superconductors and nano-structures. It shows how scientific knowledge, imagination and ingenuity can combine to offer technological solutions to a variety of topical problems. Industries dealing with, for example, detectors, remote sensing, new materials, medical imaging, biophysics, homeland security, telecommunications, and lasers will be covered.

GenEd: B1

**PHYS 107 THE STARS AND BEYOND (3)**

Three hours lecture per week

A tour through the stars and galaxies will uncover some major mysteries of the Universe. Topics include: the historical development of astronomy; the laws that govern the behavior of the Universe; the birth, life and death of stars; the collision of galaxies; and evidence for the birth and end of the entire Universe.

GenEd: B1

**PHYS 200 GENERAL PHYSICS I (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: MATH 150

A calculus-based introduction to the concepts and principles of physics. The areas covered include classical mechanics, wave motion and thermal physics. Practical examples will be used to illustrate the relationship between physics and other disciplines, including the life sciences, and to develop problem-solving skills. Laboratory sessions will focus on computer-simulated experiments.

GenEd: B1

**PHYS 201 GENERAL PHYSICS II (4)**

Three hours lecture and three hours laboratory per week

Prerequisite: PHYS 200

A calculus-based introduction to the concepts and principles of physics. The areas covered include electromagnetic theory, light, and atomic and nuclear physics. Practical examples will be used to illustrate the relationship between physics and other disciplines, including the life sciences, and to develop problem-solving skills. Laboratory sessions will focus on computer-simulated experiments.

GenEd: B1

**PHYS 208 THE PHYSICS OF ART AND VISUAL PERCEPTION (3)**

Two hours lecture and two hours lab per week

A course on the physics of light, color, art and visual perception. The course will cover the nature of light and optical phenomena, the perception and psychology of color, the reproduction of color in different media, and the analysis of art from a science perspective. The emphasis is on factors which permit the artist and observer to understand and more fully control the design and interpretation of images of all kinds. Demonstrations, experiments, and video/computer simulations are used to analyze signals received by the eyes or instruments.

Same as ART 208

GenEd: B1,C1

**PHYS 304 ELECTROMAGNETISM (4)**

Four hours lecture per week

Prerequisite: PHYS 101 or 201, MATH 151

A calculus-based introduction to the concepts and principles of electricity and magnetism. Topics include: electrostatics, magnetism, electromagnetic theory, fields, electromagnetic waves, Maxwell's equations, and the Special Theory of Relativity. A strong emphasis will be on analytical problem-solving skills and applications.

**PHYS 306 MODERN PHYSICS (3)**

1.5 hours lecture twice per week

Prerequisites: PHYS 101 or PHYS 201, MATH 151

Survey of modern physics. Topics include: Special relativity, the Bohr model, Quantum mechanics; photons, the photoelectric effect, probability density, matter waves, Schrodinger mechanics of simple systems, the Uncertainty Principle, tunneling, spin and angular momentum, atomic and molecular structure. Selected topics from nuclear and solid state physics. Applications of the principles will be emphasized.

**PHYS 310 ELECTRONICS (4)**

Three hours lecture and two hours activity per week

Prerequisite: PHYS 101 or PHYS 201

This course covers the basic analog and digital electronic circuits used in a scientific laboratory. Students will be introduced to the operation of simple electronic devices, the basic underlying theory of their operation, and the applications of a few analog and digital ICs. The emphasis is on applications rather than theory. Consequently there is a strong hands-on component to the subject to enable students to gain practical experience. Experiments will include the testing of actual and virtual circuits, and data acquisition

**PHYS 315 INTRODUCTION TO BIOPHYSICS (4)**

Three hours lecture and two hours activity per week

Prerequisite: PHYS 200

Co-requisite: BIOL 300

This course applies physical methods to the study of biological systems, including transport processes and membrane phenomena, bioelectric phenomena, photosynthetic systems and visual systems. Biophysical methods will include the techniques of patch clamping and optical tweezers, and the measurement of action potentials and evoked responses. There will be an emphasis on modeling and on problem solving, with appropriate mathematics when necessary. The practical activity session will include computer modeling and simulation, and laboratory demonstrations and exercises. Same as BIOL 315

**PHYS 335 THE PHYSICS OF MUSIC (3)**

Two hours lecture and two hours lab activity per week

Provides an understanding of music and sound for students interested in music, speech, and language. Extensive use of demonstrations and sound analysis computer programs will be used. The format will include lectures, demonstrations, and hands-on use of the computer programs.

Same as PAMU 335

GenEd: B1,C1,Interdisciplinary

**PHYS 338 SCIENCE AND CONSCIENCE (3)**

Three hours lecture/discussion per week

This course is a team-taught, interdisciplinary course that examines various ethical issues within the sciences using case studies. The scientific, historical and social aspects of each case study will be examined from different perspectives. Students will learn scientific concepts which will facilitate an informed understanding of the ethical issues involved.

Same as ENGL 338

GenEd: B1,C2,Interdisciplinary

**PHYS 344 ENERGY AND SOCIETY (3)**

Three hours lecture per week

Survey of the physical, chemical, and engineering principles involved in the production of energy from current and potential sources and the economical, environmental, and political issues surrounding energy production. The course will also examine factors that influence worldwide energy policy. Examples of topics included: energy conservation, efficient usage and transportation of energy, energy resources, fossil fuels, active and passive solar energy, biomass, fuel cells, nuclear (fission and fusion) processes, and hydroelectric, tidal, geothermal, and wind power.

Same as CHEM 344

GenEd: B1,Interdisciplinary

**PHYS 345 DIGITAL IMAGE PROCESSING (3)**

Three hours lecture in the lab per week

Prerequisite: Consent of the instructor

An introduction to the basic concepts and techniques for digital image restoration and enhancement, analysis, coding and compression. The emphasis is on processes which analyze primarily two-dimensional discrete images represented at the pixel level, including filtering, noise reduction and segmentation. Fourier analysis techniques will be explored. Programming exercises will be used to implement the various processes, and their performance on synthetic and real images will be studied.

Same as MATH 345,COMP 345

GenEd: B1,B4,Interdisciplinary

**PHYS 416 RADIOBIOLOGY & RADIONUCLIDES (3)**

Three hours lecture per week

Prerequisite: BIOL 300 and PHYS 201

Topics include: nature and effects of ionizing radiation on biomolecular structures and living cells; applied radiobiology and radionuclides; genetic effects of ionizing radiation and methods of protection and dosimetry.

Same as BIOL 416

**PHYS 434 INTRODUCTION TO BIOMEDICAL IMAGING (4)**

Three hours lecture and two hours lab activity per week

Prerequisite: BIOL 210 or PHYS 200

The course will present an overview of biomedical images and imaging systems. The fundamental concepts used in several imaging modalities (such as projection radiography, mammography, DEXA, computed tomography, ultrasonography and magnetic resonance imaging) will be examined: the emphasis will be on an intuitive and descriptive presentation of the main components of these systems. Image formation and reconstruction will be addressed. The resulting clinical images will be correlated with the underlying structure and function of the organs, and the diagnostic utility and limitations of the images will be considered.

Same as BIOL 434,HLTH 434

GenEd: B1,E,Interdisciplinary

**PHYS 436 PHYSICS OF THE PERFORMING ARTS (3)**

Three hours lecture per week

Prerequisites: PA 202

Introduction to the physics of movement, lighting, sound and visual/aural perception. The course emphasizes factors that permit the performance artists to understand and more fully control their performance, with special attention to the study of audience perception. Demonstrations, experiments and video/computer simulations are used to analyze signals received by the performer and the audience.

Same as PA 436

GenEd: B1,Interdisciplinary

**PHYS 445 IMAGE ANALYSIS AND PATTERN RECOGNITION (3)**

Three hours lecture in the lab per week

Prerequisite: PHYS/COMP/MATH 345 or consent of the instructor

The course addresses the issue of analyzing the pattern content within an image. Pattern recognition consists of image segmentation, feature extraction and classification. The principles and concepts underpinning pattern recognition, and the evolution, utility and limitations of various techniques (including neural networks) will be studied. Programming exercises will be used to implement examples and applications of pattern recognition processes, and their performance on a variety of diverse synthetic and real images will be studied.

Same as COMP 445,MATH 445

GenEd: B1,B4,Interdisciplinary

**PHYS 448 TEAM BASED RESEARCH (3)**

Three hours lecture per week

Prerequisites: Upper division standing

This is a course where students learn to work together in multidisciplinary teams. Teams are assigned a specific practical problem, and have to apply a variety of physical principles to solve the problem. The solution will incorporate design principles, implementation and technological methodologies, and business/management insight.

GenEd: B1,Interdisciplinary



**PHYS 464 MEDICAL INSTRUMENTATION (4)**

Three hours lecture and two hours lab activity per week

Prerequisite: PHYS/BIOL/HLTH 434

The detection, acquisition, processing and display of diagnostic clinical images. The course will concentrate on the fundamentals of the design of the instruments and the use of appropriate reconstruction algorithms in (computed) radiography, (digital) fluoroscopy, computed tomography, ultrasound, magnetic resonance imaging and radionuclide imaging. Activities will include image reconstruction examples, investigation of recent innovations, and two trips to local radiology departments.

Same as BIOL 464

**PHYS 490 TOPICS IN PHYSICS (3)**

Three hours seminar per week

Prerequisite: Upper division standing and consent of the instructor

In-depth analysis of topics in physics. Topics vary each semester.

**PHYS 492 INTERNSHIP (3)**

Six hours activity per week

Prerequisite: Upper division standing and consent of the instructor

Supervised work and study in industrial or scientific setting involving development of skills related to applied physics. All students are required to present their projects at the Senior Colloquium.

Student Option: Graded or CR/NCR

**PHYS 494 INDEPENDENT RESEARCH (1-3)**

Variable hours per week

Prerequisite: Senior standing and consent of the instructor

Contracted laboratory and/or library research in selected areas within physics conducted under the supervision of a faculty member. All students are required to present their projects at the Senior Colloquium.

**PHYS 497 DIRECTED STUDIES (1-3)**

Variable hours per week

Prerequisite: Senior standing and program approval

Supervised project involving reading and library research in the field of physics. All students are required to present their projects at the Senior Colloquium.

**PHYS 499 SENIOR COLLOQUIUM (1)**

One hour seminar per week

Prerequisite: Senior standing

Oral presentations of current advances in the field, reports on students' projects in PHYS 492, 494 or 497 courses, and invited lectures.

**PHYS 510 ADVANCED IMAGE ANALYSIS TECHNIQUES (3)**

Three hours of lecture in the lab per week

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

Image processing course in the fundamentals of 2-D digital signal processing with emphasis in image processing techniques, image filtering design and applications. Programming exercises in Matlab (or Octave) will be used to implement the various processes, and their performance on synthetic and real images will be studied. Applications in medicine, robotics, consumer electronics and communications.

**PHYS 546 PATTERN RECOGNITION (3)**

Three hours of lecture in the lab per week.

Prerequisite: Admission to the Computer Science or Mathematics Graduate Program

New and emerging applications of pattern recognition - such as data mining, web searching, multimedia data retrieval, face recognition, and cursive handwriting recognition - require robust and efficient pattern recognition techniques. Statistical decision making and estimation are regarded as fundamental to the study of pattern recognition. The course addresses the issue of analyzing pattern content by feature extraction and classification. The principles and concepts underpinning pattern recognition, and the evolution, utility and limitations of various techniques (including neural networks) will be studied. Programming exercises will be used to implement examples and applications of pattern recognition processes, and their performance on a variety of diverse examples will be studied.



## POLITICAL SCIENCE

### **POLS 102 COMPARATIVE GOVERNMENT (3)**

Three hours lecture/discussion per week

This course introduces the student to the contemporary study of comparative politics. The theme for the course will be democratization and democracy. Topics will include political institutions (constitutions, executives, legislatures, courts, and political parties), political behavior (voting, group activism, and other modes of political participation), and political ideas (political culture, socialization, status of women, and political economy).

GenEd: D

### **POLS 103 INTRODUCTION TO INTERNATIONAL POLITICS (3)**

Three hours lecture/discussion per week

This course offers an overview of current theory, topics, and research in the Political Science subfield of International Relations. Emphasis will be placed on the role of power in international affairs, the structure of the international system, the meaning of security, and the importance of economic relations between nations and regions.

GenEd: D

### **POLS 140 CALIFORNIA GOVERNMENT AND POLITICS (1)**

One hour of lecture per week

Introduction to the structure and function of California state government. Satisfies California state and local government requirement for students who have taken American Government without a California component or who receive Advanced Placement credit for American Government

### **POLS 150 AMERICAN POLITICAL INSTITUTIONS (3)**

Three hours lecture per week

Examines the major American national and state political institutions and processes, including the presidency, congress, the federal court system, political parties, the electoral system, and major institutions of state government. This course emphasizes how these institutions and processes function within changing American Constitutional principles of the role of law, federalism, shared power, and individual and civil rights. Meets Title 5 US Constitution and State and Local Government requirement.

### **POLS 300 POLITICAL SCIENCE RESEARCH METHODS (3)**

Three hours lecture per week

Prerequisite: SOC/PSY 203

Introduction to research methods commonly used in political science. Topics include: research design, literature reviews, measurement and observation. Covers quantitative as well as qualitative methods of inquiry.

### **POLS 301 POLITICAL THEORY (3)**

Three hours lecture/discussion per week

Political Theory is devoted to assessing the authority, legitimacy, and justification of various kinds of political arrangements. How should people live together in society? Is democracy really the best form of government? Can a society legislate morality? What do individuals owe their government? What does their government owe them? This course will consider these and related questions through an introductory survey of works by major political philosophers such as Plato, Hobbes, Locke, Mill, and Marx. Ramifications for issues such as freedom of speech, religious liberty, affirmative action, women's rights, economic inequality, criminal punishment, civil disobedience, and revolution will also be explored.

### **POLS 303 STATISTICAL APPLICATIONS IN THE SOCIAL SCIENCES (3)**

Two hours lecture and two hours activity per week

Prerequisites: MATH 105 or equivalent

This course introduces students to quantitative methods as used in social science research and prepares them for statistical literacy. Students will learn to use descriptive and inferential statistics to test hypotheses. Basic topics covered in the class include graphical representations, central tendency and variability, chi-squared and other nonparametric techniques, correlation and regression, and mean difference tests as applied to research methods and data commonly used in the social sciences. Measurement and psychometric issues unique to social science data will be covered. Students will use SPSS to analyze data.

Same as SOC 303, PSY 303

### **POLS 305 GENDER AND POLITICS (3)**

Three hours lecture per week

Examines the role of women as political actors in the United States. Also explores the impact of public policies on women in America.

### **POLS 306 THE POLITICS OF RACE & ETHNICITY (3)**

Three hours lecture per week

Examines the politics and policy consequences of racial and ethnic identity in the United States. Special attention will be paid to issues of race and politics in contemporary southern California.

GenEd: C3B

### **POLS 315 CONGRESS AND THE PRESIDENCY (3)**

Three hours lecture/discussion per week

This course will examine the ongoing struggle between the President and Congress to enact public policy. Students will study the two institutions singly and in their interaction. Particular attention will be placed on the electoral incentives of members of each institution and the inherent difficulties of cooperation in a system of separation of powers.

**POLS 316 STATE AND LOCAL POLITICS & POLICY (3)**

Three hours lecture per week

Examines the structures, functions, policies, politics and administration of subnational governments in the United States. Satisfies the California State and local government requirement for students who have taken American Government without a California component or who have received Advanced Placement credit for American Government.

**POLS 317 JUDICIAL POWER AND PROCESS (3)**

Three hours lecture per week Study of the American court system, including study of the history, organization, politics and policymaking of the judicial branch.

**POLS 318 THE ELECTORAL PROCESS (3)**

Three hours lecture per week

Explores political parties, campaigns, elections and voting behavior in the American context.

**POLS 320 PUBLIC ADMINISTRATION (3)**

Three hours lecture/discussion per week

This course is an introduction to public administration in the United States at the national, state and local levels of government. It will explore the various trends in American public administration, examine the unique circumstances involved in administering public organizations and look at different techniques of public management. Topics of study include: the structure and function of the American system of federalism, organizational theory and behavior, public budgeting and finance, public human resources management and the role of women in public administration.

**POLS 321 PUBLIC BUDGETING (3)**

Three hours lecture per week

Examines the major concepts of public budgeting and finance in the United States. Key topics of study include: expenditure estimation, revenue forecasting, capital budgeting, budget reform and financial management. The politics that characterizes the budgetary process will be emphasized throughout.

Same as FIN 321

**POLS 325 AMERICAN PUBLIC POLICY (3)**

Three hours lecture per week

A study of how public policy is formulated and implemented, using several policy areas such as health, transportation, housing, energy, and welfare policy as areas for specific examination. The course will review several contemporary perspectives on policy making.

**POLS 326 GOVERNMENT AND POLITICS OF SELECTED NATIONS (3)**

Three hours lecture per week

An intensive study of the politics and government of a nation or group of nations. Topics will include study of the government structure, political processes, political behavior and public policies. Areas of focus vary by semester. Repeatable based on topic.

**POLS 327 INTERNATIONAL RELATIONS OF SELECTED AREAS (3)**

Three hours lecture per week

Examination of the international political and economic relations among nations of a particular area of the world. Area of focus varies by semester. Repeatable by topic.

**POLS 328 UNITED STATES FOREIGN POLICY (3)**

Three hours lecture per week

Examines the process of foreign policy making by the United States from several theoretical perspectives.

GenEd: D

**POLS 330 POLITICAL SOCIOLOGY (3)**

Three hours lecture per week

Examines power and power structures at all levels of society. The roles of social classes, movements, and institutions in shaping the political process and social influences on political behavior are explored.

Same as SOC 330

GenEd: C3B,D,Interdisciplinary

**POLS 331 NARRATIVES OF THE WORKING CLASS (3)**

Three hours lecture per week

Examines the lives of working people using various thematic approaches and disciplinary methodologies. Materials included literature, film, and case studies.

Same as ECON 331, ENGL 331, SOC 331, HIST 331

GenEd: C2,D,Interdisciplinary

**POLS 335 POLITICS AND FILM (3)**

Two hours lecture and two hours activity per week.

Explores the themes, issues and processes of politics through an in depth study of selected films. Area of focus varies by semester.

GenEd: Interdisciplinary

Same as COMM 335

GenEd: D,Interdisciplinary

**POLS 340 POLITICS AND THE ENVIRONMENT (3)**

Three hours lecture per week

Exploration of environmental politics in both the international and domestic contexts.

GenEd: Interdisciplinary

Same as ESRM 340

GenEd: D,Interdisciplinary

**POLS 345 SCIENCE AND PUBLIC POLICY (3)**

Three hours lecture per week

Examines the relationship between science, politics, and public policy and prepares students to make informed decisions concerning the societal implications of many rapidly advancing avenues of scientific research.

Same as BIOL 345

GenEd: D,Interdisciplinary



**POLS 401 CONSTITUTIONAL LAW (3)**

Three hours lecture per week

Explores how the U.S. Constitution creates and allocates power within the American structure of government. Examines the role of the U.S. Supreme Court in the political struggles over the distribution and uses of power in the American Constitutional system.

**POLS 402 CIVIL RIGHTS AND CIVIL LIBERTIES (3)**

Three hours lecture per week

Examines the scope of rights and liberties under the United States Constitution. Includes a study of the leading decisions of the United States Supreme Court in this area.

**POLS 430 POLITICAL COMMUNICATION (3)**

Three hours lecture per week

An analysis of the relationship between mass media and political decision-making. Topics covered include: political communication theories and trends, the relationship between political institutions and the press in the US and in other countries, elections, debates, political campaigning and advertising, new media and politics, political socialization, education, politics and popular culture.

GenEd: Interdisciplinary

Same as COMM 430

GenEd: D, Interdisciplinary

**POLS 431 EDUCATION POLICY AND POLITICS (3)**

Three hours lecture per week

Prerequisites: POLS 150 for POLS students or Consent of Instructor

Examines the roles of political institutions in education policy making, the political factors that shape policy formulation and implementation, the values and assumptions of different types of policies, and the links between policy and local-level implementation. Analyzes current and pending policies' effect on schools and classrooms to illustrate how education policy reflects American politics.

Same as EDUC 431

GenEd: D, Interdisciplinary

**POLS 490 SPECIAL TOPICS IN POLITICAL SCIENCE (3)**

Three hours lecture per week

In depth analysis of current topics in Political Science. Topics vary each semester. Repeatable by topic

**POLS 492 SERVICE LEARNING IN POLITICAL SCIENCE (3)**

One hour lecture per week and two hours activity per week

Community based service combined with course work and reflection on a topic with political or policy significance.

**POLS 493 INTERNSHIP IN POLITICAL SCIENCE (3)**

Three hours lecture per week

Prerequisites: Consent of Instructor

Community based internship in political science.

**POLS 494 INDEPENDENT RESEARCH (1-3)**

Prerequisite: Senior standing or consent of the instructor  
Independent research in Political Science conducted under the supervision of a faculty member.

**POLS 499 CAPSTONE (3)**

Three hours lecture per week

Integrating and culminating experience in which students work in teams to analyze political or policy issues in a community-based setting.





## PSYCHOLOGY

### PSY 100 INTRODUCTION TO PSYCHOLOGY (3)

Three hours lecture per week

An introduction to the theories, research and applications that constitute the field of psychology. Emerging issues in the field of psychology, what different types of psychologists do, and how to critically evaluate psychological literature will be covered.

GenEd: D,E

### PSY 202 BIOSTATISTICS (3)

Three hours lecture/laboratory per week

Prerequisite: A passing score on the Entry Level Mathematics Exam (ELM) or MATH 105 or equivalent. Critical reasoning using a quantitative and statistical problem-solving approach to solve real-world problems. Uses probability and statistics to describe and analyze biological data collected from laboratory or field experiments. Course will cover descriptions of sample data, probability and empirical data distributions, sampling techniques, estimation and hypothesis testing, ANOVA, and correlation and regression analysis. Students will use standard statistical software to analyze real world and simulated data.

Same as MATH 202  
GenEd: B3

### PSY 210 LEARNING, COGNITION AND DEVELOPMENT (3)

Three hours lecture per week

This course presents an overview of the theories of learning, cognition, and human development. Major theories of learning and of psychological, emotional, ethical and physical development will be covered with emphasis on the application of these theories in real life settings such as schools and other organizations.

GenEd: E

### PSY 211 COGNITION AND LEARNING (3)

Three hours lecture per week

Examines psychological theories of cognition as they apply to learning. Theories introduced in this course will seek to explain learning phenomenon and provide a conceptual framework for understanding and discussing behavior and cognition. Practical applications and current research in the cognitive sciences will also be discussed.

### PSY 212 NEUROBIOLOGY & COGNITIVE SCIENCE (3)

Three hours lecture per week

Prerequisite: BIOL 100 or BIOL 200 or BIOL 201. Principles of brain organization and function underlying behavior. Topics include neuroanatomy and physiology of language, vision, sexual behavior, memory and abnormal behavior.

Same as BIOL 212  
GenEd: B2,E

### PSY 213 DEVELOPMENTAL PSYCHOLOGY (3)

Three hours lecture per week

Prerequisite: PSY 100

This course represents an in-depth survey of theory and research in developmental psychology throughout the life span. The course introduces students to the biological, cognitive, emotional, social, and linguistic development from the prenatal period to adulthood.

GenEd: D,E

### PSY 217 THEORIES OF PERSONALITY (3)

Three hours lecture per week

This course considers the major theoretical, application, research, and assessment issues in the study of personality. Emphasis will be placed on the theoretical aspects of personality and the different ways in which these theories are validated. The course will also explore some of the more commonly used personality assessment measures, cultural influences on personality theory, as well as at least one non-Western theory of personality.

### PSY 220 HUMAN SEXUAL BEHAVIOR (3)

Three hours lecture per week

This course covers knowledge about the processes and variations in: sexual functions and reproduction; intimate relationships; sexual and gender role development and behavior; and the social, cultural, historical and moral contexts of sex and love.

GenEd: E

### PSY 300 PSYCHOLOGICAL RESEARCH AND STATISTICAL METHODS I (3)

Two hours lecture and two hours laboratory per week

Prerequisite: PSY 202, 212, 213, 217 and Upper Division standing, or consent of the instructor

Introduction to research methodology and a basic framework to evaluate social and behavioral science research. Topics include how to apply the scientific method within the field of psychology and the social sciences, ethical guidelines and issues related to the research in, and practice of, psychology, how to evaluate research and popular claims in psychology with a critical eye, and computer applications related to statistics and research. Coursework on inferential and descriptive statistical methods will build on material from PSY 202.

**PSY 301 PSYCHOLOGICAL RESEARCH AND STATISTICAL METHODS II (3)**

Two hours lecture and two hours laboratory per week

Prerequisite: PSY 300 with grade C or better

A continuation of PSY 300. Advanced research methodology within the empirical framework in the behavioral sciences. Topics include how to apply the scientific method within the field of psychology and the social sciences, ethical guidelines and issues related to the research in, and practice of, psychology, how to evaluate research and popular claims in psychology with a critical eye, and computer applications related to statistics and research. Coursework on inferential and descriptive statistical methods will build on material from PSY 300.

**PSY 303 STATISTICAL APPLICATIONS IN THE SOCIAL SCIENCES (3)**

Two hours lecture and two hours activity per week

Prerequisites: MATH 105 or equivalent

This course introduces students to quantitative methods as used in social science research and prepares them for statistical literacy. Students will learn to use descriptive and inferential statistics to test hypotheses. Basic topics covered in the class include graphical representations, central tendency and variability, chi-squared and other nonparametric techniques, correlation and regression, and mean difference tests as applied to research methods and data commonly used in the social sciences. Measurement and psychometric issues unique to social science data will be covered. Students will use SPSS to analyze data.

Same as SOC 303, POLS 303

**PSY 310 HISTORY & SYSTEMS OF PSYCHOLOGY (3)**

Three hours lecture per week

Prerequisite: Upper Division standing or consent of the instructor

This course examines the historical development of psychological thought and methodology, from its origins in philosophy, its attempts to emulate the natural sciences, through the Diaspora of contemporary psychological thought. The major schools of psychology will be explored in context of their philosophical, cultural and ethical influences.

**PSY 312 SOCIAL PSYCHOLOGY (3)**

Three hours lecture per week

Prerequisite: Upper Division standing or consent of the instructor

This course is an in-depth survey of the major areas of social psychology. Emphasizes an understanding of the important methods, terms, theories, and findings in the field of social psychology.

**PSY 313 CLINICAL & ABNORMAL PSYCHOLOGY (3)**

Three hours lecture per week

Examines the major diagnostic, etiologic, and treatment options for a variety of psychopathologies and psychological disorders. Areas to be covered include how psychologists diagnose, assess, understand the etiology, and treat psychological illness and problems. Topics include: disorders related to anxiety, stress & trauma, mood, schizophrenia and psychosis, eating and substance abuse, memory & organic dysfunctions, personality; social, cultural, and legal issues related to psychopathology.

**PSY 314 BEHAVIORAL NEUROSCIENCE (4)**

Three hours lecture and two hours laboratory per week

Neuroanatomy, physiology, pharmacology and their application to cognition, emotion, language, learning, motivation, perception and memory.

**PSY 316 SENSATION AND PERCEPTION (3)**

Three hours lecture per week

Prerequisite: Upper division standing

This course will examine the psychological and physiological mechanisms underlying sensation and perception. Topics include the measurement of sensation and the physiological basis of sensation and perception.

**PSY 333 MEASUREMENT AND TESTING OF GROUPS AND INDIVIDUALS (3)**

Three hours lecture per week

Prerequisite: Upper Division standing

Covers the principles of measurement as applied to group standardized measures of achievement, special aptitude, intelligence, personality, and interest for use in educational settings. Survey the administering, scoring, and interpreting of these measures. Language and culture issues related to testing will be explored.

GenEd: D, Interdisciplinary

**PSY 337 PSYCHOLOGICAL ETHICS AND MORAL PHILOSOPHY (3)**

Three hours lecture per week

Prerequisite: Upper Division standing

Provides students with a broad overview of some of the main philosophical and moral ideas that are used as a basis for resolving debates in psychology, the mental health fields and public health.

GenEd: D, Interdisciplinary

**PSY 338 PSYCHOLOGY OF ART AND ARTISTS (3)**

Three hours lecture per week

An inquiry into the mind of the artist and the psychological dynamics that underlie the creative process. Emphasis is placed on deciphering personal allegory and universal symbolism hidden within a wide range of visual and conceptual genre in painting, sculpture, film and music. The self-image of the artist will be examined from private and public point of view.

Same as ART 338

GenEd: C1, E, Interdisciplinary

**PSY 339 PSYCHOLOGY AND LITERATURE (3)**

Three hours lecture per week

This course looks at the ways in which human psychology manifests in literature and the ways literature instructs us about human psychology. Through reading, writing about, and discussing texts with particularly rich psychological content, issues related to mental health and the human condition will be explored. The course will also cover some theoretical and technical aspects of psychology relevant to the readings.

Same as ENGL 339

GenEd: C2,D,Interdisciplinary

**PSY 340 HISTORY AND PSYCHOLOGY OF NAZI GERMANY (3)**

Three hours lecture per week

Prerequisite: Upper Division standing

Examines the historical and psychological roots of the Nazi movement in Germany. Areas covered will include the mass psychology of fascism, the psychopathology of Nazi leaders, and the psychological impact of the holocaust.

Same as HIST 340

GenEd: D,E,Interdisciplinary

**PSY 342 COMPLEMENTARY AND ALTERNATIVE HEALTH (3)**

Three hours lecture per week

Examines alternatives to conventional health approaches such as acupuncture, herbal remedies, relaxation, therapeutic massage, naturopathy, qigong, and yoga. Emphasis on individual and social lifestyle approaches, legal and ethical barriers, governmental status and support.

Same as NRS 342

GenEd: C3B,E,Interdisciplinary

**PSY 344 PSYCHOLOGY AND TRADITIONAL ASIAN THOUGHT (3)**

Three hours lecture per week

Prerequisite: Upper Division standing or consent of instructor

This course examines the differences and similarities between the Western practice of psychology and traditional Asian systems of philosophy and religion. Topics include: health, well-being and enlightenment, pathology, Buddhism, Daoism, and depth psychologies.

GenEd: C3B,E,Interdisciplinary

**PSY 345 INDIVIDUALS WITH DISABILITIES IN SOCIETY (3)**

Three hours lecture per week

Major types of disabilities and giftedness, including definitions, causes, characteristics, and educational implications. Topics include: disability perspectives and social, legal, and educational considerations of disability issues.

Same as SPED 345

GenEd: D,E,Interdisciplinary

**PSY 346 HUMAN MOTIVATION (3)**

Three hours lecture per week

Examines different biological, social, learning and cognitive approaches to the topic of motivation. The key theories of motivation will be reviewed and applied. Topics include: contemporary, psychological, biological and sociocultural principles, issues including drug addiction and gang affiliation.

GenEd: E,Interdisciplinary

**PSY 348 HEALTHY AGING**

Three hours lecture per week

Explores physical, cultural and psychosocial factors influencing health issues during the elderly years of life. Topics include aging stereotypes, cultural and family influences on the elderly, physiology of aging, lifestyles choices associated with healthy aging, and end of life care.

GenEd: D,E, Interdisciplinary

Same as NRS 348, SOC 348

**PSY 400 CASE STUDIES IN PSYCHOPATHOLOGY AND CLINICAL PSYCHOLOGY (3)**

Three hours lecture per week

Prerequisites: PSY 313 or consent of the instructor

An advanced undergraduate course on the etiology, classification, and treatment of human psychopathology.

**PSY 410 PSYCHOLOGICAL TESTING (3)**

Three hours lecture per week

Prerequisite: PSY/MATH 202 or consent of the instructor

Surveys the administration and interpretation of objective and projective personality and educational assessment instruments. Basic assessment issues will be discussed as well as ethical and cultural issues related to testing.

**PSY 415 ASSESSMENT OF CHILDREN (3)**

Three hours lecture per week

Prerequisite: PSY 333 or PSY 410

An intensive study in the cognitive-intellectual, emotional, and developmental assessment of children. Topics include: testing instruments, concepts of intelligence, cognition, emotional development, and specific developmental disorders in children, issues of language and culture related to the assessment of children.

**PSY 424 ORGANIZATIONAL BEHAVIOR (3)**

Three hours lecture per week

Prerequisite: MGT 307 or by Instructor Consent

An application of behavioral science theory and concepts with a focus on individual, interpersonal and group processes in a diverse work force. Topics include personality traits, emotions, values, work attitudes, work motivation, organizational politics, group effectiveness and conflict. Extensive use of individual and group case analysis.

Same as MGT 424

**PSY 432 SEMINAR IN LEADERSHIP (3)**

Three hours seminar per week

Prerequisite: Consent of the instructor

This course gives students an opportunity to both study and experience communicative, managerial, psychological, and sociological perspectives related to leadership. This includes in-depth study of aggression and dominance, group structure and behavior, decision-making, and the role of personality in leadership.

GenEd: D,E,Interdisciplinary

**PSY 436 PSYCHOLOGY AND HISTORY OF EAST ASIAN WARRIOR CULTURES (3)**

Three hours lecture per week

Prerequisite: Upper division standing or consent of the instructor

Examines the psychological and historical roots of warrior cultures in East Asia. Characteristics such as duty, enlightenment, honor, loyalty, and discipline will be examined in the context of the individual and group psychology of warrior cultures throughout history. Psychological and historical conceptions of violence, aggression, and strategy will also be explored. Students will be encouraged to relate values derived from Asian warrior cultures to their own lives, while reflecting on the applicability of these ideas to modern life.

Same as HIST 436

GenEd: D,E,Interdisciplinary

**PSY 441 THE PSYCHOLOGY OF SPACE (3)**

Three hours lecture per week

Prerequisite: Upper division standing

Examines different psychological views of space and time, including how we define, and organize space and place. The course will examine the idea of psycho-geography as represented in the works of Yi Fu Tuan, Gaston Bachelard's *The Poetics of Space*, and Mircea Eliade's concept of sacred space, and James Hillman's concept of the *anima mundi*. The course will also look at how different cultures understand space through an examination of traditional philosophies, religions, myths and rituals.

GenEd: D,E,Interdisciplinary

**PSY 445 ADOLESCENT DEVELOPMENT (3)**

Three hours lecture per week

Prerequisite: Upper Division Standing, PSY 213 or Consent of the Instructor

Psychosocial dynamics of adolescents and young adults. Topics include physical and maturational development, theories of adolescence, family and peer group influences, sexuality, cognitive and vocational development, schooling and youth culture.

GenEd: D,E,Interdisciplinary

**PSY 449 HUMAN-COMPUTER INTERACTION (3)**

Three hours lecture in the lab per week

Prerequisite: Programming experience or consent of the instructor

The information exchange between humans and computer systems will be examined. Aspects of input/output devices, software engineering, and human factors will be discussed with respect to human-computer interactions. Topics include: text and graphic display; user modeling; program design, debugging, complexity and comprehension; and current research studies and methodologies.

Same as COMP 449

GenEd: B4,E,Interdisciplinary

**PSY 450 ADVANCES IN NEURAL SCIENCE (3)**

Three hours lecture per week

Prerequisite: PSY 212 and PSY 314

Surveys current research on the nervous system, its development, and its control of behavior. The course also describes some neurological and behavioral disorders that are both instructive scientifically and important clinically. Includes inferences that can be made about human brain functions from the effects of neurological trauma and clinical tests.

**PSY 457 CRIMINAL BEHAVIOR (3)**

Three hours lecture per week

Prerequisite: PSY 313 or consent of the instructor

An introduction to the fundamentals of criminal psychology through the study of the psychological factors which relate to or cause criminal behavior in individuals. The practice of forensic psychology, the legal system, law enforcement psychology, prison psychology, and the criminal behavior of groups will also be discussed.

**PSY 460 ADDICTION STUDIES (3)**

Three hours lecture per week

Prerequisites: PSY 100, Psy 217, and PSY 313

Focuses on the influence of addictive disorders on individuals, family and society. Applies a multidisciplinary analytical framework. Topics include theories of addiction, pharmacology of drug use, assessment, family and community responses, treatment interventions, and policy issues related to societal responses to and treatment of addictions.

**PSY 461 ADVANCED TOPICS IN CHILD AND ADOLESCENT DEVELOPMENT (3)**

Three hours lecture per week

Prerequisite: PSY 210 or PSY 313 or consent of instructor

Represents an advanced study of human growth and development. Repeatable by topic.



**PSY 470 SEMINAR IN FREUD AND OBJECT RELATIONS THEORY (3)**

Three hours lecture per week

Prerequisite: PSY 313 or consent of the instructor

An overview of the works of Freud and neo-Freudian schools of thought. Emphasis on both structural and developmental models in psychoanalytic thought as applied to the individual and to society at large. Feminist and non-Western cultural interpretations of these theories will also be discussed.

**PSY 471 SEMINAR IN JUNGIAN AND ARCHETYPAL PSYCHOLOGY (3)**

Three hours lecture per week

Prerequisite: PSY 313 or consent of the instructor

An overview of the works of Jung and neo-Jungian schools of thought. Emphasis on both structural and phenomenological views of Jung's work as applied to the individual and to society at large. Structural theories of mythology both Eastern and Western will be discussed in context of Jung's work.

**PSY 473 BIZARRE BEHAVIOR AND CULTURE BOUND SYNDROMES (3)**

Three hours lecture per week

Prerequisite: PSY 313 or consent of the instructor

This course examines behaviors which seem to be at the extreme edge of the human repertoire. Nevertheless, such behaviors have at different times and cultures been considered normal. Students in this course will examine such behaviors with an open mind, while attempting to understand that so-called normal behaviors in our own culture could be construed as bizarre.

**PSY 483 APPLIED MULTIVARIATE ANALYSIS (4)**

Three hours lecture and two hours laboratory per week

Prerequisite: PSY 202 and PSY 301 or consent of the instructor

An applied overview of multivariate data analysis. Topics include multiple regression, discriminant analysis, canonical correlation analysis, factor analysis, cluster analysis, conjoint analysis, multivariate analysis of variance and an introduction to structural equation modeling.

**PSY 490 TOPICS IN PSYCHOLOGY (1-3)**

Up to Three hours lecture per week

Prerequisite: PSY 301 or consent of the instructor

Provides an in-depth study of some aspect of psychology. Repeatable by topic.

**PSY 492 INTERNSHIP OR SERVICE LEARNING (1-3)**

Prerequisite: Upper Division standing and consent of the instructor

Supervised work/volunteer experience in an appropriate setting with supervision in the field from an appropriate person with credentials and/or experience in a specialty related to psychology. Students are required to write a report of their experience. Supervised work/volunteer experience in an appropriate setting. Includes supervision in the field from an appropriate person with credentials and/or experience in a specialty related to psychology. Students are required to write a report of their experience.

**PSY 494 INDEPENDENT RESEARCH IN PSYCHOLOGY (1-3)**

Prerequisite: Upper Division standing and consent of the instructor

An independent research project for undergraduate students supervised by a faculty member. A written report of the research is required.

**PSY 497 DIRECTED STUDY IN PSYCHOLOGY (1-3)**

Prerequisite: Upper Division standing in Psychology and consent of the instructor

An intensive study of some aspect of psychology, usually via an in-depth review of the literature. Intended for undergraduate students supervised by members of the psychology faculty. A written report summarizing the study is required.

**PSY 499 SENIOR CAPSTONE COURSE (1-3)**

Prerequisite: Upper Division standing in Psychology and consent of the instructor

This course is an interdisciplinary experience in which students work in teams, contributing their expertise to a community-based project group.



## SOCIOLOGY

### **SOC 100 INTRODUCTION TO SOCIOLOGY (3)**

Three hours lecture per week

An introductory study of the basic concepts, theoretical approaches, and methods of sociology. Topics include: the analysis and explanation of social structure, social change, group dynamics, socialization and self, social stratification, and cultural diversity.

GenEd: D

### **SOC 201 SOCIAL PROBLEMS IN A SERVICE LEARNING CONTEXT (3)**

Three hours lecture per week

Examines social problems in the United States from a sociological perspective. Social problems in the community such as homelessness, poverty, and racism will be explored through integrating classroom discussion, lecture, reading and required community service.

GenEd: D

### **SOC 202 INTRODUCTION TO RESEARCH METHODS (3)**

Three hours lecture per week

Prerequisite: SOC 100

Introduction to the methodology used by sociologists and other social scientists to analyze, describe, and theorize about social issues and structures. Emphasis in both quantitative and qualitative research strategies, the role of theory in guiding research, and the application of scientific logic in the social sciences.

### **SOC 303 STATISTICAL APPLICATIONS IN THE SOCIAL SCIENCES (3)**

Two hours lecture and two hours activity per week

Prerequisites: MATH 105 or equivalent

This course introduces students to quantitative methods as used in social science research and prepares them for statistical literacy. Students will learn to use descriptive and inferential statistics to test hypotheses. Basic topics covered in the class include graphical representations, central tendency and variability, chi-squared and other nonparametric techniques, correlation and regression, and mean difference tests as applied to research methods and data commonly used in the social sciences. Measurement and psychometric issues unique to social science data will be covered. Students will use SPSS to analyze data.

Same as PSY 303, POLS 303

### **SOC 310 RESEARCH METHODS IN SOCIOLOGY (3)**

Two hours lecture and two hours laboratory per week

Prerequisite: SOC 100; SOC 203 or equivalent; and, upper division standing

An introduction to the quantitative methods sociologists use to study human societies and their members. Topics include: survey research design, hypothesis formulation, questionnaire and interview design, scaling, sampling, data preparation and statistical analysis of quantitative data through SPSS. The political and ethical issues surrounding social research also will be explored.

### **SOC 320 SOCIOLOGY OF POPULAR CULTURE (3)**

Three hours lecture per week

Prerequisite: SOC 100

Examines popular culture from a sociological and a comparative perspective. Emphasizes the impact of mass media on individual behavior, marketing and consumption of amusements and entertainments in the domestic and global marketplace.

Same as ENGL 320

### **SOC 330 POLITICAL SOCIOLOGY (3)**

Three hours lecture per week

Examines power and power structures at all levels of society. The roles of social classes, movements, and institutions in shaping the political process and social influences on political behavior are explored

Same as POLS 330

GenEd: C3B,D,Interdisciplinary

### **SOC 331 NARRATIVES OF THE WORKING CLASS (3)**

Three hours lecture per week

Examines the lives of working people using various thematic approaches and disciplinary methodologies. Materials included literature, film, and case studies.

Same as ECON 331, ENGL 331, HIST 331, POLS 331

GenEd: C2,D,Interdisciplinary

### **SOC 340 SOCIAL MOVEMENTS (3)**

Three hours lecture per week

Prerequisites: SOC 100, SOC 201, SOC 202

Analyzes the causes and consequences of organized social action. Examines theories of social movements through case studies.

### **SOC 348 HEALTHY AGING**

Three hours lecture per week

Explores physical, cultural and psychosocial factors influencing health issues during the elderly years of life. Topics include aging stereotypes, cultural and family influences on the elderly, physiology of aging, lifestyles choices associated with healthy aging, and end of life care.

GenEd: D,E, Interdisciplinary

Same as PSY 348, NRS 348

### **SOC 350 SOCIAL STRATIFICATION: THEORIES OF SOCIAL CLASS (3)**

Three hours lecture per week

Prerequisite: SOC 100 and 300 or equivalent

Analysis of the distribution of wealth, prestige, and power. Examines various approaches to the study of the causes of poverty, life chances of the poor, lifestyles of the wealthy, upward and downward mobility, and class and group conflict in society.

**SOC 360 RACE & ETHNICITY (3)**

Three hours lecture per week

Prerequisite: SOC 100

This course examines issues of race, religion, ethnic relations and power in the U.S. and elsewhere. Power, prejudice, and discrimination relating to minority status are emphasized.

**SOC 370 CRIME AND SOCIETY (3)**

Three hours lecture per week

Prerequisites: SOC 100, SOC 201, SOC 202

Examination of forms, causes and the extent of crime in the United States. Focuses on why people break the law, the genesis of norms, and how the law is applied.

**SOC 410 SOCIOLOGY OF GENDER & SEXUALITY (3)**

Three hours of lecture per week

Prerequisite: SOC 100 and SOC 203

Analysis of gender and sexuality in human society with special attention to gendered socialization practices, issues in equality from historic as well as contemporary and cross-cultural perspectives, and sexual identities and behaviors.

**SOC 412 SEX, LOVE AND MONEY: THE FAMILY (3)**

Three hours lecture per week

Prerequisites: SOC 100, SOC 201, SOC 202

Analysis of the family as a social institution that meets specific social needs; as a social construction that is culturally bound and malleable, and as a source of social exchange and currency. Presents an understanding of contemporary intimate life in the U.S. by examining the social history of families and current areas of concern.

**SOC 420 CLASSICAL SOCIOLOGICAL THEORY (3)**

Three hours lecture per week

Prerequisite: SOC100, SOC 201 and SOC 202

This course explores the origin and development of the discipline of sociology with a particular focus on the classical period: the 19th century to mid-20th century. Students will develop an appreciation for the roots of sociological theorizing by reading the work of such thinkers as Emile Durkheim, Max Weber, W.E.B. DuBois, Karl Marx and others.

**SOC 421 CONTEMPORARY SOCIOLOGICAL THEORY (3)**

Three hours lecture per week

Prerequisites: SOC 100, SOC 201, SOC 202 and SOC 420

Modern sociological paradigms from the 1960s forward to the present period including Marxism, neoMarxist modern theory, critical theory, symbolic interaction, rational choice, feminist theories and theories on modernity and post-modernity.

**SOC 440 POPULATION STUDIES (3)**

Three hours lecture per week

Prerequisites: SOC 100 and MATH 202

This course focuses on the basic concepts, skills and issues in demography and population studies. It will apply concepts to contemporary population issues such as family demography, urban transition, environmental degradation, and economic development.

Same as ESRM 440

GenEd: D, Interdisciplinary

**SOC 448 GLOBALIZATION AND DEVELOPMENT (3)**

Three hours lecture per week

Prerequisite: SOC 100

Examines empirical and theoretical issues of globalization from a sociological perspective, to understanding how the forces of globalization affect economic, political and cultural systems of both developed and developing nations.

Same as ECON 448, BUS 448

GenEd: D, Interdisciplinary

**SOC 490 TOPICS IN SOCIOLOGY (3)**

Three hours per week

Prerequisite: Consent of instructor

In-depth analysis of current topics in sociology. Topics vary. Repeatable by topic.

**SOC 492 FIELD EXPERIENCE IN SOCIOLOGY (2-3)**

Prerequisite: SOC 203, SOC 310, Junior-level standing, GPA 3.0 and above, and consent of instructor

Field experience in Sociology offers an internship placement and/or applied research opportunity for advanced students of Sociology.

**SOC 494 INDEPENDENT STUDY (1-3)**

Prerequisite: Consent of instructor

Independent study in Sociology. Up to 3 units may be applied to the major. Independent study is for advanced students who wish to propose a course of study not currently offered in the curriculum.

**SOC 499 CAPSTONE (3)**

Three hours lecture per week

Prerequisite: Completion of all core courses in Sociology

Complete a research project based on a specific area in the discipline of sociology. Research projects may incorporate service to an area agency.

## SPANISH

### **SPAN 101 ELEMENTARY SPANISH I (4)**

Four hours lecture per week

This course addresses the development of basic functional proficiency in the Spanish language. As students develop their listening, speaking, reading and writing skills, they acquire knowledge about cultural similarities and differences between the U.S. and the Spanish-speaking world. Not intended for students with two or more years of high school Spanish taken within the last three years or with credit in college level Spanish. GenEd: C3A

### **SPAN 102 ELEMENTARY SPANISH II (4)**

Four hours lecture per week

Prerequisite: SPAN 101 or equivalent

Continued development of basic functional proficiency in Spanish. As students continue to develop their listening, speaking, reading and writing skills, they will acquire more basic knowledge about the culture and civilization of the Spanish-speaking world.

GenEd: C3A

### **SPAN 105 ELEMENTARY SPANISH FOR K-12 TEACHERS (3)**

Three hours of lecture per week

Prerequisite: SPAN 101 or equivalent

Fosters the development of basic functional proficiency in the Spanish language, with emphasis on terminology and interactions related to school settings. The course is designed for those interested in learning to better communicate with Spanish-speaking members of the school population. Topics will include: Spanish alphabet, classroom vocabulary, and communication with parents.

### **SPAN 201 INTERMEDIATE SPANISH I (4)**

Four hours lecture per week

Prerequisite: SPAN 102 or equivalent

Through the study of the culture and civilization of the Hispanic world, students continue to develop their listening, speaking, reading and writing skills in Spanish.

GenEd: C3A,C3B

### **SPAN 202 INTERMEDIATE SPANISH II (4)**

Four hours lecture per week

Prerequisite: SPAN 201 or equivalent

Through the study of the culture and civilization of the Hispanic world, students further develop their listening, speaking, reading and writing skills in Spanish.

GenEd: C3A,C3B

### **SPAN 211 SPANISH FOR HERITAGE SPEAKERS I (4)**

Four hours lecture per week

Prerequisite: Consent of the instructor

This course is designed for students accustomed to hearing Spanish and English at home who are able to understand much of what they hear as well as speak some Spanish, and who are interested in further developing their language skills, particularly in speaking, reading and writing. Course content will include the culture and civilization of the Hispanic world, with emphasis on the U.S.

GenEd: C3A,C3B

### **SPAN 212 SPANISH FOR HERITAGE SPEAKERS II (4)**

Four hours lecture per week

Prerequisite: SPAN 211 or equivalent or consent of the instructor

This course is designed for students accustomed to hearing Spanish and English at home who are able to understand much of what they hear as well as speak some Spanish, and who are interested in further developing their language skills, particularly in speaking, reading and writing. Course content will include the culture and civilization of the Hispanic world, with emphasis on the U.S.

GenEd: C3A,C3B

### **SPAN 301 ADVANCED SPANISH: PART ONE (3)**

Three hours lecture per week

Prerequisite: SPAN 202 or SPAN 212 or consent of the instructor

Enhancement of communicative abilities in listening, speaking, reading and writing through the examination of topics of interest in the Hispanic world. Several of the topics include: cultural perspectives, ancestry and roots, and work and leisure. Student projects to include presentations, service activities and cultural portfolio.

### **SPAN 302 ADVANCED SPANISH: PART TWO (3)**

Three hours lecture per week

Prerequisite: SPAN 202 OR SPAN 212 or consent of the instructor

Further enhancement of communicative abilities in listening, speaking, reading and writing through the examination of topics of interest in the Hispanic world. Several of the topics include: tradition and change, cultural and linguistic contrasts, and human rights and equality. Student projects to include presentations, service activities and cultural portfolio.

### **SPAN 304 SPANISH FOR CAREERS AND PROFESSIONS (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or SPAN 302 (may be taken concurrently) or consent of the instructor

Interactive study of Spanish as applied to the fields of business, education, health professions and social services. Students will learn the basic vocabulary and expressions pertaining to these fields.



**SPAN 310 INTRODUCTION TO PROSE, POETRY AND DRAMA (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or SPAN 302 or consent of the instructor

This is an introductory literature course designed to develop students' ability to read, discuss and write about literary texts. Selections of poetry, prose, and dramatic works from among Spanish, Latin American and U.S. Latino authors will be explored.

**SPAN 311 BILINGUAL LITERARY STUDIES/ ESTUDIOS LITERARIOS BILINGUES (3)**

Three hours lecture per week

Prerequisite: ENGL 103 or ENGL 105 and SPAN 202 or 212 or consent of the instructor

This course explores the literatures of the Americas written in two languages: English and Spanish. Course texts will include works written by bilingual U.S. authors and Latin American authors writing primarily in Spanish; genres may include novels, with a special focus on Magical Realism/el realismo magico, short stories/ cuentos, and poetry. Readings will be in the original language; class discussions will be bilingual.

Same as ENGL 311

**SPAN 315 CONTRASTIVE FEATURES OF SPANISH AND ENGLISH (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or SPAN 302 or consent of the instructor

Exploration of the linguistic similarities and differences of Spanish and English regarding their sound systems as well as their grammatical systems. Through this exploration of phonology, morphology and syntax, students will gain an understanding of the features of each language implicated in Second Language Acquisition.

**SPAN 320 INTRODUCTION TO SPANISH TRANSLATION (3)**

Three hours lecture per week

Prerequisite: SPAN 202 or SPAN 212 or consent of the instructor

This course is an introduction to the history, theory, and practice of translation from Spanish to English and from English to Spanish. In the process of translating texts, students will learn strategies, techniques and principles of translation and, at the same time, increase their proficiency in Spanish.

**SPAN 410 CIVILIZATIONS & CULTURES OF SPAIN (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or SPAN 302 or consent of the instructor

Explores the history of Spain, from the formation of Hispania to the present. Major geographical, political, religious and literary aspects of Spain will be discussed. Oral presentations will be required.

**SPAN 411 CIVILIZATIONS AND CULTURES OF LATIN AMERICA (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or 302 or consent of the instructor

Explores the history of the Spanish-speaking regions of Latin America, from pre-Columbian civilizations to the Spanish conquest to the present. Major geographical, political, religious and literary aspects of Latin American culture will be discussed. Oral presentations will be required.

**SPAN 415 SPANISH LANGUAGE VARIATION & DIVERSITY (3)**

Three hours lecture per week

Prerequisite: SPAN 315 or consent of the instructor

This course provides a linguistic exploration of Spanish language variation. It explores different types of language variations, including historical change (language evolution from Latin to Spanish), geographical variation (different dialects in the Spanish-speaking world), and sociolinguistic variation (based on economic class, age, gender, etc.). It also analyzes fundamental issues in bilingualism (such as Spanish-English codeswitching) and other sociopolitical topics relating to the use of Spanish in the United States.

**SPAN 420 SPECIALIZED SPANISH TRANSLATION (3)**

Three hours lecture per week

Prerequisite: SPAN 320 or consent of instructor

Practice and critique of translations of a range of specialized material (legal, literary, business, social science, technical, and audiovisual) both from Spanish to English and from English to Spanish. Review of translation theory, methods, techniques, and problems.

**SPAN 421 SPANISH FOR EDUCATORS I (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or SPAN 302 or consent of the instructor

Prepares students to function effectively in Spanish within a school setting. Emphasis is placed on developing the Spanish fluency and vocabulary necessary for classroom and school-related community situations. Course content emphasizes the K-6 school setting. The topics include: General school-related vocabulary, parent-teacher conferences, writing letters, language arts and reading vocabulary, examples of Spanish-language children's literature, social studies and mathematics. This course does not count toward the Spanish Major.

**SPAN 422 SPANISH FOR EDUCATORS II (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or SPAN 302 or consent of the instructor

Prepares students to function effectively in Spanish within a school setting. Emphasis is placed on developing the Spanish fluency and vocabulary necessary for classroom and school-related community situations. Course content emphasizes the K-6 school setting. The topics include: 1) General science vocabulary (parts

of the body, illnesses, foods and nutrition, animals, plants, minerals, weather, solar system), 2) General art vocabulary and brief introduction to several Hispanic artists and their work, 3) General music vocabulary and brief introduction to several Spanish-language songs, including children's songs. This Course does not count toward the Spanish major.

### **SPAN 460 MASTERPIECES OF SPANISH LITERATURE (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or SPAN 302 or consent of the instructor

This is an advanced literature course designed to develop reading, writing, and literary analysis. The content of the course will focus on selections of poetry, prose, and theater from literary masterpieces of Spanish Literature. Lectures, discussions, and analysis of the texts will be the center of class activities. Student projects will include both individual as well as group oral presentations and reports.

### **SPAN 461 MASTERPIECES OF LATIN AMERICAN LITERATURE (3)**

Three hours lecture per week

Prerequisite: SPAN 301 or SPAN 302 or consent of the instructor

This is an advanced literature course that explores major Latin American Literary works. It will enhance student's knowledge of Latin American Literature, history and culture. It will develop critical thinking and improve student reading and writings skills while it broadens their Spanish language vocabulary. Class will include lectures, discussions and both oral and written reports.

### **SPAN 490 SPECIAL TOPICS IN SPANISH (3)**

Three hours lecture per week

Prerequisite: Consent of the instructor

Selected topics on Spanish language, linguistics, Hispanic cultures, and literatures. Repeatable for up to 9 units.

### **SPAN 499 CAPSTONE IN SPANISH (2)**

Two hours seminar per week

Prerequisite: Senior standing as a Spanish major or consent of the instructor

In this course, students design and complete a project that integrates prior course work with one or more of the objectives of the University mission statement. The project may involve an interdisciplinary activity, a service learning experience, and reflect a multicultural or international perspective.

## **SPECIAL EDUCATION**

### **SPED 345 INDIVIDUALS WITH DISABILITIES IN SOCIETY (3)**

Three hours lecture per week

Major types of disabilities and giftedness, including definitions, causes, characteristics, and educational implications. Topics include: disability perspectives and social, legal, and educational considerations of disability issues.

Same as PSY 345

GenEd: D,E,Interdisciplinary

### **SPED 490 SPECIAL TOPICS IN SPECIAL EDUCATION (1-3)**

Prerequisite: Upper division standing and consent of the instructor

In-depth analysis of current topics in special education. Topics vary each semester. Repeatable by topic.

Student Option: Graded or CR/NCR

### **SPED 494 INDEPENDENT RESEARCH IN SPECIAL EDUCATION (1-3)**

Prerequisite: Upper division standing and consent of the instructor

Students design and implement an independent research project in special education in conjunction with a faculty member. Repeatable.

Student Option: Graded or CR/NCR

### **SPED 497 DIRECTED STUDIES IN SPECIAL EDUCATION (1-3)**

Prerequisite: Upper Division standing and consent of the instructor

An intensive directed study of some aspect of field of special education under the direction of a faculty member. Repeatable.

Student Option: Graded or CR/NCR

### **SPED 499 SENIOR CAPSTONE PROJECT/SEMINAR IN SPECIAL EDUCATION (1-3)**

Prerequisite: Upper division standing and consent of the instructor

Students work on research or community-based projects in the field of special education. A written report of the project is required.

Student Option: Graded or CR/NCR

### **SPED 541 FOUNDATIONS OF SPECIAL EDUCATION (2)**

Two hours lecture/discussion per week

Prerequisite: Admission to Education Specialist Credential Program and SPED 345, ENGL 475, EDUC 510, EDUC 512

Ethical standards, professional practices, laws, regulations and policies related to the provision of services to individuals with disabilities and their families. Models, theories and practices that form the basis for special education practice. History of special education and contributions of culturally diverse groups. Development of professional perspective that reflects status of special education services in society.

**SPED 542 MANAGING LEARNING ENVIRONMENTS (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to Education Specialist: Mild/Moderate Disabilities Credential Program

Corequisites SPED 562 or SPED 570 or SPED 580

Functional assessment of behavior, behavior management strategies, communication styles and their impact on learning; laws, regulations, and strategies for promoting positive and self-regulatory behavior in students. Designing and implementing positive behavioral support plans.

**SPED 543 EDUCATING DIVERSE LEARNERS WITH MILD TO MODERATE DISABILITIES (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to Education Specialist: Mild/Moderate Disabilities Credential Program

Corequisite: SPED 580

Characteristics and needs of individuals with mild to moderate disabilities. Use of environmental, curricula and instructional strategies to meet the needs of students with mild to moderate disabilities across a variety of environments. Designing and implementing individual instructional plans that reflect appropriate cultural and linguistic sensitivity.

**SPED 544 INCLUSIONARY TEACHING METHODS (2)**

Two hours lecture per week

Prerequisite: Admission to Education Specialist: Mild/Moderate Disabilities Credential Program

Corequisite: SPED 570

This course prepares students to teach collaboratively with general education teachers. Students explore the advantages and disadvantages of inclusion service delivery models used in schools for students with disabilities. Students learn how to modify curriculum, use teaching techniques and design and implement individual instructional plans for students with disabilities in general education settings. They learn models and strategies for collaborating and consulting with general education teachers.

**SPED 545 ASSESSMENT OF STUDENTS WITH DISABILITIES (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to Education Specialist Credential Program and SPED 541, SPED 542, SPED 543, SPED 570

Basic principles, processes and strategies for assessment. Use of effective assessment techniques, tools and approaches for individuals who are culturally, linguistically, ethnically, socio-economically and ability diverse in general education and special education settings to make educational decisions.

**SPED 546 CONSULTATION AND COMMUNICATION WITH FAMILIES AND PROFESSIONALS (3)**

Three hours of lecture/discussion per week

Prerequisite: Admission to Education Specialist: Mild/Moderate Disabilities Credential Program

Corequisites: SPED 562 or SPED 570

Strategies for effectively collaborating, communicating and working in partnership with individuals with disabilities and their families, other caregivers, school administrators, general and special education teachers, specialists and paraprofessionals and community agency and related service personnel. Planning for transition across the life span for learners with special needs.

**SPED 562 FIELD EXPERIENCE (2)**

A minimum of one school day in local public schools per week

Prerequisite: Admission to the Education Specialist: Mild/Moderate Disabilities Credential Program

Corequisite: Any of the following: SPED 542, SPED 545, SPED 546

Participatory observation in school settings under the supervision of a university supervisor and/or classroom teacher for Education Specialist Candidates and Approved Interns.

Graded Credit/No Credit

**SPED 570 STUDENT TEACHING IN SPECIAL EDUCATION I (3)**

A minimum of one school day per week for the first eight weeks and three full school days per week for the second eight weeks.

Prerequisite: Admission to Education Specialist Level I Program

Corequisite: SPED 544

Individuals holding valid teaching credentials will complete field experience with a resource teacher in a grade level different from their current teaching credential.

The first field experience providing teaching opportunities with the broad array of age and grade placements appropriate for special education teachers. Experience teaching individuals from a variety of cultural and linguistic groups.

Graded Credit/No Credit

**SPED 571 STUDENT TEACHING SEMINAR (1)**

One hour seminar per week

Prerequisites: Students must be enrolled in the Education Specialist Level 1 Credential Program.

Corequisite: SPED 570

Guided discussion of experiences during student teaching, and preparation for securing a teaching position.

Graded Credit/No Credit

**SPED 580 STUDENT TEACHING IN SPECIAL EDUCATION II (8)**

A minimum of two days per week for first 8 weeks of the semester and five days per week for second 8 weeks.

Prerequisite: Admission to Education Specialist Specialist Level I Credential Program

Corequisite: SPED 544

Opportunity to gradually assume the responsibilities of a special education teacher in a public school including teaching, assessing students, IEP development, collaborating with parents, teachers and special services personnel.

Graded Credit/No Credit

**SPED 581 STUDENT TEACHING SEMINAR (1)**

Two hours seminar bi-weekly

Co-requisite: SPED 580

Guided discussion of experience during student teaching, reflective feedback on student teaching experiences, and preparation for securing a teaching position.

Graded Credit/No Credit

**SPED 585 INTERN FIELD SUPPORT & SEMINAR (3)**

One hour seminar and four hours activity per week

Prerequisites: Students must be enrolled in the Education Specialist Level I Credential Program and be employed as a Special Education Intern at a local school

Special education interns will participate in the Intern Field Support Seminar each semester they are enrolled in the credential program. Students will receive support at their school site and attend a seminar. Seminar will focus on guided discussion of experience during teaching, reflective feedback on teaching experiences and problem solving.

Graded Credit/No Credit

**SPED 640 INDUCTION PLANNING & SUPPORT (1)**

One hour seminar per week

Prerequisite: Admission to Level II Education Specialist credential program

Corequisite: Working as a special education teacher

Development of a Level II Professional Induction Plan in collaboration with a University Supervisor and a District Support Provider. The plan will include university and non-university components. The plan will identify the candidate's professional area of specialization and area of need. The induction plan will build upon the theoretical and practical knowledge gained in the Education Specialist Level I program and guide the candidate in developing a specific emphasis within the field of special education.

Graded Credit/No Credit

**SPED 641 ADVANCED PERSPECTIVES IN SPECIAL EDUCATION (3)**

Three hours lecture per week

Prerequisite: Admission to Level II Education Specialist credential program

Corequisite: Working as a special education teacher

This course prepares teachers and administrators to remain abreast of effective advanced practices in the field of special education. Students will demonstrate knowledge and abilities to interpret apply and disseminate current and emerging research, theory, legislation, policy and practice related to special education.

**SPED 642 ADVANCED BEHAVIOR AND ENVIRONMENTAL SUPPORT (3)**

Three hours lecture per week

Prerequisite: Admission to Level II Education Specialist credential program

Corequisite: Working as a special education teacher

Examination and analysis of theories, research, and best practices of behavior and environmental support for students with disabilities within their own school settings.

**SPED 643 ADVANCED ASSESSMENT AND INSTRUCTIONAL PRACTICES FOR DIVERSE LEARNERS (3)**

Three hours lecture per week

Prerequisite: Admission to Level II Education Specialist credential program

Corequisite: Working as a special education teacher

This field based seminar course builds upon students knowledge and skills of assessment and instructional methodology learned in their level I Education Specialist credential. Students have the opportunity to discuss and review current practices in special education on the local, state and national level. Students review current trends in multicultural and bilingual special education, augmentative communication, data-based decision making, early intervention, outcomes assessments, technology and other areas that effect special education practices for students with mild/moderate disabilities.

**SPED 646 ADVANCED COLLABORATIVE PARTNERSHIPS AND EFFECTIVE COMMUNICATION IN SCHOOL SETTINGS (3)**

Three hours lecture/discussion per week

Prerequisite: Admission to Level II Education Specialist credential program

Corequisite: Working as a special education teacher

Examination and analysis of theories, research, and best practices for collaborative partnerships and effective communication within their own school settings and, professional and family environments.



**SPED 647 TRANSITION & CAREER EDUCATION (1)**

One hour seminar per week

Prerequisite: Admission to Level II Education Specialist credential program

Corequisite: Working as a special education teacher

Students in this seminar will gain an understanding of transition planning and career education for students with disabilities. Students will demonstrate the ability to write and implement successful transition plans for students transitioning out of public education. Students will learn about career services for people with disabilities available from educational and community agencies. Graded Credit/No Credit

**SPED 649 INDUCTION EVALUATION (1)**

One hour seminar per week

Prerequisite: SPED 640, 641, 642, 643, 646, and 647

Corequisite: Working as a special education teacher

This field based seminar course will evaluate and finalize candidates' Professional Level II Induction Plan and Professional Development Portfolio. The candidate will work with his/her University Supervisor and District Support Provider to demonstrate and/or document proficiency in the California State Standards for Education Specialists. The candidate will provide evidence for professional development within an area of need and area of specialization as determined in SPED 641.

Graded Credit/No Credit

**SPED 655 HISTORICAL AND CONTEMPORARY PORTRAITS OF DISABILITIES AND SPECIAL EDUCATION (3)**

Three hours lecture per week

An examination of the history of disabilities with an emphasis on the social reform movements and prominent philosophies that have shaped contemporary policies for individuals with disabilities in the United States. Focus on the life histories of individuals with disabilities and their families; family support and disability advocacy movements. Examination of the trends in public education and civil rights that have impacted individuals with disabilities in historical and contemporary contexts.

**SPED 690 ADVANCED TOPICS: SPECIAL EDUCATION (3)**

Three hours seminar per week

Prerequisite: Admission to MA in Education Program

Provides a critical examination of current issues surrounding the field of special education, examples include, instructional methodologies, latest research, legislation and policy, case law, high stakes exams, over-representation of minorities in special education, and teacher shortages.

**THEATRE**

See Performance Arts - Theatre

**UNIVERSITY****UNIV 100 UNIVERSITY LIFE & COLLEGE SUCCESS (1)**

One hour seminar per week

This course introduces first-year students to university life, the structure and policies of the University and development of strategies and skills to help insure success in college. Through self-evaluation, lecture, activities and class discussion, students will develop an individualized plan for personal, social, academic and professional success. Students will be introduced to a variety of topics which include the transition to academic and campus life, introduction to campus academic and student resources, major and career exploration, academic expectations and resources and skills necessary for success. UNIV 100 is appropriate for freshmen; UNIV 101 is appropriate for transfer students. Student Option: Graded or CR/NCR

**UNIV 101 UNIVERSITY LIFE AND COLLEGE SUCCESS FOR TRANSFER STUDENTS (1)**

One hour seminar per week

This course introduces transfer students to university life, the structure and policies of the University and development of strategies and skills to help insure success in college. Through self-evaluation, lecture, activities and class discussion, students will develop an individualized plan for personal, social, academic and professional success. Students will be introduced to a variety of topics which include the transition to academic and campus life, introduction to campus academic and student resources, major and career exploration, academic expectations and resources and skills necessary for success. UNIV 100 is appropriate for freshmen; UNIV 101 is appropriate for transfer students. Student Option: Graded or CR/NCR

**UNIV 110 CRITICAL THINKING IN AN INTERDISCIPLINARY CONTEXT (3)**

Two hours lecture and one hour seminar per week

This course explores the language and logic of academic disciplines and teaches critical thinking skills. The workings of logic, including inductive and deductive reasoning, form a major part of the course content. Professors from each discipline will participate in lectures and discussions to provide exposure to methods and ways of knowing across the curriculum. Through lecture and class discussion, students learn to form various types of argument, apply rhetorical methodologies, and comprehend the relationship of language to logic. Through written assignments, oral presentations, and group work, students learn to express their ideas and accept constructive criticism from peers. The class exercises and lectures will also provide students with means to acquire or improve their academic and professional skills.

GenEd: A3

**UNIV 392 INTERNATIONAL EXPERIENCE (1-3)**

Provides an opportunity for students to earn credit for travel and study in a country outside the US, where the student is immersed in a foreign culture. With faculty advisor approval, students may participate in a university-sponsored trip abroad or a personal trip abroad. Requires an approved plan of study by the faculty advisor prior to the experience.

GenEd: C3B

**UNIV 493 SERVICE LEARNING AT THE ZOO (1-3)**

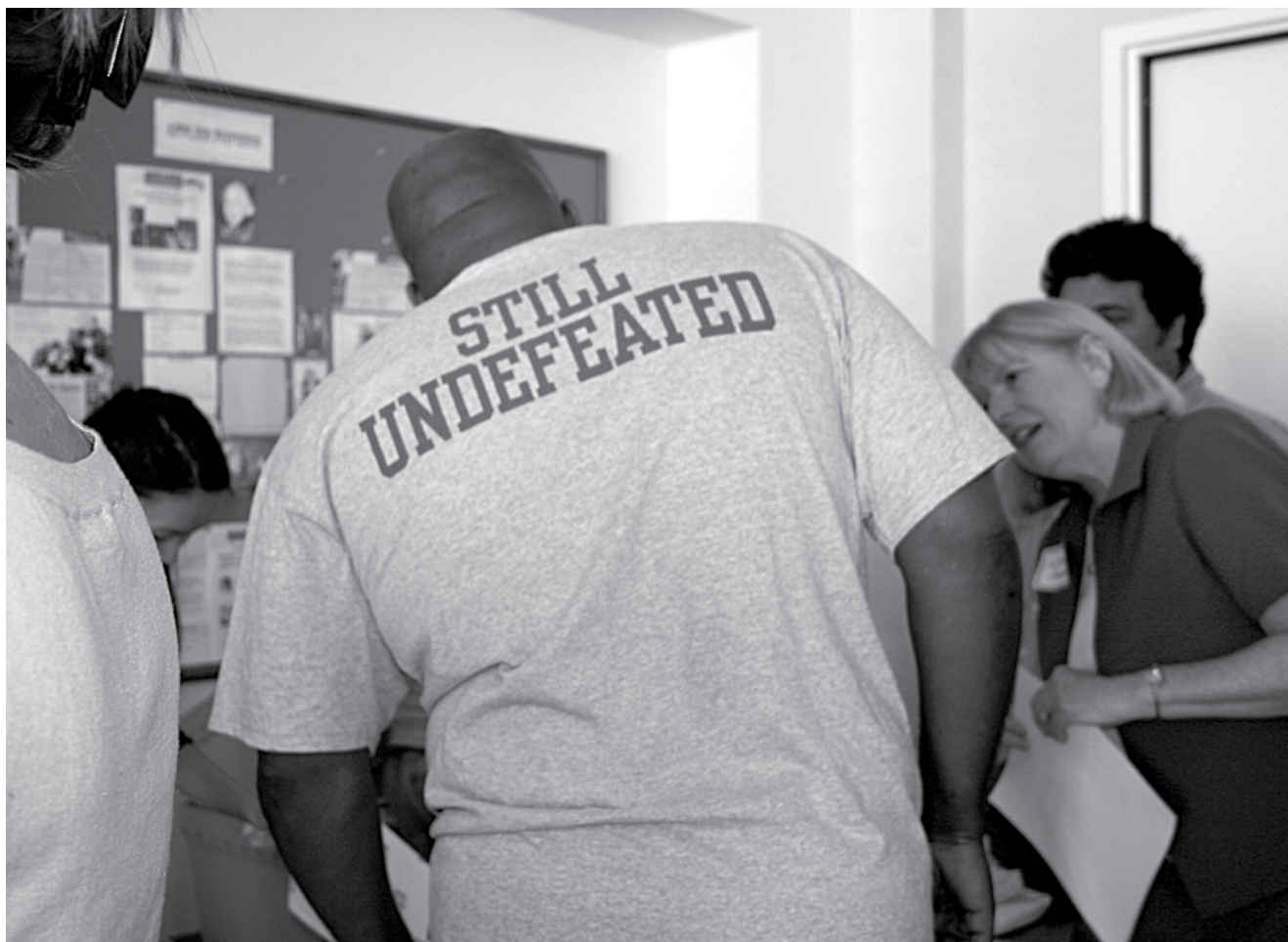
One to three hours activity per week

Prerequisites: BIOL/BUS/ECON/EDUC 342 and Consent of Instructor

Working with a local zoo, individuals or teams of students will engage in service learning projects. Students will apply skills and competencies acquired in their academic programs to issues and challenges facing modern zoos.

Student Option: Graded or CR/NCR

Same as BIOL 493, BUS 493, ECON 493, EDUC 493



CSU





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CSU

# INDEX

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS  
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