

# UNIVERSITY OF CALIFORNIA, SANTA CRUZ

OFFICE OF THE REGISTRAR



## Fall 2008 Schedule of Classes

### New Enrollment Appointment Schedule

Enrollment appointments are now scheduled based on a two-pass system. Please see pages 13 and 14 for more information.

### Fall Registration Fees

Bills for fall quarter charges will be viewable on the MyUCSC portal on August 29. A copy will be mailed to the Statement of Account mailing address (see page 20). Registration fees are due by 4 p.m. on September 17. If payment is received by the UCSC cashier after the deadline, a \$50 late fee will be assessed.

### Check for Enrollment Holds

To prevent delays in enrolling, check the portal for enrollment holds before priority enrollment begins and take action to clear your holds before your appointment time.

Online *Schedule of Classes*: [reg.ucsc.edu/soc/](http://reg.ucsc.edu/soc/)  
MyUCSC portal: [my.ucsc.edu](http://my.ucsc.edu)

# UNIVERSITY OF CALIFORNIA, SANTA CRUZ

## Schedule of Classes



1156 High Street  
Santa Cruz, CA 95064

Fall 2008

Web site: [reg.ucsc.edu/soc](http://reg.ucsc.edu/soc)

The detailed entry for each course offering appearing in this schedule is based on information submitted by the sponsoring agency prior to the beginning of the quarter. Updated information is available on the web in the online *Schedule of Classes* at [reg.ucsc.edu/soc](http://reg.ucsc.edu/soc). Courses listed in this *Schedule of Classes* are subject to change through normal academic channels. New proposals and changes are initiated by the appropriate course sponsoring agency and approved through the appropriate dean and the Committee on Educational Policy or the Graduate Council. Scheduling changes that occur after publication of the schedule will appear correctly in the online *Schedule of Classes*.

### Keep Records!

In order to fulfill your responsibility for planning your education, you should keep an up-to-date academic portfolio containing the following kinds of information:

- transcripts from all schools attended;
- test results from entrance exams, language exams, placement exams, and advanced placement;
- copies of communications to and from the university;
- contact information for your advisers and faculty members;
- statements of account showing registration, housing, and other charges and payments.

You are responsible for responding to all communications sent to you by the university.

Check the MyUCSC portal and your UCSC e-mail account often.

Make use of the *UCSC General Catalog*, *Schedule of Classes*, and *The Navigator* undergraduate handbook, found online at [reg.ucsc.edu](http://reg.ucsc.edu), or the *Graduate Student Handbook*, at [graddiv.ucsc.edu/regulations/handbook.php](http://graddiv.ucsc.edu/regulations/handbook.php).

## THIS SCHEDULE IS YOUR GUIDE

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### 1 Critical Dates and Deadlines

**Academic and Administrative Calendar:** pages 6–7

### 2 Academic Advising

**Undergraduate students:** meet with your college academic preceptor, department faculty, and staff advisers as needed.

### 3 Classes

**Schedule Planners:** page 5, 153  
**Final exam schedule:** page 8  
**How to read the class listings:** page 84  
**Class listings begin:** page 85

### 4 Placement Exams

**Placement exam schedule:** page 10

### 5 Enrollment

**Appointment schedule:** pages 13, 14  
**Access to enrollment:** page 15  
**Registration and Enrollment Timeline:** page 16

### 6 Registration Fee Payment

**Bills mailed, viewable on the MyUCSC portal:** August 29, 2008  
**Payment due:** September 17, 2008  
**Additional registration payment information:** page 20, or online at <http://reg.ucsc.edu/faqs/fees.htm>

## ONLINE RESOURCES

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A–Z Index  
[www.ucsc.edu](http://www.ucsc.edu)

Academic & Administrative Calendar  
[reg.ucsc.edu/calendar](http://reg.ucsc.edu/calendar)

Advance Course Information  
[reg.ucsc.edu/soc/aci](http://reg.ucsc.edu/soc/aci)

Bay Tree Bookstore  
[slugstore.ucsc.edu](http://slugstore.ucsc.edu)

Campus Cashier  
[sbs.ucsc.edu](http://sbs.ucsc.edu)

Course Fees  
[reg.ucsc.edu/coursefees.html](http://reg.ucsc.edu/coursefees.html)

Courses Online  
[www2.ucsc.edu/courses/](http://www2.ucsc.edu/courses/)

E-mail Accounts  
[its.ucsc.edu/services/help\\_desk](http://its.ucsc.edu/services/help_desk)

ITS Help Desk  
[itshelp.ucsc.edu](http://itshelp.ucsc.edu)  
Navigator  
[reg.ucsc.edu/Navigator](http://reg.ucsc.edu/Navigator)

**Office of the Registrar**  
[reg.ucsc.edu](http://reg.ucsc.edu)

Schedule of Classes  
[reg.ucsc.edu/soc](http://reg.ucsc.edu/soc)

Student Business Services  
[sbs.ucsc.edu](http://sbs.ucsc.edu)  
Transfer Course Agreements  
[www.assist.org](http://www.assist.org)  
UCSC General Catalog  
[reg.ucsc.edu/catalog](http://reg.ucsc.edu/catalog)

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# SCHEDULE PLANNER

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
8:00							
8:30							
9:00	class # _____		class # _____		class # _____		
9:30		class # _____		class # _____			
10:00							
10:30	class # _____		class # _____		class # _____		
11:00							
11:30		class # _____		class # _____			
12:00	class # _____		class # _____		class # _____		
12:30							
1:00							
1:30	class # _____						
2:00							
2:30							
3:00	class # _____		class # _____		class # _____		
3:30		class # _____		class # _____			
4:00							
4:30	class # _____		class # _____		class # _____		
5:00							
5:30		class # _____		class # _____			
6:00							
6:30	class # _____		class # _____		class # _____		
7:00							
7:30		class # _____		class # _____			
8:00							
8:30	class # _____		class # _____		class # _____		
9:00							
9:30							
10:00							
10:30	class # _____						

MWF 8:00–9:10 A.M.  
 MWF 9:30–10:40 A.M.  
 MWF 11:00 A.M.–12:10 P.M.  
 MWF 12:30–1:40 P.M.  
 MWF 2:00–3:10 P.M.  
 MWF 3:30–4:40 P.M.  
 MW 5:00–6:45 P.M.  
 MW 7:00–8:45 P.M.

(20-minute breaks between classes)

TTH 8:00–9:45 A.M.  
 TTH 10:00–11:45 A.M.  
 TTH 12:00–1:45 P.M.  
 TTH 2:00–3:45 P.M.  
 TTH 4:00–5:45 P.M.  
 TTH 6:00–7:45 P.M.  
 TTH 8:00–9:45 P.M.

(15-minute breaks between classes)

Saturday meeting times vary.

# ACADEMIC AND ADMINISTRATIVE CALENDAR 2008–09

Please read and follow registration and enrollment instructions and deadlines contained in this schedule. It is the student's responsibility to pay fees, enroll in classes, confirm enrollments and grading options, and file petitions by the stated deadlines.

Key Dates	Fall '08	Winter '09	Spring '09		Fall '08	Winter '09	Spring '09
<b>QUARTER BEGINS</b>	Sept 20 Sat	Jan 5 Mon	Mar 30 Mon				
<b>ORIENTATION</b> See orientation schedule for details.							
<b>INSTRUCTION BEGINS</b>	Sept 25 Thur	Jan 6 Tues	Mar 30 Mon				
<b>INSTRUCTION ENDS</b>	Dec 5 Fri	Mar 16 Mon	June 5 Fri				
<b>FINAL EXAMINATIONS</b>	Dec 8–11 Mon–Thur	Mar 17–20 Tues–Fri	June 8–11 Mon–Thur				
<b>QUARTER ENDS</b>	Dec 11 Thur	Mar 20 Fri	June 11 Thur				
<b>COMMENCEMENTS</b>			June 12–14 Fri–Sun				
<b>HOLIDAYS OBSERVED</b>							
Sept. 1–Labor Day		Jan. 19–Martin Luther King, Jr. Day					
Nov. 11–Veterans Day		Feb. 16–Presidents' Day					
Nov. 27–28–Thanksgiving Holidays		March 27–César Chávez Day					
Dec. 24–25, Dec. 31–Winter Holidays		May 25–Memorial Day					
Jan. 1–New Year's Day		July 3–Independence Day					
<b>CAMPUS CLOSURE DATES</b> The campus is closed from Wednesday, December 24 through Thursday, January 1.							

## Advising and Advance Enrollment

Fall '08 Winter '09 Spring '09

Continuing and Readmitted Students (includes visitors)			
<b>ADVISING WEEK</b>	May 12–16 Mon–Fri	Nov 5–12 Wed–Wed	Feb 18–24 Wed–Tues
Continuing and readmitted undergraduates.			
<b>PRIORITY ENROLLMENT BEGINS</b>	May 19 Mon	Nov 13 Thur	Feb 25 Wed
Continuing and readmitted graduate and undergraduate students, by appointment.			
Open enrollment follows priority enrollment. For more information, see the quarterly Schedule of Classes.			
<b>OPEN ENROLLMENT ENDS</b>	Sept 24 Wed	Jan 5 Mon	Mar 29 Sun
Continuing and readmitted students.			

Fall '08 Winter '09

New Students		
<b>PRIORITY ENROLLMENT</b>		
New graduate students.	June 19 Fri	TBA
Undergraduates: priority groups and those who attend summer orientation, by appointment	July 9–24 Wed–Thur	TBA
Undergraduates new to UCSC who do not attend summer orientation	July 25 Fri	TBA
Open enrollment follows priority enrollment. For more information, see the quarterly Schedule of Classes.		
<b>OPEN ENROLLMENT ENDS</b>	Sept 24 Wed	Jan. 5 Mon
New students		

<b>BILLING STATEMENTS AVAILABLE ON PORTAL</b> including registration and housing fees.	Aug 29 Fri	Nov 25 Tues	Feb 27 Fri
<b>HOUSING FEES DUE</b> Cashier's Office.	Sept 17 Wed	Dec 19 Fri	Mar 19 Thur
<b>UNDERGRADUATE REGISTRATION FEES DUE</b> Late registration fee of \$50 assessed after this date. Cashier's Office.	Sept 17 Wed	Dec 19 Fri	Mar 19 Thur
<b>STUDENT HEALTH INSURANCE</b> Deadline to apply for waiver. Cowell Student Health Center.	Sept 17 Wed	Dec 19 Fri	Mar 19 Thur
<b>MINIMUM CREDIT LIMIT ENFORCED</b> Twelve credits for undergraduates and five credits for graduates.	Sept 17 Wed	Dec 23 Tues	Mar 25 Wed
<b>ADD/DROP/SWAP CLASSES BEGINS</b>	Sept 25 Thur	Jan 6 Tues	Mar 30 Mon
<b>UNDERGRADUATE ENROLLMENT DEADLINE</b> Students must be enrolled in one class by this date, or \$50 late enrollment fee assessed.	Sept 29 Mon	Jan 8 Thur	Apr 1 Wed
<b>GRADUATE STUDENT ENROLLMENT AND FEE PAYMENT DEADLINE</b> \$50 late enrollment fee after this date. Cashier's Office.	Oct 3 Fri	Jan 9 Fri	Apr 3 Fri
<b>GRADUATE STUDENT PART-TIME STATUS</b> Deadline to apply for a reduced class load and fees. Department.	Oct 3 Fri	Jan 9 Fri	Apr 3 Fri
<b>CLASS PERMISSION NUMBERS REQUIRED</b>	Oct 4 Sat	Jan 15 Thur	Apr 8 Wed
<b>ADD/DROP/SWAP CLASSES ENDS</b> Deadline to process enrollment transactions.	Oct 15 Wed	Jan 27 Tues	Apr 17 Fri
<b>GRADE OPTION</b> Deadline to change grade option.	Oct 15 Wed	Jan 27 Tues	Apr 17 Fri
<b>UNDERGRADUATE PART-TIME PROGRAM</b> Deadline to apply for a reduced class load and fees. Office of the Registrar.	Oct 15 Wed	Jan 27 Tues	Apr 17 Fri
<b>ADD BY PETITION BEGINS</b> First day to add a class by petition (\$10 fee). Office of the Registrar.	Oct 16 Thur	Jan 28 Wed	Apr 20 Mon
<b>UNDERGRADUATE WITHDRAW FROM A CLASS BEGINS</b> Students petition for a W (Withdraw) notation. College.	Oct 16 Thur	Jan 28 Wed	Apr 20 Mon
<b>DECLARATION/CHANGE OF MAJOR/MINOR</b> Deadline to file petition. Contact your department for major/minor declaration information.	Oct 24 Fri	Feb 6 Fri	May 1 Fri
<b>CHANGE OF COLLEGE</b> Deadline to file petition to be effective the following quarter. College.	Dec 1 Mon	Feb 27 Fri	May 7 Thur

# ACADEMIC AND ADMINISTRATIVE CALENDAR 2008–09

Please read and follow registration and enrollment instructions and deadlines contained in this schedule. It is the student's responsibility to pay fees, enroll in classes, confirm enrollments and grading options, and file petitions by the stated deadlines.

Fall '08      Winter '09      Spring '09      Summer '09

**UNDERGRADUATE WITHDRAW FROM A CLASS ENDS** Nov 4 Tues      Feb 18 Wed      May 11 Mon

Deadline to petition for a W (Withdraw) notation, except for emergency reasons. College.

**UNDERGRADUATE CREDIT BY PETITION ENDS** Nov 4 Tues      Feb 18 Wed      May 11 Mon

Deadline to file petition to challenge a class (\$10 fee). Office of the Registrar.

**ADD BY PETITION ENDS** Nov 4 Tues      Feb 18 Wed      May 11 Mon

Deadline to add a class by petition (\$10 fee). Office of the Registrar.

**WITHDRAW FROM THE UNIVERSITY** Nov 4 Tues      Feb 18 Wed      May 11 Mon

Deadline to file to withdraw during the quarter, except for emergency reasons. College/Division of Graduate Studies.

**UNDERGRADUATE REMOVAL OF INCOMPLETE** Dec 11 Thur      Mar 20 Fri      June 11 Thur

Deadline to file petition (\$10 fee) and submit class work for Incomplete grade from preceding quarter. Office of the Registrar.

**GRADUATE STUDENT REMOVAL OF INCOMPLETE** Dec 11 Thur      Mar 20 Thur      June 11

Deadline to file petition (\$10 fee) and submit class work for Incomplete grade within the last three quarters. Office of the Registrar.

**LEAVE OF ABSENCE** Dec 11 Thur      Mar 20 Fri      Aug 31 Mon

Deadline to petition for leave beginning the next quarter. College/Division of Graduate Studies.

**GRADES DUE** Dec 16 Tues      Mar 25 Wed      June 16 Tues

From instructors.

**EVALUATIONS DUE** Jan 13 Tues      Apr 13 Mon      July 2 Thur

From instructors.

**GRADUATE STUDENTS** Oct 2 Thur      Jan 15 Thur      Apr 9 Thur      June 18 Thur

Deadline to announce for certificate, master's, or Ph.D., or pay for filing fee, if applicable.

**UNDERGRADUATES** Sept 20–Oct 24 Sat–Fri      Jan 5–Feb 6 Mon–Fri      March 30–April 29 Mon–Wed      June 22–July 31 Mon–Fri

\*Students who apply after the deadline are billed a \$40 late application fee.

**GRADUATE STUDENTS** Dec 11 Thur      Mar 20 Fri      May 28\* Thur      Aug 28 Fri

Deadline to complete all requirements for degree.

\* Students not participating in June commencement have until June 11 to complete all requirements for degree.

**UNDERGRADUATES** Dec 11 Thur      Mar 20 Fri      June 11 Thur      Aug 28 Fri

Deadline to complete all requirements for degree and for the Office of the Registrar to receive transcripts from other institutions.

## Financial Aid

### FINANCIAL AID APPLICATION FOR UNDERGRADUATES

- File the free Application for Federal Student Aid (FAFSA) by March 2 prior to each fall quarter at <http://www.fafsa.ed.gov/> for enrollment in fall 2008, file by March 2, 2008 for enrollment in fall 2009, file by March 2, 2009

- Complete financial aid file by providing all supporting documentation requested by the Financial Aid Office by June 1 of each year (prior to each fall quarter).

- FAFSA applications received after the March 2 priority deadline will be reviewed after those received on time have been processed. Late applicants will be considered on a funds-available basis.

### FINANCIAL AID APPLICATION FOR GRADUATES

- To apply for federal student loans, file the Free Application for Federal Aid (FAFSA) each year at <http://www.fafsa.ed.gov/>.

- To apply for other types of graduate support, contact your academic department.

## Readmission

### READMISSION APPLICATION Undergraduates

Filing deadline for priority enrollment. Office of Admissions.

<b>Fall '08</b>	<b>Winter '09</b>	<b>Spring '09</b>
Apr 1, 2008	Oct 1, 2008	Jan 1, 2009
Tues	Wed	Thur

### READMISSION APPLICATION FINAL FILING DEADLINE

Undergraduates: Office of Admissions.  
Graduates: Division of Graduate Studies.

July 31, 2008	Oct 31, 2008	Jan 31, 2009
Thur	Fri	Sat

For more information on procedures and deadlines, including links to the UCSC *General Catalog* and *Navigator Undergraduate Handbook*, go to [reg.ucsc.edu](http://reg.ucsc.edu).

Graduate students may also refer to the *Graduate Student Handbook* at [graddiv.ucsc.edu/regulations/handbook.php](http://graddiv.ucsc.edu/regulations/handbook.php).

A printable version of this calendar is available at [reg.ucsc.edu/calendar/calendar.pdf](http://reg.ucsc.edu/calendar/calendar.pdf); For key dates, go to [reg.ucsc.edu/calendar/2008\\_09.htm](http://reg.ucsc.edu/calendar/2008_09.htm)

## Announcing Candidacy for Degree/Apply to Graduate

## Intercampus Visitor/Exchange Programs

**UNDERGRADUATES** Apr 30      Oct 31      Jan 31 (Oct 1, UC Berkeley, UC Merced)

**GRADUATE STUDENTS** Aug 15 (Apr 30, 2008, UC Berkeley, UC Merced)      Nov 15      Feb 15

Deadline. Office of the Registrar.

Deadline to file application. Division of Graduate Studies.

# FINAL EXAMINATION POLICIES AND SCHEDULE

## Final Examinations

Final examinations are given during the exam week period at the time announced in the *Schedule of Classes*, usually in the same room used for class meetings during the quarter. Final examinations are required in all undergraduate courses unless the department or other agency sponsoring the course has obtained permission from the Committee on Educational Policy to evaluate students in another manner. No change in the time or date of a final examination may occur unless the course sponsoring agency has obtained the approval

of the Committee on Educational Policy. When finals are administered, they must be completed at the scheduled exam time and may not require more than the scheduled three-hour time block. If a take-home examination is not assigned until the week designated for final exams, it cannot require more than three hours to complete.

Many students prefer enrolling in courses so as to avoid more than two final examinations on the same day. Instructors may bar students from taking the examination if they arrive late. If a student misses an

examination due to an unavoidable emergency, the instructor may agree to give an Incomplete and schedule a makeup examination provided that the student's work is passing up to that point. Travel plans for vacation are not an emergency, and should not be made without checking the final examination schedule. When a final examination is one of the regular requirements in a course, no one taking the course may be individually exempted from it.

## Closed Week

No examinations or tests other than laboratory exams or individual makeup exams may be given during the last week of instruction.

## Examination Retention

An instructor may release to individual students the original final examinations (or copies). Otherwise, the instructor will retain final examination materials at least until the end of the next regular term. During that time students will be allowed to review their examinations.

## Religious Observance

Given the diversity of religious practice within the campus community, academic and administrative units are encouraged to make reasonable accommodation when the schedule of a required campus event conflicts with an individual's religious creed. It is the official policy of the University of California, Santa Cruz, to accommodate, without penalty, requests for alternate examination times in cases where the scheduled time for the examination violates a student's religious creed.

Requests for accommodation for religious observance must be made directly to the faculty member in charge of the course within the first two weeks of the term or as soon as possible after an examination date is announced. Instructors are expected to make reasonable accommodation for such requests. Students who are unable to reach a satisfactory arrangement with an instructor should consult the head of the unit sponsoring the course or the campus ombudsman.

## Accommodations for Disability

Students with registered disabilities that require examination modifications will be accommodated in compliance with state and federal laws. Reasonable accommodations will be made based on recommendations from the Disability Resource Center.

## Fall 2008 Final Examination Schedule

Class	Start	Exam Date	Exam Times
MWF	8:00 A.M.	Monday, Dec. 8	12:00–3:00 P.M.
MWF	9:30 A.M.	Tuesday, Dec. 9	7:30–10:30 P.M.
MWF	11:00 A.M.	Monday, Dec. 8	4:00–7:00 P.M.
MWF	12:30 P.M.	Wednesday, Dec. 10	8:00–11:00 A.M.
MWF	2:00 P.M.	Thursday, Dec. 11	8:00–11:00 A.M.
MWF	3:30 P.M.	Thursday, Dec. 11	12:00–3:00 P.M.
MW	5:00 P.M.	Tuesday, Dec. 9	4:00–7:00 P.M.
MW	7:00 P.M.	Monday, Dec. 8	7:30–10:30 P.M.
TuTh	8:00 A.M.	Wednesday, Dec. 10	12:00–3:00 P.M.
TuTh	10:00 A.M.	Monday, Dec. 8	8:00–11:00 A.M.
TuTh	12:00 noon	Tuesday, Dec. 9	8:00–11:00 A.M.
TuTh	2:00 P.M.	Thursday, Dec. 11	4:00–7:00 P.M.
TuTh	4:00 P.M.	Tuesday, Dec. 9	12:00–3:00 P.M.
TuTh	6:00 P.M.	Wednesday, Dec. 10	4:00–7:00 P.M.
Non-Standard 1*		Thursday, Dec. 11	7:30–10:30 P.M.
Non-Standard 2**		Wednesday, Dec. 10	7:30–10:30 P.M.

\*Non-Standard 1: classes which have their first meeting M or W or F and do not begin at 8:00 A.M., 9:30 A.M., 11:00 A.M., 12:30 P.M., 2:00 P.M., 3:30 P.M., 5:00 P.M., or 7:00 P.M.

\*\*Non-Standard 2: classes which have their first meeting T or Th and do not begin at 8:00 A.M., 10:00 A.M., 12:00 noon, 2:00 P.M., 4:00 P.M., or 6:00 P.M.

## Fall 2008 Final Exam Schedule by Time Block

Exam Day/ Exam Time	Monday Dec. 8	Tuesday Dec. 9	Wednesday Dec. 10	Thursday Dec. 11
Exam Period 8:00–11:00 A.M.	Tues, Thur 10:00 A.M.	Tues, Thur 12:00 P.M.	Mon, Wed, Fri 12:30 P.M.	Mon, Wed, Fri 2:00 P.M.
Exam Period 12:00–3:00 P.M.	Mon, Wed, Fri 8:00 A.M.	Tues, Thur 4:00 P.M.	Tues, Thur 8:00 A.M.	Mon, Wed, Fri 3:30 P.M.
Exam Period 4:00–7:00 P.M.	Mon, Wed, Fri 11:00 A.M.	Mon, Wed 5:00 P.M.	Tues, Thur 6:00 P.M.	Tues, Thur 2:00 P.M.
Exam Period 7:30–10:30 P.M.	Mon, Wed 7:00 P.M.	Mon, Wed, Fri 9:30 A.M.	Non-Standard 2	Non-Standard 1

## FINAL EXAMINATION POLICIES AND SCHEDULE

### Spring 2008 Final Examination Schedule

Class	Start	Exam Date	Exam Times
MWF	8:00 A.M.	Monday, June 9	8:00–11:00 A.M.
MWF	9:30 A.M.	Tuesday, June 10	4:00–7:00 P.M.
MWF	11:00 A.M.	Thursday, June 12	12:00–3:00 P.M.
MWF	12:30 P.M.	Tuesday, June 10	7:30–10:30 P.M.
MWF	2:00 P.M.	Monday, June 9	12:00–3:00 P.M.
MWF	3:30 P.M.	Wednesday, June 11	8:00–11:00 A.M.
MW	5:00 P.M.	Monday, June 9	7:30–10:30 P.M.
MW	7:00 P.M.	Wednesday, June 11	4:00–7:00 P.M.
TuTh	8:00 A.M.	Tuesday, June 10	8:00–11:00 A.M.
TuTh	10:00 A.M.	Monday, June 9	4:00–7:00 P.M.
TuTh	12:00 noon	Wednesday, June 11	12:00–3:00 P.M.
TuTh	2:00 P.M.	Tuesday, June 10	12:00–3:00 P.M.
TuTh	4:00 P.M.	Thursday, June 12	8:00–11:00 A.M.
TuTh	6:00 P.M.	Thursday, June 12	4:00–7:00 P.M.
Non-Standard 1*		Wednesday, June 11	7:30–10:30 P.M.
Non-Standard 2**		Thursday, June 12	7:30–10:30 P.M.

\*Non-Standard 1: classes which have their first meeting M or W or F and do not begin at 8:00 A.M., 9:30 A.M., 11:00 A.M., 12:30 P.M., 2:00 P.M., 3:30 P.M., 5:00 P.M., or 7:00 P.M.

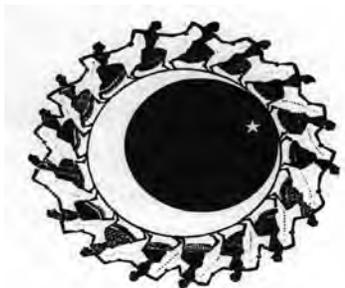
\*\*Non-Standard 2: classes which have their first meeting T or Th and do not begin at 8:00 A.M., 10:00 A.M., 12:00 noon, 2:00 P.M., 4:00 P.M., or 6:00 P.M.

## ADVERTISEMENT

# Women's Self-Defense

"Alternatives to Fear"

**SIX MONDAYS**  
**STARTS MONDAY,**  
**OCTOBER 6**  
**2:45–4:45 P.M.**



Martial Arts Room  
East Field House  
No pre-registration

Learn easy, effective verbal and physical skills!  
**FREE!**

Instructor: Leonie Sherman

Sponsored by Rape Prevention Education

[www2.ucsc.edu/rape-prevention](http://www2.ucsc.edu/rape-prevention) 459-2721

# ORIENTATIONS AND PLACEMENT EXAMS

## Placement Exams

Language placement exams are necessary for students who have not passed the prerequisite UCSC course. Students do not take a placement exam when enrolling at level 1 in a language they have never studied, EXCEPT FOR SPANISH. Students must take the placement exam to gain entry into Spanish level 1. Students who have had language instruction prior to UCSC must take the placement exam if they intend to continue study in that language.

### CHINESE LANGUAGE

See the Chinese instructors during their office hours for placement. Check at 239 Cowell for faculty locations. Approximately 15 minutes to complete interview-style placement exam. Sept. 23, 1:00–2:00 P.M., see faculty in 222 Cowell.

### FRENCH LANGUAGE

See French instructors during office hours for placement. Check at 239 Cowell for faculty office locations. Sept. 23, 1:00–2:00 P.M., 131 Cowell. Orientation begins promptly at 1:00 P.M. (15-minute interview and orientation to French study at UCSC); individual exams begin immediately after the orientation.

### GERMAN LANGUAGE

See the German instructors during their office hours for placement. Check at 239 Cowell for faculty locations. Approximately 15 minutes to complete the interview-style placement exam. Sept. 23, 1:00–2:00 P.M., see faculty, 250 Humanities and Social Science.

### GREEK LANGUAGE

No placement exam is required for Greek 1.

### HEBREW LANGUAGE

Call the Language Program, 459-2054, for information.

### HINDI LANGUAGE

No placement exam is required for Hindi 1.

### ITALIAN LANGUAGE

See the Italian instructors during office hours for placement. Check at 239 Cowell for faculty locations.

### JAPANESE LANGUAGE

See the Japanese instructors during their office hours for placement. Check at 239 Cowell for faculty locations. Sept. 23, 1:00–2:30 P.M., 223 Cowell. Arrive promptly at 1:00 P.M. Written exam and short oral interview.

### LATIN LANGUAGE

No placement exam is required for Latin 1.

### MATHEMATICS

Students *must* arrive at the test site 15 minutes before the scheduled time. Testing begins promptly, and *late admittance is not permitted*. *Students must have valid ID.*

**Orientation Week Exams; no pre-registration required.**

September 22, 1:00–2:30 P.M., 101

J. Baskin Auditorium.

September 22, 3:00–4:30 P.M., 101

J. Baskin Auditorium

September 23, 1:00–2:30 P.M., 101

J. Baskin Auditorium.

September 23, 3:00–4:30 P.M., 101

J. Baskin Auditorium

September 24, 1:00–2:30 P.M., 101

J. Baskin Auditorium.

September 24, 3:00–4:30 P.M., 101

J. Baskin Auditorium

**Friday daytime exams; must preregister at <http://www.math.ucsc.edu/placement/index.html>.**

October 3, 10:50 A.M.–12:20 P.M., 301B

J. Baskin Engineering.

November 7, 12:20–1:50 P.M., 301B

J. Baskin Engineering.

November 14, 10:50 A.M.–12:20 P.M., 301B

J. Baskin Engineering.

### Special Accommodations:

If you have disability-related needs that require accommodations, the Mathematics Department requires one of the following:

1) If you are a UCSC-registered student, you must request that the Disability Resource Center (DRC) send certification to the Mathematics Department. Contact the DRC at 459-2089. The Mathematics Department must receive your request at least **two weeks in advance** of the scheduled examination date.

or

2) If you are not a UCSC-registered student, complete the Mathematics Placement Examination Request for Testing Accommodations (PDF) form (<http://www.math.ucsc.edu/placement/drc.pdf>) and return it to the Mathematics Office with supporting documentation at least **two weeks in advance** of the scheduled examination date.

### MUSIC

Core Curriculum Placement Exam: September 23, 10:00 A.M.–12:30 P.M., Music Center Recital Hall.

### PORTUGUESE LANGUAGE

No placement exam is necessary for entry into Portuguese 1A or 60A.

### PSYCHOLOGY

Psychology Advising Fair: September 24, 1:30–3:00 P.M., Outside Social Sciences 1 and 2.

### RUSSIAN LANGUAGE

Call the Language Program at 459-2054 for information.

### SPANISH LANGUAGE

The placement exam is an online exam and can be taken at any time. The URL for the Spanish placement exam is: [www.ic.ucsc.edu/~test/](http://www.ic.ucsc.edu/~test/). **Note:** It takes three to four days to post exam results. Make sure you complete the placement exam a minimum of one week prior to your designated appointment time for Advance Enrollment.

### SPANISH FOR SPANISH SPEAKERS

See information posted at <http://language.ucsc.edu>. Once at this site, click on Placement at the top of the screen, and then select Spanish for Spanish Speakers to view the Self-Placement Guidelines for SpSS.

### WRITING

September 21, 1:00–3:00 P.M., M110 Media Theater, B206 Earth and Marine Sciences, and 105 Oakes.

November 22, 10:30 A.M.–12:30 P.M., 110 Media Theater, B206 Earth and Marine Sciences, Oakes 105, Classroom Unit 2, and Thimann 3.

# ORIENTATIONS AND PLACEMENT EXAMS

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## Department Orientations

### AMERICAN STUDIES

Sept. 23, 10:00–11:00 A.M., 245 Humanities I

### ANTHROPOLOGY

Sept. 23, 9:00 A.M.–12:00 noon,  
110 Social Sciences I

### ART

Sept. 23, 10:00 A.M.–12:00 P.M.,  
D-101 Baskin Visual Arts Seminar Room

### COMMUNITY STUDIES

Sept. 23, 10:00–11:30 A.M., 105 Oakes

### DUAL DEGREE

Sept. 23, 1:30–3:00 P.M., 192 or 194 Engineering 2

### EARTH AND PLANETARY SCIENCES

Sept. 23, 10:30–11:30 A.M.,  
A340 Earth and Marine Sciences

### ECONOMICS

Sept. 23, 9:30–11:00 A.M.  
152 Jack Baskin Engineering

### FEMINIST STUDIES

Sept. 23, 11:00 A.M.–12:00 noon,  
210 Humanities 1

### FILM AND DIGITAL MEDIA

Sept. 23, 10:00 a.m.–12:00 p.m.,  
150 Communication, Studio C

### HISTORY

Sept. 23, 10:00–11:30 A.M.,  
202 Humanities 1

### HISTORY OF ART AND VISUAL CULTURE

Sept. 23, 10:00–11:00 a.m., 248 Porter Academic

### LATIN AMERICAN AND LATINO STUDIES

Sept. 23, 9:00–10:00 A.M.,  
Charles E. Merrill Lounge

### LEGAL STUDIES

Sept. 23, 11:00 A.M.–12:00 noon,  
Charles E. Merrill Lounge

### LINGUISTICS

Sept. 23, 10:00–11:00 A.M., 175 Stevenson

### LITERATURE

Sept. 23, 10:00–11:30 A.M.,  
206 Humanities Lecture

### MATHEMATICS

Sept. 23, 11:00 A.M.–12:00 noon,  
301A Jack Baskin Engineering

### MUSIC

Sept. 23, 9:00–9:45 A.M., Music Center  
Music Center Recital Hall

### PHYSICS

Sept. 23, 10:00 A.M.–12:00 noon,  
231 and 235 ISB Building

### POLITICS

Sept. 23, 10:00–11:00 A.M.,  
Charles E. Merrill Lounge

### PSYCHOLOGY

Sept. 23, Frosh: 9:00–10:00 A.M.;  
Junior Transfers: 10:00–11:00 A.M.  
B206 Earth & Marine Sciences  
Psychology Advising Fair, 1:30–3:00 p.m.,  
Sept. 24, outside Social Sciences 1 and 2

### SOCIOLOGY

Sept. 23, 10:00 A.M.–12:00 noon  
240 College Eight

### SCHOOL OF ENGINEERING

Bioengineering, Biomolecular Engineering (Bio-  
informatics), Computer Engineering,  
Computer Science, Computer Science: Computer  
Game Design, Electrical Engineering,  
Engineering and Information Sciences Cluster,  
Information Systems Management  
Sept. 23, 10:30 A.M.–12:00 noon,  
101 Engineering Lecture

### THEATER ARTS

Sept. 23, 10:00–11:00 A.M., Theater Arts  
Second Stage

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## College Orientations

### COLLEGE EIGHT

Please refer to the College Eight Welcome Mailing for information about College Eight Academic Orientations and Freshman Core Course enrollment. A college-specific Academic Orientation will be required of all College Eight students.

### COLLEGE NINE

Please refer to the College Nine orientation materials that you will receive from the college.

### COLLEGE TEN

Please refer to the College Ten orientation materials that you will receive from the college.

### COWELL COLLEGE

Please refer to the Cowell College orientation materials that you will receive from the college.

### CROWN COLLEGE

Location to be announced in college orientation handbook.

### KRESGE COLLEGE

Please refer to the Kresge College orientation materials for scheduled time and location.

### MERRILL COLLEGE

Please refer to the Merrill College orientation materials that you will receive from the college.

### OAKES COLLEGE

See Oakes College orientation materials sent in August for a complete schedule.

### PORTER COLLEGE

Refer to the Porter College orientation materials that you will receive from the college.

### STEVENSON COLLEGE

Please consult your August mailing from the College for specific times and locations.

## ENROLLMENT CONDITIONS

### Enrollment Conditions for Interview-Only Courses

Listed below are instructions for students wishing to enroll in Interview-Only courses. These courses are identified with a Y in the consent-required column of the *Schedule of Classes*. Students wishing to enroll in these classes need to receive a permission number from the sponsoring agency or instructor.

#### **ART 127A, 127B**

Application for enrollment available in Art Department office.

#### **CMMU 100J, 100M**

Admission determined at first class meeting. Please see the department bulletin board for more information.

#### **CMMU 130**

Background check required.

#### **CRWN 185**

For students intending to participate in an internship before graduation. Students need to contact instructor at 459-3973, or by e-mail at [bsilver@ucsc.edu](mailto:bsilver@ucsc.edu).

#### **FMS1 196**

Meet with instructor by May 14 for an interview.

#### **FILM**

All students applying for admission to an "Interview Only" course in Film and Digital Media must attend the first class meeting.

#### **FILM 150, 151**

Application materials and instructions are available at the department office beginning May 12.

#### **FILM 170B**

Application materials explain application process and entrance essay and are available at the department office beginning May 12.

#### **FILM 172, 175**

Application materials and instructions are available at the department office beginning May 12. Priority will be given to students who have been accepted into the production concentration through the portfolio review.

#### **LING 190**

Enrollment by permission code, issued by Linguistics Department.

#### **LTCR 52, 53**

Please bring a three- to seven-page sample to the first class meeting.

#### **MERR 80X**

Merrill College frosh are selected for this yearlong scholars program on the basis

of an application submitted prior to fall quarter.

#### **MERR 85B**

Admission determined at first class meeting. E-mail questions to [classroomconnection@ucsc.edu](mailto:classroomconnection@ucsc.edu).

#### **MUSC 1C, 2, 3, 6, 9, 102, 103, 163, 164, 165, 166**

For audition/enrollment information, please check bulletin board outside 127 Music Center beginning September 20.

#### **MUSC 4A-B, 5A-B-C, 8, 10, 30L, 51, 54, 60, 74**

Admission by instructor determination at first class meeting.

#### **MUSC 30A**

Admission by taking the Music Core Curriculum Placement Exam, September 23, 10:00 A.M.–12:30 P.M., Music Center Recital Hall.

#### **MUSC 61, 62, 63, 161, 162, 196B, 261**

(Applied Instruction) Application forms available September 22 in 244 Music Center. Meet instructors September 23, 1:30–4:30 P.M. See bulletin board upstairs in the Music Center for details. Obtain class number September 23–October 3 from 244 Music Center. Lesson application must be signed by instructor. Concurrent enrollment in an ensemble required for Music 61, 62, 161, and 162.

#### **MUSC 159A-B**

Admission by permission of vocal instructor, or by audition. Audition information posted outside 127 Music Center beginning September 20.

#### **MUSC 165, 265**

Faculty sponsor required for chamber music workshops. Audition/enrollment information posted outside 127 Music Center beginning September 20. Class number available at the **beginning of the quarter** from 244 Music Center.

#### **THEA 21, 126**

Audition at the first class meeting. Come prepared with a one- or two-minute monologue.

#### **THEA 45, 55A-B, 151**

Contact the department for audition information.

#### **WRIT 169**

Qualifications determined by the instructor at the first class meeting.



## Physical Education Classes

### *Important Information!*

If you are trying to enroll in a physical education class on the MyUCSC portal and the system indicates the class is full—do not despair. Instead, come to the first day of class. There is a strong possibility that you will be able to enroll at that point.

## Key Dates for Undergraduate Registration and Enrollment

(Refer to the Academic and Administrative Calendar, pages 6 and 7, for complete deadline information.)

<p><b>Priority Enrollment</b> Continuing and Readmitted Undergraduates May 19 – June 27</p>	<p><b>New Student Enrollment</b> Enrollment Closed to Continuing Undergraduates June 28 – July 28</p>	<p><b>Open Enrollment</b> Continuing, Readmitted and New Undergraduates July 29 – September 24</p>
<p><b>Registration Fees Due</b> September 17 **</p>	<p><b>Enrollment Deadline</b> September 29† <b>Permission Numbers Required</b> October 4</p>	<p><b>Add/Drop/Swap</b> September 25 – October 15</p>
<p><b>Grade Option Deadline</b> October 15</p>	<p><b>Withdraw from a Class</b> October 16 – November 4</p>	<p><b>Add by Petition Period</b> October 16 – November 4</p>

\*\* If payment is not received by the cashier by 4:00 P.M., you will be assessed a \$50 late registration fee.

† You must be enrolled in at least one course or the \$50 late enrollment fee is assessed.

## Graduate Student Enrollment Appointment Schedule

- View your appointment time(s) on MyUCSC. Click on Enroll in Classes, then click on the Enrollment Appointments link.
- Students may begin enrolling for classes at the designated appointment time(s).
- There are no enrollment appointments on weekends and holidays.
- Appointments are randomly assigned.
- Enrollment Appointment FAQs: [http://reg.ucsc.edu/enrollment\\_appointments/faqs.html](http://reg.ucsc.edu/enrollment_appointments/faqs.html)

5/19	5/20	6/19	9/24	10/3
<b>Graduate Students</b> 19-unit limit Appointments at 9:00 and 9:30 A.M.	Enrollment continues for graduate students	New graduate student enrollment	Enrollment ends for graduate students	Graduate student enrollment fee deadline

## ENROLLMENT INFORMATION

### Undergraduate Two-Pass Enrollment Appointment Schedule

- View your appointment time(s) on MyUCSC. Click on Enroll in Classes, then click on the Enrollment Appointments link.
- Students may begin enrolling in classes at the designated First-Pass appointment time(s).
- There are no enrollment appointments on weekends and holidays.
- Appointments are randomly assigned within each class level.
- Fall enrollment will be closed to continuing undergraduates June 28–July 28.
- Enrollment Appointment FAQs: [http://reg.ucsc.edu/enrollment\\_appointments/faqs.html](http://reg.ucsc.edu/enrollment_appointments/faqs.html)

5/19	5/19	5/20–6/27	6/28–7/28	7/29–9/24
<b>Priority Groups</b> 19-unit limit 10:00 A.M.–11:30 A.M. Appts. every 1/2 hr.	<b>Seniors</b> 19-unit limit 12:00–4:00 P.M. Appts. every 1/2 hr.	Enrollment continues for priority groups and seniors.	New Student Enrollment. Enrollment closed to continuing students.	Open enrollment for all undergraduate students

#### First-Pass Appointments\*

#### Second-Pass Appointments\*

#### Open Enrollment

5/20	5/21–5/25	5/26	5/27–6/27	6/28–7/28	7/29–9/24
<b>Juniors</b> 14-unit limit 9:00 a.m.–4:30 P.M. Appts. every 1/2 hr.	Enrollment remains open to juniors until 11:59 P.M. on May 25	<b>Juniors</b> 19-unit limit 9:00 A.M.–4:00 P.M. Appts. every 1/2 hr.	Enrollment continues for juniors	New Student Enrollment. Enrollment closed to continuing undergraduate students.	Open enrollment for all undergraduate students

5/21	5/22–5/25	5/27	5/28–6/27	6/28–7/28	7/29–9/24
<b>Sophomores</b> 14-unit limit 9:00 a.m.–4:30 P.M. Appts. every 1/2 hr.	Enrollment remains open to sophomores until 11:59 P.M. on May 25	<b>Sophomores</b> 19-unit limit 9:00 A.M.–4:00 P.M. Appts. every 1/2 hr.	Enrollment continues for sophomores	New Student Enrollment. Enrollment closed to continuing undergraduate students.	Open enrollment for all undergraduate students

5/22	5/23–5/25	5/28	5/29–6/27	6/28–7/28	7/29–9/24
<b>Frosh</b> 14-unit limit 9:00 a.m.–4:30 P.M. Appts. every 1/2 hr.	Enrollment remains open to frosh until 11:59 P.M. on May 25	<b>Frosh</b> 19-unit limit 9:00 A.M.–4:00 P.M. Appts. every 1/2 hr.	Enrollment continues for frosh	New Student Enrollment. Enrollment closed to continuing undergraduate students.	Open enrollment for all undergraduate students

\*Students may begin enrolling at their designated appointment times and continue enrolling through the end of the appointment period.

### Determining Your Academic Level

**Freshman: 0–44.9 credits**

**Soph: 45–89.9 credits**

**Junior: 90–134.9 credits**

**Senior: 135+ credits**

# ENROLLMENT INFORMATION

## Student Responsibility

You are responsible for ensuring the accuracy of your enrollments. Your instructors, academic advisers, and the Office of the Registrar cannot enroll on your behalf. Be sure to verify your classes and grade options prior to the enrollment deadlines listed in the Academic and Administrative Calendar on pages 6–7.

## Get Prepared

Use the following helpful hints to assist you in completing your enrollment. It is recommended that you consult with your academic preceptor or major adviser prior to selecting your classes. Review the Enrollment FAQs at <http://reg.ucsc.edu/faqs/enrollment.htm>.

1. Check the listing of courses offered this quarter in this *Schedule of Classes*, and make some preliminary selections. Updated information can be found in the online schedule at [reg.ucsc.edu/soc/](http://reg.ucsc.edu/soc/).
  2. Use the Schedule Planner found in this *Schedule of Classes*. Complete the planner with your preliminary selections of classes, making sure the classes you have selected do not conflict with each other or with any other time commitments (i.e., work or extracurricular activities).
  3. Enter the 5-digit class numbers into the Schedule Planner. Make sure to have class numbers for mandatory sections and alternates in case the section is full.
- Completing the above steps will help you to complete your enrollment.

## Holds on Enrollment

A hold may be placed on your enrollment for various reasons, including unpaid debts, junior standing without a declared major, and others. When you attempt to enroll in AIS, a hold creates an error message. Students may view their holds by logging on to the MyUCSC portal and clicking on the Holds and To Do Lists link. Information on how to remove each hold is included.

## Appointment Times

Students may view their priority enrollment appointment time by logging into the MyUCSC portal at [my.ucsc.edu](http://my.ucsc.edu) and clicking on Enrollment and Classes and then clicking on the *Enrollment Appointment* link.

## Appointment Time Problems

If you are not eligible to enroll, consider the following circumstances:

- verify your appointment time;
- if you were anticipating transfer credit to change your academic level, or if you check your credits and still believe the academic level is wrong, call the Registrar's office;

- if you planned to study abroad with the Education Abroad Program (EAP) but your plans have changed, contact your EAP adviser;
- if you applied to graduate and your plans have changed, reapply to graduate. For more information, see Apply/Reapply to Graduate online at [http://reg.ucsc.edu/graduation\\_announcement\\_cerequest.htm](http://reg.ucsc.edu/graduation_announcement_cerequest.htm).
- if you are barred or disqualified, contact your college.

If you cannot determine the reason for your appointment time problem, contact the Registrar's office.

## Minimum/Maximum Credits

### Standard course loads for UCSC students

Undergraduate students are expected to take a minimum of 15 credits and may enroll in up to 19 credits. Graduate students are expected to enroll in at least 10 credits and no more than 19 credits. Undergraduates who have a 3.0 cumulative grade point average may enroll in up to 22 credits beginning the first day of instruction. If you wish to take a nonstandard course load, meet with your college academic preceptor or graduate adviser who will update the system if the nonstandard courseload is approved so that you can complete enrollment.

### When minimum credits are enforced

Minimum credits are not enforced until a few days prior to the start of instruction. (For the date, see the Academic and Administrative Calendar, pages 6-7.) Once minimum credits are enforced, you will not be able to drop below the minimum unless you obtain approval from your academic preceptor or graduate adviser. To drop a course and add another, use the swap function. Financial aid recipients should be cautious; certain aid will not be disbursed if enrollment is less than full-time.

### When maximum credits are enforced

Students may enroll in no more than 19 credits prior to the first day of instruction.

## Class Numbers

Every course has a 5-digit class number which is used for enrollment. The class number appears in the first column in the *Schedule of Classes*. A Y in the second Consent Required column indicates an Interview Only course. To enroll in one of these classes, read the section Enrollment Conditions for Interview Only Courses on page 11. Obtain a permission number from the instructor or department in order to enroll.

To enroll in independent study, you must first pick up a petition for independent study at the department, college, or division office and obtain the approval of the UCSC instructor who will supervise your study. Next, the sponsoring agency will assign a class number for you to use to enroll online.

## Requirements

### (Prerequisites and Restrictions)

- A class that has a prerequisite means that other courses must be completed or a placement exam must be satisfied before the course can be taken. Classes for which a “D,” “F,” “NP,” “W,” or “I” is received do not satisfy prerequisite requirements.
- A class that has restrictions is available only to certain categories of students.

Refer to Reading the Class Listings, page 40, or to the *UCSC General Catalog* to determine the prerequisites or restrictions of a class.

### Prerequisites satisfied at other institutions

If you believe course work completed at another institution satisfies a prerequisite, contact the department sponsoring the class.

## Secondary Discussion Sections/Labs

### What is a secondary discussion section/lab?

A section is a smaller discussion group or lab class which is taken as part of a credit course, but no credit is awarded. Secondary sections/labs are always listed directly below the main lecture. Not all secondary sections require enrollment.

### Swapping Sections

To swap sections it is not necessary to drop the class. Use the swap function. For more information, see [reg.ucsc.edu/staff/ais\\_info/pdf/How\\_to\\_swap.pdf](http://reg.ucsc.edu/staff/ais_info/pdf/How_to_swap.pdf).

### When the lecture or sections are closed (full)

If there is space in the lecture, but you cannot find an open section, you cannot enroll in the class. If you have a permission number for the lecture and all the sections are full, contact the department offering the course.

## Concurrent Enrollment

When a note below the class title indicates concurrent enrollment, previous or concurrent enrollment in another class is required. For example, if you enroll in BIOL-169L-01, you should concurrently enroll in the associated class, which is BIOL-169-01.

The term, “concurrent enrollment,” can be confusing. Please note:

- it is not the same as a discussion section (see Secondary Discussion Sections/Labs above);
- it is not the same as concurrent enrollment through UC Extension, in which a person enrolls in a regular UCSC course as an Extension student.

## Class Permission Numbers

A class permission number is an assigned number that allows you to enroll in a class. It is specific to a class and can be used only once. Also, after an unsuccessful

## ENROLLMENT INFORMATION

attempt to add a class, the number can't be used again.

To obtain a class permission number, consult with the instructor or department.

### What a class permission number can override

A class permission number overrides course restrictions and/or prerequisites, and overrides the closed (full) status of a class.

### What a class permission number CANNOT override

Class permission numbers cannot override time conflicts, your maximum allowed units, holds, or a closed (full) section.

## Time Conflicts

### Why you might have a time conflict

Courses which have the same start and end times are considered a time conflict. If the printed *Schedule of Classes* does not indicate a time conflict, check online at [reg.ucsc.edu/soc](http://reg.ucsc.edu/soc) for the most up-to-date class information.

### How to resolve a time conflict

If your classes overlap but you believe that you can complete both classes in spite of the conflict, you should call the Office of the Registrar at 459-4412 for assistance.

## Retaining Enrollments

To retain a seat in your classes, you **must** attend the first class meeting. Instructors **may** administratively drop anyone who does not attend.

## Enrolling after Instruction Begins

Attend the first class meeting of any classes you want to add. Permission numbers are required for all classes after the seventh day of instruction but may be required earlier. If necessary, the instructor will issue a class permission number.

## U.S. Ethnic Studies Courses for Fall 2008

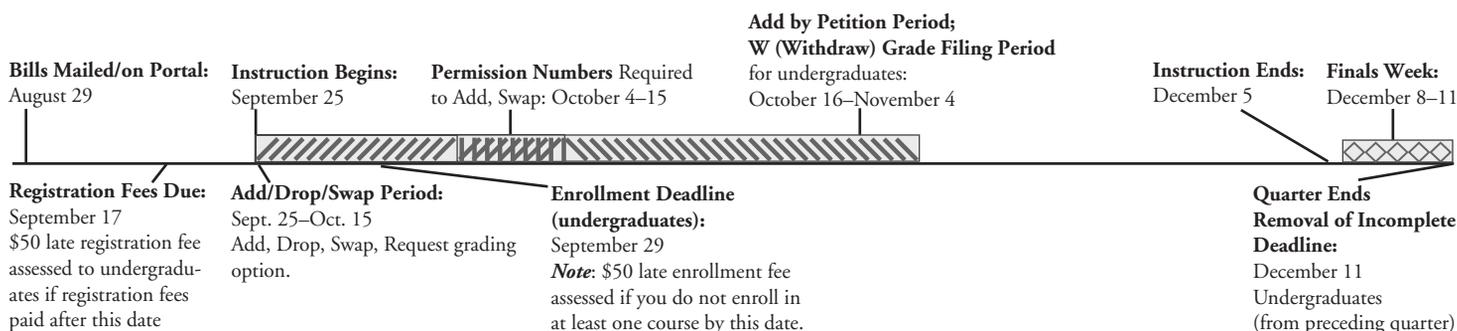
In recognition of increasing faculty and student interest in studies related to major ethnic groups in the United States, many courses have been added in this area. Below is a sampling of courses offered in fall quarter that focus on comparative studies or on one of these U.S. ethnic groups: African American, Asian American, Chicano, Jewish, or Native American. These courses, among others, may be used to satisfy the U.S. Ethnic Minorities/Non-Western Society ("E") general education requirement.

AMST 10	<i>Introduction to American Studies</i>
AMST 80E	<i>U.S. Racial and Ethnic Histories and Formations</i>
AMST 123M	<i>Celluloid Natives: American Indian History on Film</i>
AMST 126C	<i>Chicana/o Literature and Film</i>
AMST 190H	<i>Race, Politics, and Region</i>
ANTH 130N	<i>Native Peoples of North America</i>
CMMU 80B	<i>Civil Rights Movement: Grassroots Change and American Society</i>
CMMU 100J	<i>Immigration and Social Justice</i>
CMMU 114	<i>Whiteness, Racism, and Anti-Racism</i>
ECON 128	<i>Poverty and Public Policy</i>
EDUC 181	<i>Race, Class, and Culture in Education</i>
FMST 80Y	<i>Violence Against Women of Color</i>
FMST 194F	<i>Chicana/Latina Cultural Production</i>
HIS 106B	<i>Asian and Asian American History, 1941–Present</i>
HIS 121A	<i>African American History to 1877</i>
LALS 1	<i>Introduction to Latin American and Latino Studies</i>
LALS 80F	<i>Latinos in the U.S.: A Comparative Perspective</i>
LALS 80Q	<i>Musica Latina</i>
LALS 173	<i>Latin American Immigration to the U.S.</i>
LALS 175	<i>Migration, Gender, and Health</i>
LGST 128	<i>Poverty and Public Policy</i>
LIT 80N	<i>Latino Expressions in the U.S.</i>
STEV 80H	<i>Rainbow Theater: An Introduction to Multicultural Theater</i>

## Verify Your Enrollments

It is recommended that you verify your classes and grade options, via MyUCSC, after you complete your enrollment transactions. It is also recommended that you verify your enrollments and print your Class Schedule before the end of the Add/Drop/Swap period. Print your Class Schedule by clicking on Enrollment and Classes and then clicking on the My Class Schedule link.

# Fall 2008 Registration and Enrollment Timeline



## COURSES WITH FEES

The following is a list of the Campus Course Materials Fees that have been approved by the Miscellaneous and Course Materials Fee Advisory Committee to be charged for courses in 2008–09. Contact the departments for more information. This list is also available on the web at [reg.ucsc.edu/coursefees.html](http://reg.ucsc.edu/coursefees.html).

### Anthropology

ANTH 107L/207L <i>Human Functional Anatomy Laboratory</i> .....	\$60
ANTH 110 <i>Comparative Functional Anatomy</i> .....	\$45
ANTH 180 <i>Ceramic Analysis in Archaeology</i> .....	\$25
ANTH 190B <i>Primate Field Ecology: Field Methods in Primatology</i> .....	\$780
ANTH 290B <i>Primate Field Ecology: Field Methods in Primatology</i> .....	\$780

### Art

ART 10G <i>2D Foundation</i> .....	\$5
ART 10H <i>3D Foundation</i> .....	\$45
ART 10J <i>Technology Foundation</i> .....	\$15
ART 20 <i>Introduction to Drawing for Majors</i> .....	\$25
ART 22 <i>Intro to Electronics for Intermedia</i> .....	\$30
ART 23 <i>Intermedia I</i> .....	\$32
ART 24A <i>Introduction to Painting (Oil)</i> .....	\$50
ART 24B <i>Introduction to Painting: Acrylic</i> .....	\$50
ART 25 <i>Relief Printmaking</i> .....	\$65
ART 26 <i>Introduction to Printmaking</i> .....	\$70
ART 27 <i>Monoprinting/Mixed Media Printing</i> ..	\$65
ART 28 <i>Introduction to Figurative Sculpture</i> ....	\$75
ART 29 <i>Begin Intermedia: 3D Approaches</i> .....	\$42
ART 30 <i>Intro to Photography for Art Majors</i> ....	\$67
ART 39 <i>Public Art I: Community, Site, &amp; Place</i> ..	\$50
ART 40 <i>Sculpture I</i> .....	\$53
ART 60 <i>Forms and Ideas</i> .....	\$15
ART 70A <i>Bookbinding</i> .....	\$60
ART 70B <i>Printing I: Elements of Printing</i> .....	\$60
ART 70C <i>Printing II: Typography &amp; Book Design</i>	\$60
ART 80D <i>Introduction to Photography</i> .....	\$25
ART 101 <i>Intermediate/Advanced Drawing</i> .....	\$35
ART 102 <i>Figure Drawing</i> .....	\$40
ART 103 <i>Intermediate/Advanced Painting</i> .....	\$48
ART 104 <i>Special Topics in Painting</i> .....	\$48
ART 106A <i>Sr. Studio in Draw/Paint</i> .....	\$48
ART 107 <i>Mixed Media Works on Paper</i> .....	\$25
ART 109 <i>Intermedia II</i> .....	\$32
ART 110 <i>Special Topics: Interactive Art</i> .....	\$32
ART 111 <i>Book Arts II</i> .....	\$60
ART 112 <i>Intaglio I</i> .....	\$70
ART 113 <i>Relief and Intaglio Printmaking II</i> ....	\$70
ART 114 <i>Lithography I</i> .....	\$60
ART 115 <i>Lithography II</i> .....	\$70
ART 116A <i>Sr. Studio Printmaking</i> .....	\$70
ART 117 <i>Special Topics in Printmaking</i> .....	\$70
ART 118 <i>Computer Art: Theories, Methods, and Practices</i> .....	\$36
ART 120 <i>Adv Projects in Computer Art I</i> .....	\$45
ART 123 <i>Digital Printmaking in Contemporary Art Practice</i> .....	\$67
ART 126 <i>Art of Bookmaking</i> .....	\$55
ART 127A <i>Visiting Artist Special Topics: A</i> ...	\$55-\$75
ART 130 <i>Intermediate Photography</i> .....	\$67
ART 131 <i>Advanced Photography</i> .....	\$67
ART 132 <i>Color in Photography</i> .....	\$77
ART 133A <i>Sr. Studio in Photography</i> .....	\$67
ART 134 <i>Special Topics in Photography</i> .....	\$70
ART 135 <i>Intro Digital Photography</i> .....	\$55
ART 136 <i>Adv Digital Photography</i> .....	\$55
ART 138 <i>Intermediate/Adv Sculpture</i> .....	\$43
ART 139 <i>Intermed/Adv Sculpture Foundry</i> ....	\$150
ART 140 <i>Metal Sculpture</i> .....	\$81

ART 141 <i>Sculpture II</i> .....	\$65
ART 143 <i>Adv Intermedia: 3D Approaches</i> .....	\$42
ART 144 <i>Site Works</i> .....	\$42
ART 145 <i>Material Metaphor II</i> .....	\$47
ART 146 <i>Special Topics Intermedia/ Conceptual and Process-Oriented Approaches</i> .....	\$50
ART 148 <i>Special Topics Sculpture/Public Art</i> ....	\$55
ART 156 <i>Topics in Public Art: Memory, Landscape, and Artist as Activist</i> .....	\$50
ART 159A <i>Senior Studio in Intermedia, Sculpture, and Electronic Art</i> .....	\$60
ART 161 <i>Picturing Identity: Document and Culture</i> .....	\$65
ART 199 <i>Tutorial</i> .....	\$50

### Biochemistry and Molecular Biology

BIOC 110 <i>Biochemistry Lab</i> .....	\$50
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### Biology

BIOE 75 <i>Scientific Diving Certification</i> .....	\$335
BIOE112L <i>Ornithology Field Studies</i> .....	\$25
BIOE 114L <i>Field Methods in Herpetological Research</i> .....	\$40
BIOE 117L <i>Systematic Botany of Flowering Plants Laboratory</i> .....	\$25
BIOE 120L <i>Marine Botany Laboratory</i> .....	\$20
BIOE 122L <i>Invertebrate Zoology Laboratory</i> ....	\$20
BIOE 127L <i>Ichthyology Laboratory</i> .....	\$15
BIOE 129L <i>Biology of Marine Mammals Lab</i> ..	\$25
BIOE 131L <i>Animal Physiology Laboratory</i> .....	\$5
BIOE 141L <i>Behavioral Ecology Field Course</i> ....	\$50
BIOE 145L <i>Field Methods in Plant Ecology</i> ....	\$35
BIOE 150L <i>Ecological Field Methods Lab</i> .....	\$100
BIOE 151 <i>Ecology and Conservation in Practice Supercourse</i> .....	\$1,962
BIOE 158L <i>Marine Ecology Laboratory</i> .....	\$20
BIOE 159A <i>Marine Ecology Field Quarter</i> ..	\$3,392
BIOE 161L <i>Kelp Forest Ecology Laboratory</i> .....	\$60
BIOL 20L <i>Experimental Biology Laboratory</i> ....	\$15
BIOL 100L <i>Biochemistry Laboratory</i> .....	\$40
BIOL 105L <i>Eukaryotic Genetics Laboratory</i> ....	\$40
BIOL 105M <i>Microbial Genetics Laboratory</i> ....	\$25
BIOL 109L <i>Yeast Molecular Genetics Lab</i> .....	\$40
BIOL 110L <i>Cell Biology Laboratory</i> .....	\$50
BIOL 111L <i>Immunology Laboratory</i> .....	\$75
BIOL 115L <i>Eukaryotic Molecular Biol Lab</i> ....	\$50
BIOL 119L <i>Microbiology Laboratory</i> .....	\$30
BIOL 120L <i>Development Laboratory</i> .....	\$40
BIOL 128L <i>Neural Genetics Laboratory</i> .....	\$40
BIOL 130L <i>Human Physiology Laboratory</i> .....	\$10
BIOL 131L <i>Animal Physiology Laboratory</i> .....	\$10
BIOL 135L <i>Human Functional Anatomy Lab</i> ..	\$60
BIOL 176L <i>Molecular Ecology/Evolution Lab</i> ..	\$10
BIOL 187L <i>Molecular Biotechnology Lab</i> .....	\$50

### Chemistry

CHEM 1M <i>General Chemistry Laboratory</i> .....	\$10
CHEM 1N <i>General Chemistry Laboratory</i> .....	\$15
CHEM 80H/80L <i>Intro to Wine Chemistry</i> .....	\$40
CHEM 108L <i>Organic Chemistry Lab</i> .....	\$30
CHEM 108M <i>Organic Chemistry Lab</i> .....	\$35
CHEM 112L <i>Organic Chemistry Lab</i> .....	\$40
CHEM 112M <i>Organic Chemistry Lab</i> .....	\$40
CHEM 112N <i>Organic Chemistry Lab</i> .....	\$75
CHEM 122 <i>Principles Instrumental Analysis</i> ....	\$40

CHEM 146A <i>Adv Lab Organic Chemistry</i> .....	\$40
CHEM 146B <i>Adv Lab Inorganic Chemistry</i> ....	\$50
CHEM 146C <i>Adv Lab Physical Chemistry</i> .....	\$40
CHEM 151L <i>Inorganic Chemistry Lab</i> .....	\$50
CHEM 164B <i>Physical Chemistry Lab II</i> .....	\$25

### Computer Engineering

CMPE 100L <i>Logic Design Laboratory</i> .....	\$30
CMPE 117L <i>Embedded Software Laboratory</i> ...	\$30
CMPE 118L <i>Intro. to Mechatronics Lab</i> .....	\$100
CMPE 121L <i>Microprocessor Sys. Design Lab</i> ..	\$160
CMPE 123A <i>Engineering Design Project I</i> .....	\$40
CMPE 123B <i>Engineering Design Project II</i> .....	\$40
CMPE 125L <i>Logic Design w/ Verilog Lab</i> .....	\$25
CMPE 126L <i>Advanced Logic Design Lab</i> .....	\$25
CMPE 150 <i>Introduction to Computer Networks</i>	\$30
CMPE 151 <i>Network Administration</i> .....	\$30
CMPE 156L <i>Network Programming Lab</i> .....	\$30
CMPE 163L <i>Multimedia Processing/App. Lab</i> ..	\$25
CMPE 167L <i>Sensing and Sensor Technologies Laboratory</i> .....	\$10
CMPE 172L <i>Linear/Non-Linear Circuits</i> ...	\$15
CMPE 173L <i>Hi Speed Dig Design Lab</i> .....	\$85
CMPE 174 <i>Intro. to EDA Tools for PCB Design</i> .	\$25

### Cowell College

COWL 70A <i>Bookbinding</i> .....	\$60
COWL 70B <i>Printing I: Elements of Printing</i> ...	\$60
COWL 70C <i>Printing II: Typography and Book Design</i> .....	\$60

### Digital Arts and New Media

DANM 219 <i>Intro. to Electronics for Artmaking</i> ..	\$35
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### Earth Sciences

EART 5L <i>California Geology Laboratory</i> .....	\$15
EART 10L <i>Geologic Principles Laboratory</i> .....	\$20
EART 20L <i>Environmental Geology Laboratory</i> .	\$10
EART 80B <i>Earthquakes</i> .....	\$15
EART 100 <i>Vertebrate Paleontology</i> .....	\$20
EART 104 <i>Geologic Hazards</i> .....	\$10
EART 105 <i>Coastal Geology</i> .....	\$20
EART 109 <i>Elements of Field Geology</i> .....	\$70
EART 110C <i>The Dynamic Earth</i> .....	\$10
EART 116 <i>Hydrology</i> .....	\$10
EART 117 <i>Paleomagnetism</i> .....	\$25
EART 120 <i>Sedimentology and Stratigraphy</i> ....	\$30
EART 125 <i>Geographic Information Systems</i> ....	\$20
EART 130 <i>Magnas and Volcanoes</i> .....	\$10
EART 140L <i>Geomorphology Laboratory</i> .....	\$50
EART 142 <i>Engr. Geology for Enviro. Scientists</i> .	\$10
EART 146 <i>Groundwater</i> .....	\$10
EART 148 <i>Glaciology</i> .....	\$45
EART 150 <i>Structural Geology</i> .....	\$25
EART 188A-B <i>Senior Field Internship</i>	

UCSC Students.....	\$1,800
Non-UCSC Students .....	\$2,000
UCSC Students 1 Session.....	\$1,000
Non-UCSC Students 1 Session .....	\$1,100
EART 205 <i>Introductory Graduate Seminar</i> .....	\$30
EART 263L <i>Planetary Field Course</i> .....	\$20

### Electrical Engineering

EE 70L <i>Intro Electronic Circuits Lab</i> .....	\$30
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Continued on next page

## COURSES WITH FEES

EE 123A <i>Engineering Design Project I</i> .....	\$40
EE 123B <i>Engineering Design Project II</i> .....	\$40
EE 130L <i>Intro to Optoelectronics Lab</i> .....	\$20
EE 135L <i>Electromagnetic Flds &amp; Waves Lab</i> .....	\$40
EE 145L <i>Properties of Materials Lab</i> .....	\$30
EE 171L <i>Analog Electronics Lab</i> .....	\$30

### Engineering

For information on fees for School of Engineering courses, see [www.soe.ucsc.edu/administration/labs/](http://www.soe.ucsc.edu/administration/labs/).

ENGR 50L <i>Engineering Mechanics Lab</i> .....	\$20
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### Environmental Studies

ENVS 109B *Ecology and Conservation in*

*Practice Supercourse*..... \$1,962

ENVS 107A *Natural History Field Quarter*... \$400

### Film and Digital Media

Fees for film courses may be less than published or not charged for a particular quarter. Contact the Film and Digital Media Department for information.

FILM 20A <i>The Film Experience</i> .....	\$2
FILM 20B <i>Intro to TV Culture and Society</i> .....	\$2
FILM 20C <i>Intro to Digital Media</i> .....	\$2
FILM 20P <i>Intro to Production Technique</i> .....	\$15
FILM 80A <i>Technothrillers</i> .....	\$1
FILM 120 <i>Intro to Film Theory and Criticism</i> ...	\$2
FILM 130 <i>Silent Cinema</i> .....	\$4
FILM 132A-B <i>International Cinema to 1960</i> ....	\$4
FILM 132C <i>Gender and Global Cinema</i> .....	\$5
FILM 134A <i>American Film, 1930–1960</i> .....	\$4
FILM 134B <i>American Film, 1960–Present</i> .....	\$4
FILM 136A <i>Experimental Film and Video</i> .....	\$12
FILM 136B <i>History of Television</i> .....	\$5
FILM 136C <i>Visual Culture and Technology</i> .....	\$8
FILM 142 <i>Beyond Cybernetics: Adv Topics in New Media Technologies</i> .....	\$15
FILM 160 <i>Film Genres</i> .....	\$8
FILM 161 <i>Documentary Film and Video</i> .....	\$10
FILM 162 <i>Film Authors</i> .....	\$8
FILM 165A <i>Film, Video, and Gender</i> .....	\$15
FILM 165B <i>Race on Screen</i> .....	\$15
FILM 165C <i>Lesbian, Gay, Queer Film &amp; Video</i> ...	\$15
FILM 165D <i>Asian Americans and Media</i> .....	\$15
FILM 168 <i>National Cinema and Culture</i> .....	\$15
FILM 170A <i>Intro to Digital Media Production</i> ..	\$35
FILM 170B <i>Fundamentals Film/Video Prod.</i> ...	\$190
FILM 171A <i>Sound</i> .....	\$161
FILM 172 <i>Film/Video Studio</i> .....	\$292
FILM 173 <i>Narrative Workshop</i> .....	\$210
FILM 175 <i>Documentary Video Workshop</i> .....	\$210
FILM 176 <i>Experimental Video Workshop</i> .....	\$210
FILM 177 <i>Digital Media Workshop</i> .....	\$20
FILM 178A <i>Personal Computers in Film/Video</i> ..	\$147
FILM 185D <i>Sound/Image in Theory, Criticism</i> ..	\$12
FILM 185E <i>Chicano/Latino Cinema, Video</i> .....	\$12
FILM 185R <i>The Film Remake</i> .....	\$12
FILM 185S <i>Advanced Topics in Film Studies</i> ....	\$12
FILM 185X <i>Eye Candy Seminar</i> .....	\$12
FILM 187 <i>Adv Topics in TV Studies</i> .....	\$8
FILM 189 <i>Adv Topics in Digital &amp; Electronic Media Studies</i> .....	\$5
FILM 194A <i>Film Theory Seminar</i> .....	\$15
FILM 194B <i>Electronic Media Theory Seminar</i> ..	\$15
FILM 194C <i>New Media Theory Seminar</i> .....	\$15
FILM 194D <i>Film History Seminar</i> .....	\$12
FILM 194E <i>International Cinemas</i> .....	\$15

FILM 194F <i>Film and Other Arts: Music/Dance</i> ..	\$15
FILM 194G <i>New(s) Media</i> .....	\$15
FILM 194S <i>Special Topics Seminar</i> .....	\$12
FILM 196A <i>Sr. Project Film/Video Producn</i> ...	\$292
FILM 197 <i>Sr. Digital Media Workshop</i> .....	\$20
FILM 283 <i>New Media Art and Digital Culture</i> ...	\$20

### History

HIS 7 <i>Archives and Public History</i> .....	\$20
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### Music

MUSC 1A <i>Women's Choral</i> .....	\$10
MUSC 1C <i>University Concert Choir</i> .....	\$10
MUSC 2 <i>University Orchestra</i> .....	\$10
MUSC 3 <i>Large Jazz Ensemble</i> .....	\$10
MUSC 9 <i>Wind Ensemble</i> .....	\$10
MUSC 60 <i>Group Piano Maj/Min</i> .....	\$65
MUSC 60 <i>Group Piano Nonmaj/Nonmin</i> .....	\$75
MUSC 61 <i>Indv Lessons (½hr) Maj/Min</i> .....	\$100
MUSC 61 <i>Indv Lessons (½hr) Nonmaj/Nonmin</i>	\$130
MUSC 62 <i>Indv Lessons (1hr) Maj/Min</i> .....	\$150
MUSC 62 <i>Indv Lessons (1hr) Nonmaj/Nonmin</i>	\$190
MUSC 63 <i>Group Instrumental/Vocal/Maj/Min</i>	\$65
MUSC 63 <i>Group Instrumental/Vocal Nonmajor/Nonminor</i> .....	\$75
MUSC 102 <i>University Orchestra</i> .....	\$10
MUSC 103 <i>University Concert Choir</i> .....	\$10
MUSC 159A-B <i>Opera Workshop</i> .....	\$10
MUSC 160 <i>University Opera Theater</i> .....	\$10
MUSC 161 <i>Indv Lessons (1hr) Maj/Min</i> .....	\$150
MUSC 161 <i>Indv Lessons (1hr) Nonmaj/Nonmin</i>	\$190
MUSC 162 <i>Adv Lessons (1hr) Maj/Min</i> .....	\$150
MUSC 162 <i>Adv Lessons (1hr) Nonmaj/Nonmin</i>	\$190
MUSC 166 <i>Chamber Singers</i> .....	\$10
MUSC 196B <i>Sr. Recital Prep. (indiv. lessons)</i> ..	\$150
MUSC 261 <i>Grad. Applied Inst. (1 hr) Major</i> ..	\$150

### Physical Education

PHYE 5E <i>Aquatics: Lifeguard Training</i> .....	\$90
PHYE 5F <i>Water Safety Instructor</i> .....	\$55
PHYE 5R <i>Aquatics: Basic Scuba Diving</i> .....	\$75
– <i>Basic Scuba Certification</i> .....	\$55
PHYE 5T <i>Aquatics: Adv Scuba Diving</i> .....	\$95
– <i>Advanced Scuba Certification</i> .....	\$20
PHYE 5U <i>Aquatics: Rescue Scuba Instruction</i> ...	\$85
– <i>Rescue Scuba Certification</i> .....	\$50
PHYE 9B <i>Boating: Beginning Dinghy</i> .....	\$45
PHYE 9C <i>Boating: Intermed Sailing: Dinghy</i> ...	\$45
PHYE 9D <i>Boating: Adv Sailing: Dinghy</i> .....	\$45
PHYE 9J <i>Boating: Basic &amp; Intermed Rowing</i> ..	\$40
PHYE 9K <i>Boating: Ocean Kayaking</i> .....	\$40
PHYE 9S <i>Boating: Intermed Sailing: Keelboat</i> ..	\$50
PHYE 9T <i>Boating: Adv Sailing: Keelboat</i> .....	\$50
PHYE 15N <i>Court Sports: Tennis</i> .....	\$8
PHYE 20A <i>Dance: Ballet</i> .....	\$15
PHYE 20C <i>Dance: Jazz</i> .....	\$10
PHYE 20D <i>Dance: Modern</i> .....	\$15
PHYE 25A <i>Fencing: Épée</i> .....	\$10
PHYE 25B <i>Fencing: Foil</i> .....	\$10
PHYE 25C <i>Fencing: Sabre</i> .....	\$10

### Physics

PHYS 160 <i>Practical Electronics</i> .....	\$40
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### Theater Arts

THEA 12 <i>Production Management</i> .....	\$10
THEA 14 <i>Drawing</i> .....	\$20
THEA 17 <i>Costume Construction</i> .....	\$25

THEA 18 <i>Drafting for Theatrical Production</i> ...\$25	
THEA 18C <i>Drafting: Computer Aided</i> .....	\$20
THEA 19 <i>Design Studio: Lighting Studio A</i> .....	\$20
THEA 30 <i>Intro: Mod. Dance Theory, Technique</i> ...	\$21
THEA 31C <i>Dance Studio I</i> .....	\$21
THEA 32 <i>Introduction to Ballet</i> .....	\$21
THEA 33 <i>Advanced Intro Modern Dance</i> .....	\$21
THEA 36 <i>Introduction to Dance Composition</i> ..	\$21
THEA 37 <i>African Dance</i> .....	\$21
THEA 80Y <i>The Broadway Musical</i> .....	\$21
THEA 107 <i>Design Studio: Masks/Makeup</i> .....	\$25
THEA 110 <i>Advanced Stage Technology</i> .....	\$20
THEA 114 <i>Design Studio: Sound</i> .....	\$20
THEA 115A <i>Design Studio: Scenic Design</i> .....	\$15
THEA 116A <i>History of Clothing/Costume</i> .....	\$25
THEA 117 <i>Design Studio: Costume</i> .....	\$25
THEA 118 <i>Design Studio: Scene Painting</i> .....	\$25
THEA 119 <i>Design Studio: Lighting Studio B</i> ...\$25	
THEA 129 <i>Advanced Ballet</i> .....	\$21
THEA 130 <i>Intermediate Modern Dance Theory and Technique</i> .....	\$21
THEA 131 <i>Advanced Modern Dance Theory and Technique</i> .....	\$21
THEA 131C <i>Dance Studio II</i> .....	\$21
THEA 132 <i>Modern Dance Studio</i> .....	\$21
THEA 135 <i>Dance Improvisation and Theory</i> ....	\$21
THEA 136 <i>Intermediate Ballet</i> .....	\$21
THEA 136C <i>Dance Studio III</i> .....	\$21
THEA 137 <i>Studies in Performance (Dance)</i> .....	\$21
THEA 138 <i>Movement Research in New Arts Praxis</i> .....	\$21
THEA 139 <i>Random: With a Purpose</i> .....	\$21
THEA 158 <i>Chautauqua Workshop</i> .....	\$5
THEA 161V <i>The Broadway Musical</i> .....	\$21

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# REGISTRATION PAYMENT INFORMATION

## Billing Statements

You can view your account activity on the MyUCSC Port by selecting Financial Information, then Account and Billing. At the end of each month, an invoice (also referred to as statement of account) for unpaid charges is viewable on the portal and a copy is mailed. Fall charges will be on the invoice produced at the end of August.

If you do not receive a Statement of Account by mail, you are still responsible for meeting payment deadlines. You can print your monthly statements from the MyUCSC portal where you can also view your account summary and check for activity (payments, charges, and adjustments) after the bill print date. If you have questions about your fees, call the Office of the Registrar at (831) 459-4412; or e-mail [registrar@ucsc.edu](mailto:registrar@ucsc.edu).

Questions about other charges or about making the payment are answered by Student Business Services at (831) 459-2107 or [oarinfo@ucsc.edu](mailto:oarininfo@ucsc.edu).

## Statement of Account Mailing Address

Statements are mailed to the mailing address on file unless you provide a billing address. Late fees will not be waived due to an incorrect or outdated address.

You may establish a separate billing address or update your local mailing address online at the MyUCSC portal. For more information regarding addresses and changing your address, see Address Changes, page 26.

## Payment of Fees

**Deadline to pay registration fees is Wednesday, September 17, for undergraduates and Friday, October 3, for graduate students. A \$50 late registration fee is assessed if payment is not received by the cashier by 4:00 P.M. on the due date. Postmarks will not be used to validate on-time payment.**

See the Financial Aid section on the following page if:

- you applied for financial aid, but have not been notified of your eligibility; or
- you received your financial aid Offer Letter, but financial aid credits do not appear on your account summary on the MyUCSC portal.

Graduate students will be assessed the \$50 late fee if fees are not received by October 3.

See Withdrawal During a Quarter, page 21, for information about refunds for registration fees.

## Returned Checks

If your registration check is returned by the bank, you will be subject to a \$25 returned check fee for the first offense and \$35 for each subsequent returned check and, if applicable, a \$50 late registration fee. A hold is placed on enrollment if you

do not clear the check. Personal checks will not be accepted from students who chronically have checks returned by the bank.

## Collection costs

Student charges are due upon demand. Late charges are assessed monthly on delinquent accounts.

Delinquent accounts are subject to being assigned for collection and, subsequently, to credit-reporting agencies. In the event it becomes necessary to enforce payment through collection for the university, the additional cost of collection will be applied to the account balance.

## Late Registration and Enrollment

Undergraduate students who pay fees and enroll after September 29 are assessed both the \$50 late registration fee and the \$50 late enrollment fee. October 15 is the last day to register and enroll.

## Deferred Payment Plan (DPP)

The Deferred Payment Plan (DPP) is an alternative method of paying registration fees. DPP allows your fees—excluding the Undergraduate Health Insurance Fee—to the extent not covered by scholarships, loans, or other financial aid to be paid in monthly installments. Students can apply on a quarterly basis for the three-month plan or for a yearly nine-month plan (for fall, winter, and spring quarters). A nonrefundable application fee of \$25 for the three-month plan and \$60 for the nine-month plan is required. Any student in good financial and academic standing may apply for DPP by submitting a Deferred Payment Plan Application to Student Business Services. Students receiving financial aid sufficient to pay registration fees in full are not eligible for this plan. You will be denied the use of DPP if you have unpaid prior debts or if you have a history of payment difficulty. For more information about DPP, see the web site at <http://sbs.ucsc.edu/>; contact Student Business Services, 459-2107; or e-mail [oarinfo@ucsc.edu](mailto:oarininfo@ucsc.edu).

## Nonresident Students

If you are classified a nonresident for tuition purposes, and you believe that you will be eligible for resident status for fall quarter 2008, petition for

change of residence status at the Office of the Registrar. Petitions must be filed before fall quarter begins. For more information, see [reg.ucsc.edu](http://reg.ucsc.edu) or contact the campus residence deputy at 459-2754.

## Health Insurance

The University of California requires that all students be covered by health insurance and UCSC offers plans specifically designed to meet the needs of students. The Undergraduate Student Health Insurance Plan (USHIP) and the Graduate Student Health Insurance Plan (GSHIP) are affordable plans featuring excellent year-round, worldwide coverage with low deductibles and prepaid access to Student Health Center care for illness or injury.

Students are automatically enrolled in the plans and billed in three quarterly installments that will appear on the University billing statement. The USHIP plan includes medical coverage only, while the GSHIP plan includes medical, dental, and vision coverage. For 2007-08 the USHIP premium was \$348 per quarter for undergraduate students, and the GSHIP premium is \$789 per quarter. Increases are expected for the 2008-09 academic year, but had not been determined at the time of publication of the fall Schedule of Classes.

Students can choose to waive the insurance by submitting an online waiver and submitting proof of comparable private insurance by the established deadline. Online waivers are available on the Student Health Center web site: [www2.ucsc.edu/healthcenter](http://www2.ucsc.edu/healthcenter). Approved waivers are valid for the quarter submitted and the remainder of the academic year. A new waiver must be submitted each academic year. Students who waive the university-sponsored student health insurance plan may purchase CruzCare, which provides prepaid access to basic Student Health Center Care for illness or injury. CruzCare is \$56 per quarter for 2008-09.

For information on how to submit an online waiver, visit the Student Health Insurance Office online at [www2.ucsc.edu/healthcenter](http://www2.ucsc.edu/healthcenter), call (831) 459-2389, or e-mail [insure@ucsc.edu](mailto:insure@ucsc.edu).

## Part-Time Study for Undergraduates

If you are unable to maintain a full-time program of study because of employment responsibilities, family obligations, or health problems, you may be eligible for a 50 percent reduction in the educational

### 2008-09 Registration Fees

Registration fees for the 2008-09 academic year had not been determined at the time of publication of the fall Schedule of Classes. For updated information, refer to [reg.ucsc.edu/fees/fees.html](http://reg.ucsc.edu/fees/fees.html), or follow the Fees link from the MyUCSC Portal page. Fees, tuition, and other charges are subject to change through action by the UC Regents.

See Courses With Fees, page 17, for information about course fees.

## REGISTRATION INFORMATION

fee and in the nonresident tuition fee (if applicable). To qualify for reduced fees, you must be approved for the Part-Time Program and be enrolled in 10 quarter credits or fewer. If you exceed 10 credits in a quarter, you must pay full fees. The last day to apply for the Part-Time Program for fall quarter 2008 is October 15.

For information regarding the Part-Time Program, check [reg.ucsc.edu/students/part-time.html](http://reg.ucsc.edu/students/part-time.html), or call the Office of the Registrar at (831) 459-4412 before the deadline listed above.

### Financial Aid

Read the sections below which apply to your circumstances:

#### You have not received your financial aid disbursement.

The first thing to check is your enrollment. Financial Aid will not disburse until you are enrolled in six or more units. Next, check the MyUCSC portal, [my.ucsc.edu](http://my.ucsc.edu), for financial aid awards. From the menu in the upper left-hand corner, follow the links: **Financial Aid**, then **My Financial Aid**. Click on **Aid Year "2008."** If the Award Summary Page is displayed, click on **Accept/Decline Award** at the bottom of the page and follow the steps to accept or decline your financial aid. Financial aid will not disburse until you have successfully completed the accept/decline awards process.

If there are no financial awards posted, check your "To Do List" at MyUCSC portal, [my.ucsc.edu](http://my.ucsc.edu). From the menu in the upper left hand corner, follow the links: **Holds and To Do Lists**, then **To Do List**. Click on the item listed to determine what is being requested. You may download requested forms using the Financial Aid Forms link.

#### Your financial aid has been disbursed and you have a balance owed on your account.

If your charges exceed the amount of aid you were awarded, you must use your own resources to pay any balance owed by the deadline to avoid a late fee. Please reference the Payment of Fees section (page 20) for the deadline to pay registration fees.

**If your aid exceeds the charges on your account, this is the amount we owe you.** If you have authorized electronic funds transfer (EFT), the funds will be disbursed directly to your personal bank account on the first day of the quarter; otherwise, a check will be mailed to your mailing address on the first day of the quarter.

**If you still have questions, you may contact the Financial Aid Office at (831) 459-2963 between 8 A.M. and 5 P.M. The Financial Aid Office is located at 205 Hahn Student Services and is open weekdays from 8 A.M. to 5 P.M.**

### Electronic Funds Transfer for Financial Aid Refunds

Student Business Services (SBS) will use EFT/Direct Deposit to deposit financial aid refunds into your personal bank account. EFT assures that you receive financial aid in the most efficient and direct manner. Sign up for Direct Deposit on the Student Portal under Financial Information. See the instructions on page 19.

### Withdrawal During a Quarter

You may find it necessary to withdraw from UCSC during a quarter. File a Petition for Withdrawal/Leave of Absence at your college office. The effective date for determining a refund of fees is the date you notify the college of the withdrawal. It is presumed that no university services are provided to you after withdrawal from the university with the exception of leave of absence benefits. (Also, see page 23 for information regarding withdrawing from a class.) Graduate students should contact the Division of Graduate Studies.

### Withdrawal and Financial Aid Recipients

A financial aid adviser will receive and process your withdrawal petition. Depending on the withdrawal date, you may be billed for some or all of the aid you received. If you plan to return to UCSC in a subsequent academic year, remember to meet the March 2 and June 1 deadlines each year in order to be considered for all forms of aid available. Students who submit requested documents after June 1 will be packaged on

a funds-available basis when all documents have been received. This means that the most desirable funds, such as University Grant and Federal Work-Study, may no longer be available after June 1. Go to the Financial Aid Office for more information.

### Withdrawal and Deferred Payment Plan

If you contracted for the Deferred Payment Plan (DPP), and you withdraw before completing all your installments, you may still owe registration fees as determined by your date of withdrawal. After filing your withdrawal petition, call the Office of Student Business Services at (831) 459-2107 for more information.

### Refund of Fees

If you withdraw from UCSC after paying your registration fees, the withdrawal may cause an overpayment to your account. Refunds are issued at least three weeks after the payment was received by the UCSC Cashier. For students who have authorized EFT, the refund is issued in the form of an electronic funds transfer; otherwise, it is mailed to your mailing address on file.

A full refund of the registration fees is granted to a student entering the U.S. armed forces or called to active duty during the quarter. For UCSC policy on students interrupting studies because of military service, contact Veteran Services at (831) 459-2754.

### Leave of Absence

Any undergraduate student who has completed at least one quarter at UCSC and is withdrawing may request a leave of absence by completing an application available

### Financial Implication of Withdrawal

Your registration fee assessment will be adjusted as determined by the effective date of the withdrawal. If the effective date is on or before the first day of instruction (see the Academic and Administrative Calendar, pages 6–7), your fees will be adjusted as follows.

- *New students:* all fees reversed except the nonrefundable \$100 statement of intent to register fee.
- *Continuing and re-entering students:* all fees reversed except a service charge of \$10.

If the effective date is on or after the first day of instruction, fees will be adjusted according to the following schedule, which refers to the elapsed calendar days beginning with the first day of instruction:

first day of instruction	100%	of assessed fees reversed
2–7 calendar days	90%	of assessed fees reversed
8–18 calendar days	50%	of assessed fees reversed
19–35 calendar days	25%	of assessed fees reversed
36 calendar days and over	0%	of assessed fees reversed

*Note: this refund schedule is subject to change.*

For new students, the nonrefundable \$100 statement of intent to register fee is withheld from the university registration fee, and the schedule above is applied to the balance of fees assessed. *Note:* There is a different schedule for entering frosh receiving federal financial aid who withdraw during their first quarter. For more information, refer to information in The Navigator at <http://reg.ucsc.edu/navigator/chapter6.html>.

## REGISTRATION INFORMATION

at his or her college office. A leave of absence is defined as a planned interruption in your education and may be granted for up to six quarters. The intent of this service is to make it possible for you to suspend your academic work and facilitate your return to UCSC.

Leave of absence status permits you to use many campus services normally reserved for registered students. The \$60 leave of absence application fee entitles you to use services available at the offices of the Career Center, Off-Campus Housing, Family Student Housing, and some computer labs, as well as to obtain discounts on transportation and other benefits. Students on leave of absence must contact the Information Technology Services Help Desk to avoid account closure. The application fee is nonrefundable and nontransferable.

For information about retaining your university computer account while on leave, phone Information Technology Services at (831) 459-HELP; or e-mail Information Technology Services at [help@ucsc.edu](mailto:help@ucsc.edu).

### Readmission

Students who take a break from UCSC but are not on leave of absence must apply for readmission. You are encouraged to file your application for readmission as soon as you know you are returning but no later than the date in the Academic and Administrative Calendar, pages 6–7. The registration fee payment procedure for readmitted students is the same as for continuing students. Readmitted students are expected to meet the enrollment and fee payment deadlines.

## Deferred Payment Plan Application

The Deferred Payment Plan (DPP) allows your registration fees, to the extent not covered by financial aid, to be paid in monthly installments. To apply for DPP, complete and return this application with the appropriate nonreturnable application fee (see below) to the Office of Student Business Services, 1156 High St., 203 Hahn Student Services, Santa Cruz, CA 95064. The application, fee, and the first installment are due before the quarter begins. DPP applies to registration fees only; health insurance is not included in DPP. Please contact the on-campus Housing Office at (831) 459-2394 to arrange a housing payment plan. Make checks payable to UC Regents.

Nine-month plan (fall, winter, spring quarters)—\$60 Application Fee (available fall quarter only)

Three-month plan (one quarter)—\$25 Application Fee

Student Name \_\_\_\_\_ Student E-mail Address \_\_\_\_\_

Student ID Number\* \_\_\_\_\_ Local Phone \_\_\_\_\_

Street Address \_\_\_\_\_ City, State, Zip \_\_\_\_\_

I, the undersigned, do hereby agree to have my registration fees, as established by the Regents of the University of California and billed by the Santa Cruz campus, divided into monthly installments. I understand the application fee is nonrefundable. I agree to inform the Office of Student Business Services immediately of any address changes, and I maintain responsibility for my account.

I understand that if I do not pay by the due date as stated on my Statement of Account, I will be assessed late fees. The first DPP late fee is \$50. Subsequent DPP late fees are assessed at \$15 per billing cycle. I understand that failure to pay may result in the university withholding all services, including class enrollment, registration, and official transcripts. I understand that in the event of nonpayment, the university has the right to terminate this agreement and declare the entire balance, plus applicable late fees, due and payable.

I understand that registration fees are subject to change, which may cause an adjustment to my payment plan. I also understand that if my student status changes, I am responsible for notifying the Office of the Registrar. Such a change could also result in a change of my payment plan.

I acknowledge that I have read, understand, and agree to the terms and conditions as set forth in this Deferred Payment Plan Application and Payment Agreement.

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

\*The student number requested on this form is not your Social Security number. The only number students should use is their seven-digit student ID number, not their Social Security number. The principle use of the number shall be to verify your identity in the Academic Information System and to locate and maintain your records.

Contact the Office of Student Business Services to determine the amount of your first payment at (831) 459-2107, or e-mail [oarinfo@ucsc.edu](mailto:oarinfo@ucsc.edu).

Fax your application to (831) 459-3918.

For more information about DPP, see our web site at <http://sbs.ucsc.edu/dpp.html>.

## UCSC Undergraduate Grading Policies

	① Undergraduates Entering UCSC Fall 2001 and After	② Undergraduates Entering UCSC Fall 1997-Spring 2001
<b>Enrollment</b>	<p>① The Pass/No Pass option is available only to students in good academic standing.</p> <p>① ② The grading option may be changed up to the 15th day of instruction.</p>	<p>② When enrolling, students choose either letter grading or Pass/No Pass grading.</p>
<b>Withdrawal</b>	<p>① ② After the last day to drop a course, students may withdraw from a course whether enrolled for a letter grade or for Pass/No Pass grading. The Academic and Administrative Calendar lists deadlines for withdrawing from a course.</p>	
<b>Grades</b>	<p>① ② If enrolled in a course for a letter grade, students will receive a grade of A+, A, A-, B+, B, B-, C+, C, D, F, W (Withdraw), I (Incomplete), or IP (In Progress). If enrolled in a course for Pass/No Pass, students will receive a grade of P (Pass), NP (No Pass), W (Withdraw), I (Incomplete), or IP (In Progress).  <b>Note: beginning fall 2001, NP grades earned appear on official transcripts like all other grades.</b></p>	
<b>Evaluations</b>	<p>① ② For each course in which credit is earned, whether letter graded or Pass/No Pass, all students will receive an evaluation. Evaluations are a permanent part of the academic record. All students may request transcripts either with or without evaluations.</p>	
<b>UCSC Grade Point Average</b>	<p>① For all students, a UCSC GPA is calculated from UCSC courses, courses taken through the Education Abroad Program, and courses taken on another UC campus in an intercampus exchange program. The UCSC GPA is displayed on the official transcript. Courses taken through the Domestic Exchange Program and UC Extension are not calculated in the UC or UCSC GPA.</p>	<p>② Students who have received a letter grade in at least two-thirds of their credits attempted at UCSC have a UCSC GPA calculated and displayed on their official transcripts. Students who receive letter grades in fewer than two-thirds of their UCSC credits attempted are not eligible for a UCSC GPA. Courses taken through the Domestic Exchange Program and UC Extension are not calculated in the UC or UCSC GPA.</p>
<b>UC Grade Point Average</b>	<p>① ② All students have a UC GPA calculated from courses taken for a letter grade at UCSC, at other UC campuses, and through the Education Abroad Program. Your UC GPA must be at least 2.0 in order to graduate. Courses taken through the Domestic Exchange Program and UC Extension are not calculated in the UC or UCSC GPA.</p>	
<b>Satisfying Requirements</b>	<p>① Departments may require that some or all courses used to satisfy the major must be taken for a letter grade.</p> <p>① ② A course graded D or F cannot be used to satisfy a course prerequisite or to satisfy major or general education requirements. Credits earned with a D will not count toward satisfactory academic progress. Any course graded P is equivalent to a C or better and can be used to satisfy general education requirements and will count towards satisfactory academic progress.</p>	
<b>Incompletes</b>	<p>① ② The notation I (Incomplete) may be assigned when work for a course is of passing quality but is not complete. Prior arrangements must be made with the instructor for a grade notation of I. To remove the Incomplete, the student must file a petition and the completed course work by the deadline on the last day of the following quarter. If an I is not removed by the deadline, it will lapse to F or NP, depending on the grading option in effect. The F and the NP will appear on official transcripts, along with the removal of Incomplete notation.</p>	
<b>Repeats</b>	<p>① ② Undergraduates may repeat courses in which they earn a D, F, or No Pass. Courses in which a D or F is earned may not be repeated on a Pass/No Pass basis. Courses in which a grade of No Pass is earned may be repeated on the same basis or for a letter grade. Students may only repeat a maximum of 15 credits for courses in which a grade of D or F was received. In computing the GPA for these repeats, only the grade and corresponding grade points earned the last time the course was taken will be used. After the 15-credit maximum is reached, the GPA will be based on all grades assigned and total credits attempted. To repeat a course more than once, consult with your college adviser. Credit is not awarded more than once for the same course, but the grade assigned each time the course is repeated will be permanently recorded on the official transcript.</p>	
<b>Graduation Requirements</b>	<p>① No more than 25 percent of the UCSC credits applied toward graduation may be graded on a P/NP basis. This includes any credits completed in the Education Abroad Program or on another UC campus in an intercampus exchange program. Departments may require that some or all courses used to satisfy the major must be taken for a letter grade.</p> <p>② There is no limit on the number of credits graded Pass/No Pass which may be applied toward graduation.</p> <p>① ② Students must complete all requirements for the major with a grade of P, C (2.0), or better. All undergraduates, regardless of when they entered UCSC, must meet the minimum UC GPA requirement of 2.0 in order to receive a degree from the University of California. See the statement of catalog rights regarding graduation requirements in effect for each student.</p>	

# EVALUATING UNDERGRADUATE ACADEMIC PERFORMANCE

## Undergraduate Students

### Pass/No Pass Grading Option

Students may elect the Pass/No Pass grading option and may change their grading option in a course up to the 15th day of instruction. For the Pass/No Pass option, students receive a P for work that is performed at C or clearly passing level or better. For work that is not clearly passing, no academic credit is awarded; and students receive a NP (No Pass). **Beginning fall 2001, the grade notation NP appears on the official transcript in all cases, regardless of when a student was admitted.** For work that is passing, but incomplete, the grade notation I (Incomplete) may be issued.

**The following courses are not available for a letter grade:**

Student Directed Seminars: Courses Numbered 42  
College Eight 10  
College Ten 110, 110B  
Cowell 10, 184A, 184B, 184C  
Biology 189, 190  
Earth Sciences 190  
Economics 93, 191, 193, 193F, 198, 198F  
Environmental Studies 83, 84, 183, 184  
Film 198, 198F  
History of Art and Visual Culture 198  
Linguistics 190  
Mathematics 1, 1E  
Merrill 10, 85A, 85B, 85C  
Oakes 10  
Physical Education (all courses)  
Politics 191  
Psychology 193, 198  
Social Sciences 194B  
Stevenson 10  
Theater Arts 45  
Writing 10A-B-C, 11A-B-C, 20, 21, 22, 180, 191D

### Letter Grading Option

Before the Grade Option deadline (the 15th day of instruction), confirm your letter grade request for each course on the MyUCSC portal.

### In Progress Notations

The notation IP (In Progress) is reserved for a single course extending over two or three terms of an academic year. The grade for such a course may be awarded at the end of the course and shall then be recorded as applying to each of the terms of the course. A student satisfactorily completing only one or two terms of a course, extending over two or three terms of an academic year, will be given grades for those terms. The grade option selected in the first quarter of the multiple term sequence applies to all quarters of the sequence.

### Grade Changes

Incomplete grade notations of "I" must be changed to final grades, based upon work submitted to the

instructor, within the deadline for Incompletes. Other grade changes can be made by the instructor only on the basis of clerical or procedural error and never on the basis of reexamination or completion of additional work.

### Accessing Grades

You may access your grades for any quarter via the MyUCSC portal. Grades are usually available about one week after the end of the quarter.

### Catalog Rights

Effective for all undergraduates who entered in fall quarter 1993 or after, students may follow the degree requirements from either the UCSC General Catalog published at the time of entering UCSC or subsequent catalog(s). Students need not follow a catalog in its entirety, but may elect to follow different catalog years for their college requirements, university and general education requirements, the requirements of their major(s), and the requirements of any minor(s).

Catalog year will initially be set for the first year of enrollment at UCSC. Students may elect to follow requirements from other catalog year(s) when filing the Proposed Study Plan/Declaration of Major/Minor. All requirements for graduation outlined in the catalog(s) selected must be met before graduation. Changing catalog year(s) is done by submitting a new Proposed Study Plan/Declaration of Major/Minor.

Students transferring from other collegiate institutions may elect to meet as graduation requirements one of the following:

- those in effect at the time of transfer to UCSC;

- those subsequently established; or
- those in effect when the student entered a previous collegiate institution, provided that entry was not more than three years prior to the time of transfer to UCSC.

Students who seek readmission to UCSC after a break in attendance greater than two years (six regular quarters) must adhere to the graduation requirements in effect at the time of readmission or those subsequently established.

Students who entered prior to 1993 should see an adviser. Their catalog year(s) for graduation, whether the year they entered UCSC or subsequent year(s), will be decided at the discretion of their major department and/or their college.

## Undergraduates Who Entered UCSC

### Prior to Fall 1997

Guidelines for undergraduates who entered UCSC between fall 1997 and spring 2001 also apply to undergraduates who entered UCSC prior to fall 1997, with the following exception: those who entered prior to fall 1997 may elect letter grades, but a grade-point average will not be displayed on the official transcript. All undergraduates, regardless of when they entered UCSC, must meet the UC minimum GPA requirement in order to receive a degree from the University of California: 2.0 calculated from all UCSC letter-graded courses and from all letter-graded courses taken at other UC campuses and through the Education Abroad Program.

## Grade Point Average

The grade point average is determined by dividing the number of grade points earned by the number of credits attempted for a letter grade. The number of grade points earned for a course equals the number of grade points assigned multiplied by the number of course credits. For example, suppose a student takes three 5-credit courses and receives grades of A-, B-, and C+.

Grade	Grade Points*	Course Credits	Total Grade Points*
A-	3.70	5	18.50
B-	2.70	5	13.50
C+	2.30	5	11.50
Total		15	43.50

$$43.50 \text{ divided by } 15 = 2.90 \text{ GPA}$$

Grade points are assigned to each letter grade as shown below.  
Grades shown in bold (W, I, IP, P, NP) are not included in the UCSC GPA.

A+ = 4.00	B+ = 3.30	C+ = 2.30	F = 0.00	<b>IP = 0.00</b>
A = 4.00	B = 3.00	C = 2.00	<b>W = 0.00</b>	<b>P = 0.00</b>
A- = 3.70	B- = 2.70	D = 1.00	<b>I = 0.00</b>	<b>NP = 0.00</b>

\*UCSC calculates grade point average to the second decimal place only.

# EVALUATING GRADUATE ACADEMIC PERFORMANCE

## Graduate Students

### Satisfactory/Unsatisfactory Grading and the Letter Grade Option

Beginning fall 1997, all graduate students in graduate or undergraduate courses will be graded Satisfactory (S) (equivalent to a B or better), Unsatisfactory (U), or Incomplete (I). Graduate students also have the option of receiving a letter grade of A, B, C, D, or F in most courses. The grades of A or B shall be awarded for satisfactory work. Grades of C or D will not satisfy any course requirement for a graduate degree at UCSC.

In order to receive a letter grade, you must enter your letter grade request no later than the 15th day of instruction for **each class** in **each quarter**.

### Evaluations

Graduate students receive an evaluation for all courses except those with no credit value.

### Incompletes

An Incomplete (I) grade notation may be assigned when the graduate student's work is of passing quality but is incomplete. See the *Graduate Student Handbook* for complete instructions about arrangements to receive and to remove an Incomplete grade notation.

### In Progress

The notation IP (In Progress) is restricted to certain sequential courses that extend over two or three quarters of an academic year. The grade option you select in the first quarter of the multiple term sequence applies to all quarters of the sequence. You receive the same notation for each course upon completion of the two- or three-quarter sequence, and the final grade is applied to all quarters.

### Repeating Courses

Graduate students may repeat a course in which they earn a grade of C, D, F, or U. Degree credit for a repeated course will be granted only once, and the most recently earned grade will be used to determine whether a degree requirement has been met.

## UCSC Graduate Grading Policies

	Satisfactory/Unsatisfactory Grading	If You Elect a Letter Grade
<b>Enrollment</b>	You must request Satisfactory/Unsatisfactory grading by the published deadline.	You must request a letter grade by the published deadline.
<b>Available Grades</b>	You will be graded S (equivalent to a B or better), U (unsatisfactory), or I (Incomplete).	You will be graded A, B, C, D, F, or I (Incomplete).
<b>Degree Requirements</b>	If you receive a U, the course cannot be used to satisfy a degree requirement.	If you receive a C, D, or F, the course cannot be used to satisfy a degree requirement.
<b>Incompletes</b>	An I (Incomplete) may be assigned if your work is of passing quality, but is incomplete. You must petition to remove the I and submit the completed course work to the instructor by the end of the third quarter following that in which the grade notation I was received unless the instructor or department specifies an earlier date. If you fail to file the petition and complete the work, or if the instructor does not submit an S, the Incomplete will be changed to a U.	An I (Incomplete) may be assigned if your work is of passing quality, but is incomplete. You must petition to remove the I and submit the completed course work to the instructor by the end of the third quarter following that in which the grade notation I was received unless the instructor or department specifies an earlier date. If you fail to file the petition and complete the work, or if the instructor does not submit an A, B, C, or D, the Incomplete will be changed to an F.
<b>Repeats</b>	You may repeat courses graded Unsatisfactory.	You may repeat courses graded C, D, or F. Credits are counted once, and the most recently earned grade determines whether a degree requirement has been met.

### Either way

- Graduate students enrolled in physical education courses will be graded Pass/No Record.
- Graduate students enrolling in undergraduate courses will be graded as outlined above.

## GENERAL INFORMATION

This section includes an alphabetical listing of information important to all students. Descriptions of academic policies and procedures are found in *The Navigator*, at [reg.ucsc.edu/navigator](http://reg.ucsc.edu/navigator), and in the *Graduate Student Handbook*, at [graddiv.ucsc.edu/regulations/handbook.php](http://graddiv.ucsc.edu/regulations/handbook.php).

### Academic Integrity

All members of the UCSC academic community have an explicit responsibility to present as their original work only that which is truly their own. Cheating, plagiarism, and other forms of academic dishonesty are contrary to the ideals and purposes of a university and will not be tolerated. Note that plagiarism includes the deliberate misrepresentation of someone else's words and ideas as your own, as well as paraphrasing without footnoting the source. Students and faculty are jointly responsible for assuring that the integrity of scholarship is valued and preserved.

To view the full text of the policy on academic dishonesty, see [www.ucsc.edu/academics/academic\\_integrity](http://www.ucsc.edu/academics/academic_integrity).

### Due Process

Students charged with academic dishonesty have the right to due process through established policies and regulations concerning student conduct and discipline. Copies of these policies and regulations can be found in the *UCSC Student Policies and Regulations Handbook* ([www2.ucsc.edu/judicial/](http://www2.ucsc.edu/judicial/)).

### Academic Standing and Minimum Progress

Full-time undergraduate students at UCSC are expected to enroll in and earn a grade of C or better (or P) in an average of 15 credits per quarter, completing the 180 credits needed for graduation in four years. Extensions of enrollment beyond the equivalent of 12 full-time quarters require the approval of your college.

Your college will regularly check to ensure that you are making (at least) **minimum progress** toward completing your degree and, at the end of each term, will determine whether you are in **good academic standing**. If you do not pass enough credits with a grade of C or better (or P), you may be placed on **academic probation**. If your academic standing or progress falls below minimally acceptable levels, you may be **disqualified** from further enrollment in the university.

### Address Changes

It is important for UCSC offices to have access to accurate address information for all UCSC students. UCSC relies on the addresses on the MyUCSC portal to send you official information. You must update your address each time you change your residence, or you will miss important documents and deadlines. Read through the definitions below to understand the different types of addresses maintained by UCSC before making changes.

**E-mailing (year round):** Your UCSC e-mail address is often the primary address used by several administrative offices, including the Financial Aid Office and the Office of the Registrar to communicate with you. Once your UCSC account is assigned to you, ensure that you activate it as soon as possible.

You may forward your UCSC e-mail to another e-mail address if you prefer. It is crucial that you check your UCSC e-mail account often in order to ensure that you meet important deadlines and are aware of important campus announcements.

**Mailing (year round):** This should always be your current address. It is your responsibility to keep this address up to date and prevent important campus mail from being misdirected.

- Billing statements are mailed to the mailing address unless you establish a third-party billing address. Mailings to this address may include credit balance refunds and general mailings from campus units. The Financial Aid Office uses this address for some mailings during the academic year.
- During fall, winter, and spring quarters, you may use a college address as your mailing address. Summer: After spring quarter ends and before fall quarter begins, a college address is not a valid mailing address. For this reason, it is important to keep your mailing address updated during the summer, so you do not miss important communications and deadlines.

**Permanent (year round):** This address may be the same as your mailing address or the address of a relative, but it may not be your college address. Your diploma will be sent to this address. The Financial Aid Office uses this address during the summer if mail is returned and they have been unable to contact you using other addresses.

**Billing (year round):** If you would like your Statement of Account mailed to a third party, such as your parents, grandparents, or guardian, you must establish a billing address. Billing addresses are used only for statements going to someone other than you.

**Foreign:** Required for students on F and J (non-immigrant) visas.

**Residence:** Required for students on F and J (non-immigrant) visas.

**Request for Nonrelease of Public Information:** University policy, consistent with the Family Educational Rights and Privacy Act of 1974 as amended, permits disclosure of certain categories of public information.

At UCSC the following information is considered to be a matter of public information and will be disclosed unless the student has requested that it be withheld:

- student's name;
- mailing address;
- e-mail address;
- local telephone number;
- college and major field of study;
- dates of attendance;

- class level;
- degrees and honors received;
- number of credits currently enrolled;
- name, weight, and height of participants on intercollegiate athletic teams.

To have this information withheld from release, go to the UCSC Directory Restrictions link on the MyUCSC portal. Be sure that you understand the implications of requesting a Nonrelease of Information. Every single item listed above will be withheld. The Office of the Registrar cannot verify your student status for a potential employer, publicize any honors you receive, or include your name and degree earned in the commencement program unless you remove the Nonrelease of Information. Once a Request for Nonrelease of Public Information is filed, it remains in effect until you rescind it via the MyUCSC portal.

If you have any questions about the implications of the Nonrelease of Public Information, contact the Office of the Registrar, 190 Hahn Student Services, (831) 459-4412.

### Administrative Cancellation

Your student status may be cancelled by the campus administration at any time for the reasons listed below. If you

- are barred from enrollment for one or more quarters for academic deficiencies;
- are disqualified for academic deficiencies;
- receive disciplinary action;
- fail to respond to official university notices;
- fail to settle financial obligations; or
- fail to enroll in classes.

Cancellation for any of the first three reasons will be noted on your official academic record.

Administrative cancellation means that your enrollments are dropped, financial aid is cancelled, and you are ineligible to use campus services reserved for students. The registration fee refund, if applicable, is determined by the effective date of the administrative cancellation.

### Advance Course Information

Advance Course Information (ACI) is designed to complement advance enrollment. It supplies more course information online than is available through the *UCSC General Catalog*.

Also available via ACI are book lists for the current quarter. These are arranged by department and are provided by the Bay Tree Bookstore. To get to the ACI web page directly, go to [reg.ucsc.edu/soc/aci](http://reg.ucsc.edu/soc/aci).

Faculty participation in ACI is voluntary; therefore, information is not available for all classes. If you have any questions, comments, or ideas, you can e-mail ACI at [aci@ucsc.edu](mailto:aci@ucsc.edu).

### Advising

Advisers are available in the colleges to assist undergraduates with general planning issues, such as

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choosing appropriate course loads, maintaining good academic progress, and integrating majors and minors in an overall academic plan. Advising for specific major and minor programs is offered at the departments. Students may also consult with faculty, career counselors, educational opportunity advisers, psychological counselors, and disability resource specialists, among others.

### Apply to Graduate

For information on applying for graduation and other graduation-related questions, see [reg.ucsc.edu/graduation\\_announcerequest.htm](http://reg.ucsc.edu/graduation_announcerequest.htm).

### Auditing of Classes

You may audit (sit in on) a regular course with the permission of the instructor in charge. The instructor may allow you to attend course meetings but only if adequate facilities are available after all students who wish to enroll officially have done so. The instructor is not obligated to devote time to your work. Auditors ordinarily do not write papers or take exams. Since you are not enrolled in the class, there is no record kept; and you receive no grade notation, evaluation, or credit. You are not eligible to audit classes if you've been barred or disqualified for academic or disciplinary reasons, have withdrawn, or are on leave of absence.

### Cancelled Courses

Occasionally, it is necessary for a sponsoring agency to cancel a course after students have advance enrolled. Whenever possible, the course-sponsoring agency will notify enrolled students about the cancellation. Check the *Schedule of Classes* ([reg.ucsc.edu/soc](http://reg.ucsc.edu/soc)) on the web for updates. View your enrollments online at MyUCSC for cancellations or changes in meeting times, days, or location.

### Certificate of Completion of Degree

For a \$5 fee, you may request a Certificate of Completion of Degree, which includes your name, the date your degree will be awarded/was awarded, major, college, and honors, if any. For more information, see [reg.ucsc.edu/graduation.htm](http://reg.ucsc.edu/graduation.htm).

### Certification of Student Status for Outside Agencies

The Office of the Registrar is the only agency on campus authorized to certify student status and academic standing for outside agencies such as student loan institutions, insurance companies, child care programs, banks, and employers.

If you need a certification of student status to defer a federally insured student loan, your request will be forwarded to the National Student Loan Clearinghouse for processing. Most lenders contact this agency directly for confirmation of student status.

If you are registered and enrolled, a certification for the current academic year may be requested from the Registrar's Office at 190 Hahn. Valid photo identification is required. Certifications requested after noon will be ready for pickup after 1 P.M. the following day.

### Computing Facilities and Services

It is important for you to be knowledgeable of the computing facilities and services that are offered to you. Here are the key services:

- You are expected to communicate via e-mail using a UC Santa Cruz Identity called CruzID, which is your e-mail address and account as well as electronic login and password to many services, such as the network, computing labs, portal, and other services. Your CruzID is assigned when you enroll for classes before you come to campus in the fall quarter. There is no cost for this service.
- UC Santa Cruz has a wireless network called CruzNet, with coverage in most areas of campus. If you have a laptop computer with a wireless network card, you'll be able to sit down with a group of classmates in a serene setting among the redwoods, at a cafe or library to do your homework, and still have network access. Because of the wireless access, we highly recommend that you purchase a laptop or notebook computer. There is no cost for this service.
- The campus offers a high-speed residential data network called ResNet to all students living in university residential areas. The service cost is included in the housing fees. This service includes technical support (by phone or room visits when necessary) provided by Information Technology Services staff.
- If you don't own a computer, or would like to work on homework assignments that require specialized software, there are 12 Instructional Computing labs across the campus. Each lab is open to all students and there is no cost for this service.

### Information Technology Services (ITS)

ITS provides you with computing, network, telecommunication, media services, and instructional technology services to the campus. Central computing facilities provide universal services such as electronic mail, web, and file services. See [its.ucsc.edu](http://its.ucsc.edu). ITS operates the campus network, which interconnects personal computers, workstations, workgroup LANs, instructional computing labs, central computing facilities, and computer-equipped classrooms with each other, on-campus resources, and the Internet. In addition, wireless service called CruzNet is available to mobile users across campus.

See [http://its.ucsc.edu/service\\_catalog/cruznet](http://its.ucsc.edu/service_catalog/cruznet) for more information. On-campus network resources include academic, library, and administrative computing, and database and information servers.

### Purchasing a Computer?

If you are planning on buying a new computer, UC Santa Cruz recommends purchasing a laptop with both wired and wireless network capability.

An excellent source for purchasing computers and computer products is the campus Bay Tree Bookstore, [slugstore.ucsc.edu](http://slugstore.ucsc.edu), (831) 459-2082. Through university-negotiated contracts, the bookstore offers a full line of Apple and Dell computers, as well as software and peripheral equipment. Because of your student status, pricing is almost always below outside market prices. And the bookstore works closely with ITS to be certain the equipment you buy will meet campus specifications, both wired and wireless. As an added convenience, Apple products can be ordered in advance through the bookstore, and be ready for pick-up when you arrive on campus.

Technology vendors frequently use the "Back-To-School" time frame for additional special pricing, so you might want to check with the Bay Tree Bookstore in July and August as you begin thinking about shopping for a computer. The Bay Tree Bookstore staff can help you make the right choices for your campus computing needs.

### Computer Standards

The campus supports both PC and MAC environments. For general campus support standards, please visit [its.ucsc.edu/service\\_catalog/standards](http://its.ucsc.edu/service_catalog/standards). For standards specific to residential living on campus, please visit [resnet.ucsc.edu/CSD/computer.php](http://resnet.ucsc.edu/CSD/computer.php).

### Your UC Santa Cruz Identity (CruzID) E-Mail Account is Pre-assigned

Your CruzID is your e-mail account. Faculty and other campus representatives will send e-mail about classes, important reminders, and information about student services to this account. For example, your UCSC address ([youraccount@ucsc.edu](mailto:youraccount@ucsc.edu)) shows up on e-mail lists that faculty use for classes. In addition to e-mail, this same UCSC account gives you access to the campus Instructional Computing Labs, and the central Unix timeshare systems. Every UC Santa Cruz student is assigned a CruzID account upon enrollment. You can activate your pre-assigned CruzID through the MyUCSC Portal at [my.ucsc.edu](http://my.ucsc.edu). For more information about your CruzID, please visit: <http://cruzid.ucsc.edu>.

You are expected to monitor your e-mail messages from faculty, staff, and other students. All student e-mail accounts are given a 1GB quota limit.

The campus provides CruzMail, a web-based e-mail client, as well as anti-virus software to keep your machine virus-free. You may access your email account by using the 12 computer labs located at most of the

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colleges and a number of academic buildings. For more information about CruzMail, the campus e-mail service, please visit: [http://its.ucsc.edu/service\\_catalog/cruzmail/](http://its.ucsc.edu/service_catalog/cruzmail/).

### Computing Facilities and Policies

Since the Internet is a dynamic environment, please be aware of the following information:

- Students using UC Santa Cruz computing facilities and services must comply with the University of California state and federal policies and laws referenced at [security.ucsc.edu/policies.shtml](http://security.ucsc.edu/policies.shtml). While that web page lists many of the university policies, it is in no way meant as an exhaustive and complete list. New regulations and policies and procedures are constantly evolving. Laws, policies, or other regulations on aspects not specific to networks or computing may also apply, e.g., student conduct, personnel policy or contract, sexual harassment laws, chain letter laws, or other regulations.
- Web pages at UC Santa Cruz (and beyond) are expanding and changing rapidly. Please send questions regarding any information found on the web to a contact person listed on each web site.
- Please send questions or concerns about electronic abuses or harassment via e-mail to [abuse@ucsc.edu](mailto:abuse@ucsc.edu).

### Network and Phones for Students Living on Campus

ITS provides in-room Internet access (called ResNet) and a university-owned and operated telephone system. Network services are available to undergraduate and graduate students living in university housing (except for the Camper Park). For assistance with network connections, you may contact ResNet at [resnet@ucsc.edu](mailto:resnet@ucsc.edu) or call (831) 459-4NET. Please check the web site at [resnet.ucsc.edu](http://resnet.ucsc.edu) for more information.

Local telephone service is provided in every student room (except for the Camper Park and Family Student Housing). There is one telephone line for each single and double room, and two telephone lines in each room with three or more residents. You must provide your own telephone and use a calling card to place long distance calls. Each telephone line also includes a voicemail box. Because the campus voicemail system picks up all unanswered calls, we recommend not using an answering machine in your residence. Call (831) 459-3111 or contact [telephone@ucsc.edu](mailto:telephone@ucsc.edu) for more information on telephone services.

### Computing Labs for Drop-in Use and Academic Classes

ITS manages 12 computer labs throughout the campus. These labs have more than 360 computers available for you to use, including PCs, MACs, and Sun workstations. Wireless access is available in most labs.

The computing labs are used like classrooms; they can be reserved by faculty or teaching assistants for instruction. When not reserved for instruction, the labs are available to you on a walk-in basis. Even if they are not teaching in the labs, many faculty request academic software to be installed in the labs so that you may complete homework assignments.

Faculty or teaching assistants can request ITS staff to conduct training sessions as part of an academic course. Contact Robin Ove, Faculty Instructional Technology Center manager, [fitc@ucsc.edu](mailto:fitc@ucsc.edu), for more information.

More extensive lab information, including hardware and software specifications and hours of operation, is available at [ic.ucsc.edu](http://ic.ucsc.edu).

### Academic Course Materials on the Web

The WebCT course management system is a tool to create sophisticated web-based course materials to supplement, but not replace, classroom instruction. WebCT uses a web browser as the interface for the course. Faculty using WebCT can incorporate a wide variety of tools in their course site such as a course calendar, student conferencing system, electronic mail, group projects with student-created web pages, and quizzes. Outside of class time, you can use WebCT to view course materials, participate in web-based class discussions, collaborate on student group projects, and take quizzes. Faculty can use WebCT to see what materials students have viewed before they arrive in class. When faculty administer pre-class quizzes on WebCT, they can see what concepts students understand before class and then tailor the lecture accordingly. You must have established your UCSC Identity to enroll in WebCT courses. See more information about WebCT and other UCSC course web sites at [ic.ucsc.edu/services/learning\\_management\\_system/index.php](http://ic.ucsc.edu/services/learning_management_system/index.php) and [ic.ucsc.edu/services/websites\\_media\\_course\\_materials/course\\_websites.php](http://ic.ucsc.edu/services/websites_media_course_materials/course_websites.php).

### Disability Accommodations for Computing

If you have a disability and require adaptive or assistive technology to use lab computers, library facilities, or other campus services, please contact the Disability Resource Center (DRC) right away so that they can coordinate services for you. Instructional Computing labs have common adaptive technologies—such as enlarged type for students with low vision and Dvorak keyboards for students with repetitive strain injuries. If you need accommodations, please call the DRC at (831) 459-2089 (voice), or (831) 459-4806 (TTY).

## Need Computing Help?

### Information Technology Services (ITS) Support Center

You may find the answer to your question online at [its.ucsc.edu/faq/](http://its.ucsc.edu/faq/).

If you need additional help with computer accounts,

network access, or general computer questions, please contact the ITS Support Center. The Support Center is located on campus at Kerr Hall, room 54.

The ITS Support Center provides help to faculty, staff and students with computer-related support requests. Help is available the following ways:

- 1) Online: <http://itrequest.ucsc.edu>
- 2) Call: Ext. 9-HELP (4357)
- 3) E-mail: [help@ucsc.edu](mailto:help@ucsc.edu)
- 4) Walk-in support: Kerr Hall Room 54, M-F 8a.m.-5p.m.

### Job Opportunities

Instructional Computing (a unit within ITS) has about 100 student staff positions, including lab consultants, who staff labs and assist students; student technicians, who maintain lab hardware and software; and web developers, who work on project teams to produce academic course sites. Please see [ic.ucsc.edu/aboutus/jobs.php](http://ic.ucsc.edu/aboutus/jobs.php) for more information about the computer lab positions.

The Information Resource Center hires student consultants through the UCSC Career Center. For more information, see [www2.ucsc.edu/careers/](http://www2.ucsc.edu/careers/).

### Related Information

- Information Technology Services: [its.ucsc.edu](http://its.ucsc.edu)
- Computing Frequently Asked Questions: [its.ucsc.edu/faq/](http://its.ucsc.edu/faq/)
- Bay Tree Bookstore (computer purchase): [slugstore.ucsc.edu](http://slugstore.ucsc.edu)
- CruzMail campus e-mail: [cruzmail.ucsc.edu](http://cruzmail.ucsc.edu)
- CruzNet wireless network: [cruznet.ucsc.edu](http://cruznet.ucsc.edu)
- ResNet: [resnet.ucsc.edu](http://resnet.ucsc.edu)
- Activate your CruzID Account (free for students who have enrolled): MyUCSC Portal at [my.ucsc.edu](http://my.ucsc.edu)
- Instructional Computing Labs for Students (also see link to apply for student lab jobs): [ic.ucsc.edu](http://ic.ucsc.edu)

## Cross-Enrollment

The cross-enrollment program permits UCSC students who meet certain eligibility criteria to enroll in one undergraduate course, on a space-available basis each quarter or semester, at a California community college or California state university. The host campus may charge an administrative fee each quarter, and students must reapply each quarter they wish to cross-enroll at another campus. The fee is \$18 per unit.

*Note:* not all community colleges participate in the cross-enrollment program; contact the institution where you wish to enroll for information.

## Lost and Found

The first place to go for lost and found items is the nearest college or department office. Items that are not claimed from these offices are taken to the University Police Office, located in the H Barn near the main entrance to the campus, (831) 459-2231.

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### MyUCSC Portal Password

Your password is required each time you use the MyUCSC portal. Your password is assigned to you when you receive your student identification number.

We strongly suggest that you change your password and set up a password hint the first time you access the MyUCSC portal. You may select a minimum of eight characters (one character must be a numeral) as your new password. You may also change your password any time thereafter.

It is extremely important that your password remain confidential. Do not give it to anyone. If you forget your password or believe the privacy of your password has been compromised, e-mail [help@ucsc.edu](mailto:help@ucsc.edu) to reset your password.

### Name Change

Name Change petitions are available at the Office of the Registrar. A student who is currently enrolled or has applied to graduate and is requesting an official name change on his or her academic records must complete this form and present it, in person, at the Office of the Registrar. You must submit documentation showing legal change of name (court order) or use of requested name on official documentation (e.g., drivers license, social security card, passport, marriage certificate, etc.). You may also correct your name at the Office of the Registrar if, for example, it is misspelled or the punctuation is incorrect. Be prepared to show proof of the correctly spelled name.

When you file a Name Change petition, you may also order and pay for a new student ID card at the Bay Tree Bookstore Building.

### Nonrelease of Public Information

The following information is considered public information and may be disclosed: name, college or local address, e-mail address, local telephone number, college and major field of study, dates of attendance, class level, enrollment status, intercollegiate athlete's height and weight, and degrees and honors received.

To have this information withheld from release, select the Personal Information link on the MyUCSC portal, then click on Directory Restrictions. Be sure that you understand the implications of filing this request. Every single item listed above will be withheld.

Once a Request for Nonrelease of Public Information is filed, it remains in effect—even after you are no longer attending UCSC—until you request to rescind it via the MyUCSC portal, or by letter.

### Student Identification Card

A plastic card bearing your picture is issued the first quarter of enrollment, generally during college orientation.

Each quarter the college (department for graduate students) issues a validation sticker to be affixed to

your ID card. The sticker is issued once you have completed registration and is available beginning the first day of the quarter. The card with the current quarter sticker is proof that you are registered. The college or department will not issue a sticker if your quarterly fees are unpaid. Go to the Office of the Registrar to complete your registration, and a sticker will be provided.

### Transcript Information

A transcript is an official copy of a student's academic history at UCSC. Transcript requests are not processed if you have outstanding financial obligations to the university. If you received a message after ordering your transcripts that indicates you have a hold on your transcripts, please contact Student Business Services via e-mail at [oarinfo@ucsc.edu](mailto:oarinfo@ucsc.edu). Two versions of your official UCSC student records are available from the Office of the Registrar: with or without evaluations. See [reg.ucsc.edu/students/ordering.htm](http://reg.ucsc.edu/students/ordering.htm) for information about ordering transcripts and for transcript fees.

#### Transcripts with evaluations include:

Courses graded P, A, B, C, D, F, W, or I. NP will appear for courses taken fall 2001 and after. The grades of A and B may be modified by a plus (+) or minus (-). The grade C may be modified by a plus (but not by a minus). Incompletes lapse at the end of the subsequent quarter; in letter-graded courses, the I lapses to an F, in Pass/No Pass grading, to a No Pass.

Degrees awarded, honors, number of transfer credits, evaluations of courses, and an evaluation of comprehensive examination or senior thesis also appear.

#### Transcripts without evaluations include:

Courses graded P, A, B, C, D, F, W, or I. NP will appear for courses taken fall 2001 and after. The grades of A and B may be modified by a plus (+) or minus (-). The grade C may be modified by a plus (but not by a minus). Incompletes lapse at the end of the subsequent quarter; in letter-graded courses, the I lapses to an F, in Pass/No Pass grading, to a No Pass.

Degrees awarded, honors, and number of transfer credits also appear.

#### Requesting a Transcript

The fastest way to order a transcript is via the web with a credit or debit card. Credit/debit card orders must be requested through Credentials Inc., a vendor that provides this service through an agreement with UC Santa Cruz. To use the online ordering system, go to [reg.ucsc.edu](http://reg.ucsc.edu) and click on Ordering UCSC Transcripts. Under Ordering by Credit Card, select the Credentials Inc. icon. This is a secure, encrypted site. There are additional service charges that you will incur if you use this service.

#### Transcript Availability

Transcripts are available as follows:

- approximately 10 days after the end of the quarter to include grades, or
- approximately six weeks after the end of the quarter to include evaluations or a degree if applicable.

#### Processing/Mailing Time

Allow one to two weeks for processing from the time your request is received by our office. During the peak period (November through February), processing may take longer.

You may request and pay an additional fee for your transcript to be mailed via next-day service. This service provides fast delivery and a receipt that the transcript was received by the recipient. This service expedites transit time, not processing time. Federal Express is used for all destinations, except post office boxes, in which case the transcripts are sent by U.S. Postal Express. The additional charge for Federal Express within the U.S. is \$20. The additional charge for Federal Express outside the U.S. is \$30 per transcript (with or without evaluations).

For more information on transcripts, go to [reg.ucsc.edu/students/transcripts.htm](http://reg.ucsc.edu/students/transcripts.htm).

#### UCSC Extension Transcripts

Transcripts for UCSC Extension courses must be ordered from UCSC Extension, 1101 Pacific Ave, Suite 200, Santa Cruz, CA 95060, (831) 427-6600, or via the web at [www.ucsc-extension.edu](http://www.ucsc-extension.edu).

### Veterans and Veterans' Dependents

Veteran Services, located in the Registrar's Office, 160 Hahn Student Services, serves as a liaison between the Department of Veterans Affairs (DVA) and students who, as veterans, veterans' dependents, or reservists, receive education benefits. The staff also assists with the Cal Vet program, which offers fee waivers to California residents who are dependents of veterans who have died or are disabled due to a service-connected disability.

As a veteran or veteran's dependent, you should contact Veteran Services as soon as you receive notification of admission to UCSC to ensure timely processing of your benefits claim.

#### Satisfactory Progress Toward a Degree Objective

Veterans and veterans' dependents who receive educational benefits are expected to make satisfactory progress towards completion of a degree objective. Until you have decided on a major (degree objective) and have a study plan on file, benefits will be paid only for general education courses and adviser-recommended remedial courses. If you remain on academic probation beyond two quarters without improvement, your benefits shall be subject to suspension.

Dropping a course or requesting a W grade notation will affect your payments; you are responsible for promptly reporting the drop or W to Veteran Services.

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If, due to mitigating circumstances, you drop a course or withdraw from the university, the reduction or termination of payments will begin on the effective date of the drop. If mitigating circumstances cannot be shown, the DVA will consider the effective date to be the first day of the quarter in which the drop or withdrawal occurs, and you will be charged for an overpayment from the first day of the quarter. A mitigating circumstance is defined as a circumstance beyond the student's control that hinders the student from pursuing a program of studies. Please note that you cannot be paid for auditing a course.

### Transfer Credit

The amount of transfer credit which satisfies UCSC graduation requirements (including major requirements) is reported to the Department of Veteran's Affairs as "credit for prior training." The DVA will pay only for the maximum number of quarters required to complete 180 credits. Call 459-2754 if you have questions.

### Academic and Support Services for Veterans

Services for Transfer and Re-Entry Students (STARS) provides a broad range of academic and personal support services to military veterans during their transition to the university and while they are enrolled as UCSC students. The main STARS office is located in room 216A of the Academic Resources Center. Contact staff at 459-2552, or visit the Services for Transfer and Re-Entry Students web site, [stars.ucsc.edu](http://stars.ucsc.edu).

### Taxpayer Relief Act of 1997

The Taxpayer Relief Act of 1997 includes a number of educational tax benefits that may have an impact on students and their families. The act includes the following sections that involve the university reporting information on students to the Internal Revenue Service.

- Hope Scholarship Tax Credit (effective 1/98): a nonrefundable credit equal to a maximum of \$1500 in out-of-pocket qualified tuition and fee expenses paid by or on behalf of a student for two tax years during which the student is enrolled at least half time in the first or second year of post-secondary education leading to a recognized degree or certificate.
- Lifetime Learning Credit (effective 7/98): a nonrefundable credit equal to 20 percent of the \$5,000 of qualified out-of-pocket tuition and fee expenses paid by or on behalf of a student enrolled in post-secondary course work at the undergraduate or graduate level leading to a recognized degree or certificate or to improved job skills.
- Student Loan Interest Deduction (effective 1/98): a deduction from income of up to \$1000 in qualified education loan interest due and paid during the first 60 months of repayment.

To find out if you qualify for benefits under these or other provisions of the Taxpayer Relief Act, please

contact a tax consultant; or call the Internal Revenue Service. Beginning January 1999, information reported to the IRS was available at [www.1098-T.com](http://www.1098-T.com) or 1-877-467-3821, toll free. The University of California is not authorized to respond to tax questions.

### Crime Awareness and Campus Security Act

In compliance with the federal Crime Awareness and Campus Security Act, UCSC publishes information on campus security and crime statistics. A publication containing this information is published annually and made available to all students and UCSC employees. The publication is posted on the web: [www2.ucsc.edu/police](http://www2.ucsc.edu/police).

### Federal Student Right-to-Know Act

The following graduation-rate information is listed in compliance with the 1990 Title I: Federal Right-to-Know Act, Section 103. Based on recent data, 48.6 percent of students who entered UCSC as freshmen in 1999 graduated after four years, and 65.0 percent of those who entered in 1998 graduated after five years. In recent years, students who entered as freshmen took an average of four and one-half years to graduate, and students transferring to UCSC as juniors averaged two and one-half years. These graduation rates are well above the national averages.

In accordance with the Education Amendments of 1976, Section 493A, more detailed information regarding retention is available from the Office of Planning and Budget, University of California, Santa Cruz, 1156 High Street, Santa Cruz, CA 95064. More information is also available on the web at [planning.ucsc.edu/irps](http://planning.ucsc.edu/irps).

### Drug-Free Schools and Communities Act

In compliance with the federal Drug-Free Schools and Communities Act, UCSC annually notifies students, faculty, and staff of policies, procedures, and potential consequences related to unlawful possession, use, or distribution of drugs and alcohol on campus. This notice is distributed to students through the colleges and the Graduate Studies Division and to faculty and staff through campus mail. The university also conducts a biannual review of programs related to drugs and alcohol to determine effectiveness, implement changes, and ensure that disciplinary sanctions are consistently enforced. This review is conducted by the Office of the Vice Chancellor for Student Affairs, 459-4446.

### Smoke-Free Policy

To protect the rights of the nonsmoking campus community to breathe smoke-free air, UCSC has adopted a Policy for a Smoke-Free Environment. This policy prohibits smoking in all indoor areas of all nonresidential public buildings on campus and in common areas such as lobbies, lounges, waiting areas, and rest rooms of residential buildings. Smoking is

also prohibited in the outside areas beside all building doorways, windows, and ventilation air intakes; this includes patios underneath building windows or other areas where smoke could enter openings to buildings. For more detailed information about the smoking policy, see the web: [www2.ucsc.edu/smoking](http://www2.ucsc.edu/smoking). Tobacco products will not be sold on campus either through vending machines or campus establishments. UCSC supports and assists efforts to stop smoking by providing literature and referrals to community cessation programs. Students may obtain information about the programs from the Cowell Student Health Center, (831) 459-2211.

### Nondiscrimination Statement

The University of California, in accordance with applicable federal and state law and university policy, does not discriminate on the basis of race, color, national origin, religion, sex, disability, age, medical condition (cancer-related), ancestry, marital status, citizenship, sexual orientation, or status as a Vietnam-era veteran or special disabled veteran. The university also prohibits sexual harassment. This nondiscrimination policy covers admissions, access, and treatment in university programs and activities.

Inquiries regarding the university's student-related nondiscrimination policies may be directed to the Office of Student Judicial Affairs, (831) 459-4446.

Inquiries regarding UCSC's Sex Offense Policy and Procedures for Reports of Sexual Assault(s) and Sexual Harassment and/or violations of Title IX may be directed to Rita E. Walker, Title IX coordinator/sexual harassment officer, (831) 459-2462, or by e-mail at [rew@ucsc.edu](mailto:rew@ucsc.edu).

Inquiries regarding the university's affirmative action, equal employment opportunity, and nondiscrimination policies for employment may be directed to the Equal Employment Opportunity/Affirmative Action Office, (831) 459-2686, or by e-mail at [cbene@ucsc.edu](mailto:cbene@ucsc.edu).

Inquiries regarding Section 504 or the Americans with Disabilities Act may be addressed to the director, Disability Resource Center, (831) 459-2089 (voice); (831) 459-4806 (TTY); or by e-mail at [drc@ucsc.edu](mailto:drc@ucsc.edu).

Alternate formats of this document—such as large-print, audiotape, braille, or electronic file—can be provided. Please call (831) 459-4446 for referral.

### Sexual Harassment and the Title IX/Sexual Harassment Office

For a copy of the UCSC Policy on Sexual Assault, the UC Policy on Sexual Harassment and Procedures For Reports of Sexual Assaults and Sexual Harassment go to [www2.ucsc.edu/title9-sh/](http://www2.ucsc.edu/title9-sh/).

UC Santa Cruz takes the issues of sexual assault and sexual harassment seriously and is committed to ensuring that our campus community is free of violence, discrimination, and harassment.

The goal of the Title IX Office is to ensure that students, staff, faculty, and persons participating in

## SELECTED UNIVERSITY POLICIES & FEDERAL LAWS

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university sponsored programs and events can learn, work, and/or enjoy the benefits and opportunities offered by the campus free from any uninvited, unwelcome, unsolicited, and unwanted conduct directed at them because of their sex. The Title IX/SHO is authorized by the chancellor to conduct the administrative investigation of all reports of sexual assault filed by students, staff, and faculty. Additionally, the Title IX/SHO receives and resolves reports and complaints of sexual harassment.

Any person who is the target of sex discrimination including sexual assault and/or sexual harassment should consult with the Title IX/sexual harassment officer at (831) 459-2462, or by e-mail at [rew@ucsc.edu](mailto:rew@ucsc.edu), to receive information and advice about your options and/or to file a report or complaint.

## ADVERTISEMENT

# got problem?

*“Thank you for your mediation effort the other day. I think it was really helpful and I look forward to a turn for the better.”*

- ◆ grade?
- ◆ roommate?
- ◆ co-worker?
- ◆ policy?
- ◆ procedure?

*“Thank you for your quick action on my note regarding the dorm move-out day. I was able to extend my stay which was very helpful to us.”*

## Maybe we can help!

The Campus Ombuds assists all members of the campus community with **informal** resolution of any UCSC-related complaint or problem, considering all sides of the question in an **impartial** way. An **independent** and **confidential** resource for students, faculty, staff, parents & alumni.

[www2.ucsc.edu/ombuds/](http://www2.ucsc.edu/ombuds/)

Contact Laurie McCann, Campus Ombuds ♦ [lmccann@ucsc.edu](mailto:lmccann@ucsc.edu) ♦ 419 Physical Sciences Bldg ♦ 831.459.2073

## Overview of General Education Requirements

Designed to expose students to diverse subject areas, the general education requirements also stress a variety of approaches to acquiring knowledge. A description of the general education requirements and a complete list of current courses that satisfy general education requirements are included in this handbook.

Most current students follow the general education requirements at UCSC, which fall into nine areas and are described below.

Each area has a general education code associated with it, and only those courses carrying that code satisfy the requirement. The codes appear in the course descriptions in the General Catalog online and in the “Gen Eds” column in each *Schedule of Classes*. Some courses satisfy more than one requirement, so the total number of required courses may be as few as 10 or as many as 15. Courses from the Arts Division of 1, 2, or 3 credits may be combined to satisfy the arts general education requirement if they have the appropriate code and total at least 5 credits.

Transfer credits may satisfy some of the general education requirements. The Admissions Office will evaluate your transfer course work and determine which general education requirements you have satisfied. This information is available online through the MyUCSC Portal.

Students who have not decided on a major should take general education courses that will allow them to begin exploring possible majors. Students pursuing certain majors, particularly in the sciences, may need to schedule general education courses around major prerequisites. The writing-intensive course (W code), arts course (A code), and U.S. ethnic minorities/non-Western society course (E code) can be satisfied with many upper- as well as lower-division courses.

If you have consulted with your academic adviser and feel you have an unusually strong case for an exception to a general education requirement, you may obtain a Substitution or Waiver of General Education Requirement form at your college. Don't wait until the quarter you expect to graduate. These petitions are carefully screened by the Academic Senate Committee on Educational Policy; specific and rigorous criteria are used. If the petition is approved, your academic record will be changed to reflect the exception. If you have taken a course through UNM, UNH, EAP, or UCDC, or as an ICV, and you think it will satisfy a general education requirement other than the T or W, you may initiate review of the course by completing a Review of Transfer Credit form at the Admissions Office.

### Enrolling in General Education Courses

The section of the class you enroll in will satisfy a general education requirement only if the appropriate general education code(s) appears in the “Gen Eds” column of the *Schedule of Classes*. Different sections of the same course may have different codes.

## Quick Reference to General Education Requirements

General education requirements were devised and are reviewed by the Santa Cruz Division of the Academic Senate through the Committee on Educational Policy. There are nine categories of general education requirements. Specific information regarding how general education requirements fit into bachelor's degree requirements can be found in the *UCSC General Catalog*.

IH  
IN  
IS

**Introductions to Disciplines:** These courses inform students of a discipline's scope or methodology, prepare students effectively for advanced classes, or both. Students are advised about a discipline's suitability as a major or are prepared for advanced course work in the field. Most of these courses are required of majors. Most do not require prerequisites. The three categories are Introduction to Humanities and Arts (IH code), Introduction to Natural Sciences (IN code), and Introduction to Social Sciences (IS code).

T

**Topical requirements (T code):** The topical requirement is intended to show students how disciplines outside their own affect public life, how different disciplines approach a common topic, and the richness in the areas of study that lie outside or between academic disciplines. Topical courses address a topic of broad intellectual or social relevance—instead of a discipline—and study it from a broad or interdisciplinary perspective. They can provide a place for discussion of values and assumptions at an introductory level not usually found in introductory courses. They are not designed to introduce the discipline to non-majors.

C

**Composition requirements (C1 and C2 or C code):** C1 and C2 are fulfilled by your college core course and Writing 2, *Rhetoric and Inquiry*. C is fulfilled by Writing 1, *Composition and Rhetoric*. Students must complete the Entry Level Writing Requirement to satisfy the composition requirements.

W

**Writing-intensive requirement (W code):** These courses often require more writing than other classes, but they also stress explicit attention to the craft of writing in the subject matter of the course or discipline. Papers are assigned throughout the quarter and editorial comment is provided by the instructor. Students must complete the Entry Level Writing Requirement (formerly Subject A) and satisfy the Composition requirement before enrolling in a course which satisfies the writing-intensive requirement.

Q

**Quantitative requirement (Q code):** This requirement involves acquisition of technical skill in mathematics or practice in the ability to apply that mathematical skill in specific contexts, or both. A quantitative course must involve the use of advanced algebra, statistics, or calculus. These courses provide instruction in quantitative reasoning rather than merely evaluating students' mathematical ability. Courses in logic or computers are not considered mathematical.

A

**Arts requirement (A code):** This requirement was established in recognition of the differences between the humanities and the arts, and of the necessity of both in liberal arts education. One 5-credit course or the equivalent is required in the performance, theory, or history of the arts.

E

**U.S. Ethnic Minorities/Non-Western Society requirement (E code):** This requirement is intended to increase student and faculty knowledge of non-Western cultures (in the U.S. and elsewhere); to improve cross-cultural awareness, skills, and sensitivity; and to explore relationships between ethnicity and other topics of liberal arts curriculum.

# GENERAL EDUCATION REQUIREMENTS

## Courses That Fulfill General Education Requirements

Refer to the course listings beginning on page 40 to identify general education courses offered in fall quarter.

### Introductions to Disciplines, Humanities, and Arts (IH code)—two courses from different departments required (10 credits)

Only one IH requirement may be satisfied with a course (equivalent to 5 credits) from the Arts Division (art, film and digital media, history of art and visual culture, music, theater arts); only one language course may be used to satisfy an IH requirement; and only one literature course may be used to satisfy an IH requirement. *Note:* Transfer courses designated IH from English departments are considered to be literature courses for general education purposes.

**American Studies** 10  
**Chinese** 4, 5, 6, 50, 107, 108  
**Cowell** 118B  
**Feminist Studies** 1  
**Film and Digital Media** 20A, 20B, 20C  
**French** 4, 5, 6  
**German** 4, 5, 6  
**Hebrew** 4, 5  
**Hindi** 4, 5, 6  
**History** 1, 2A, 2B, 4, 5A, 5B, 10A, 10B, 11A, 11B, 13, 14, 30, 40, 40A, 41, 43, 44, 62A, 62B, 65A, 65B, 66, 70A, 70B, 70C  
**History of Art and Visual Culture** 10D, 10E, 10F, 10G  
**Italian** 4, 5, 6  
**Japanese** 4, 5, 6, 50  
**Linguistics** 50, 52, 53, 55  
**Literature** 1, 61F, 61H, 61M, 61P, 61R  
**Spanish Literature** 60  
**Music** 11A, 11B, 11C, 11D  
**Philosophy** 9, 11, 22, 24, 26, 28  
**Portuguese** 60B, 65A, 65B  
**Russian** 4, 5, 6  
**Spanish** 4, 5, 5M, 6, 56  
**Spanish for Spanish Speakers** 61, 62, 63  
**Theater Arts** 10, 19, 20, 30, 32, 33, 36, 40, 61, 122, 136

### Introductions to Disciplines, Natural Sciences and engineering (IN code)—two courses from different departments required (10 credits)

Transfer courses designated IN from anatomy, botany, physiology, and zoology departments are considered to be biology courses.

**Anthropology** 1  
**Applied Mathematics and Statistics** 5, 7, 11A, 11B  
**Astronomy and Astrophysics** 2, 3, 4, 5, 12, 13, 14, 15, 16, 18  
**Biomolecular Engineering** 5  
**Biology: MCD** 20A, 70  
**Chemistry and Biochemistry** 1A, 1B, 1C  
**Computer Engineering** 3, 8, 12  
**Computer Science** 2, 5P, 10, 12A, 12B, 13H, 60G, 60N  
**Earth Sciences** 1, 3, 5, 6, 7, 10, 20, 65, 119  
**Economics** 11A, 11B

**Environmental Studies** 23, 24  
**Mathematics** 11A, 11B, 19A, 19B, 20A, 20B  
**Ocean Sciences** 1  
**Physics** 1, 2, 5A, 5B, 5C, 6A, 6B, 6C, 7A, 7B

### Introduction to Disciplines, Social Sciences (IS code)—Two courses from different departments required (10 credits)

**Anthropology** 2, 3, 4  
**Biology: MCD** 89, 89W  
**Community Studies** 10, 100B, 100E, 100F, 100J, 100K, 100M, 100P, 100S, 100T, 100V, 100X  
**Economics** 1, 2  
**Education** 92A, 92B  
**Environmental Studies** 25  
**Latin American and Latino Studies** 1, 126A, 126B  
**Legal Studies** 10  
**Politics** 1, 3, 4, 15, 17, 20, 25, 43, 70, 72, 73, 75  
**Psychology** 1, 65  
**Sociology** 1, 10, 15, 20

### Topical Courses (T code)—Three courses required (15 credits)

Students entering UCSC with fewer than 45 transferable credits must take three topical courses in residence at UCSC. UCSC Summer Session courses can be used to satisfy topical requirements.

Choose one course from each academic area: natural sciences (2), social sciences (3), and humanities and arts (4). Courses labeled 5, 6, and 7 satisfy topical requirements in two different academic areas; students can apply this kind of topical course to either academic area indicated. The three topical course requirements must be satisfied with three different courses. In the Schedule of Classes, courses that carry a T general education code are listed as follows:

- 2—Natural Sciences Area
- 3—Social Sciences Area
- 4—Humanities and Arts Area
- 5—Humanities and Arts *or* Social Sciences Area
- 6—Natural Sciences *or* Humanities and Arts Area
- 7—Natural Sciences *or* Social Sciences Area

**T2—Natural Sciences**  
**Astronomy and Astrophysics** 80A, 80D  
**Biology: E&E** 80N, 80P  
**Biology: MCD:** 80A, 80E, 80H, 80J,  
**Biomolecular Engineering** 80H  
**Chemistry and Biochemistry** 80H  
**Computer Engineering** 80H, 80N, 80U  
**Computer Science** 80B, 80C, 80G, 80K, 80V  
**Earth Sciences** 80A, 80B, 80C, 80D, 80G  
**Electrical Engineering** 80J  
**Environmental Toxicology** 80E  
**Linguistics** 80G  
**Ocean Sciences** 80A, 80B  
**Physics** 80A

**T3—Social Sciences**  
**Anthropology** 80B, 80G, 80H, 80I, 80J, 80K, 80N, 80P  
**College Eight** 80A, 80B  
**College Nine** 80A, 80B  
**College Ten** 80A, 80B

**Community Studies** 80A, 80B, 80H, 80L  
**Crown College** 80G  
**Economics** 80A, 80G, 80H  
**Latin American and Latino Studies** 80A, 80B, 80C, 80D, 80F, 80H, 80I, 80Q, 80S, 80T  
**Merrill College** 80A, 80B, 80X  
**Psychology** 80A, 80B  
**Sociology** 80E, 80Z

**T4—Humanities and Arts**  
**Art** 80A, 80C, 80D, 80V  
**Cowell College** 80A, 80B  
**Crown College** 80A, 80B  
**Feminist Studies** 80S  
**Hebrew** 80  
**History** 80H, 80K, 80N, 80W, 80Y  
**History of Consciousness** 80A, 80B, 80E, 80L, 80M, 80U  
**Languages** 80D, 80F  
**Latin American and Latino Studies** 80E  
**Linguistics** 80B, 80V  
**Literature** 80A, 80L, 80M, 80N, 80X  
**Music** 80A, 80F, 80G, 80H, 80I, 80J, 80K, 80M, 80O, 80P, 80Q, 80S, 80V, 80X  
**Oakes College** 80H  
**Philosophy** 80E, 80F  
**Porter College** 80A, 80B, 80E, 80W  
**Stevenson College** 80H  
**Theater Arts** 80A, 80B, 80E, 80G, 80H, 80L, 80M, 80N, 80O, 80P, 80S, 80U, 80V, 80W, 80X, 80Z

**T5—Humanities and Arts or Social Sciences**  
**American Studies** 80E, 80F, 80G  
**Crown College** 80J, 80K  
**Economics** 80J  
**Feminist Studies** 80C, 80F, 80K, 80P, 80Y  
**Film and Digital Media** 80A, 80S  
**History** 80M  
**History of Art and Visual Culture** 80A, 80D, 80E, 80G, 80K, 80M, 80N, 80S, 80T, 80X  
**History of Consciousness** 80J, 80O, 80Q  
**Kresge College** 80A, 80B, 80T  
**Latin American and Latino Studies** 80X  
**Linguistics** 80C, 80D  
**Merrill College** 80C, 80Z  
**Oakes College** 80A, 80B  
**Philosophy** 80L, 80M  
**Porter College** 80L  
**Stevenson College** 80A, 80B, 80T, 81A, 81B

**T6—Natural Sciences or Humanities and Arts**  
**Art** 80F  
**Biology: MCD** 80R  
**Biomolecular Engineering** 80G  
**Computer Engineering** 80E  
**Music** 80C, 80L, 80R  
**Philosophy** 80G, 80R, 80S  
**Physics** 80D  
**Porter College** 80K

**T7—Natural Sciences or Social Sciences**  
**Computer Engineering** 80A  
**Computer Science** 80J, 80S  
**Crown College** 80C, 80F  
**Electrical Engineering** 80S, 80T

*Continued on next page*

# GENERAL EDUCATION REQUIREMENTS

**Environmental Studies** 80A, 80B  
**Information Systems Management** 80C  
**Physics** 80C  
**Sociology** 80V

**Composition Courses (C code)—One course required for students entering prior to fall 2005 (5 credits)**  
**Writing 1**

**Composition Courses (C1 and C2 code)—One course each required for students entering fall 2005 (5 credits)**

## C1

**College Eight** 80A  
**College Nine** 80A  
**College Ten** 80A  
**Cowell College** 80A  
**Crown College** 80A  
**Kresge College** 80A  
**Merrill College** 80A, 80X  
**Oakes College** 80A  
**Porter College** 80A  
**Stevenson College** 80A

## C2

**College Eight** 80B  
**College Nine** 80B  
**College Ten** 80B  
**Cowell College** 80B  
**Crown College** 80B  
**Kresge College** 80B  
**Merrill College** 80B, 80Z  
**Oakes College** 80B  
**Porter College** 80B  
**Stevenson College** 80B, 81B  
**Writing 2**

**Writing-Intensive Courses (W code)—One course required (5 credits)**

**American Studies** 100, 105A, 114B, 125H  
**Anthropology** 150, 152, 170, 172, 190C, 194A, 194B, 194C, 194F, 194I, 194K, 194M, 194N, 194P, 194S, 194T, 194U, 194V, 194X, 194Y, 196A-B (A: 3 credits; B: 3 credits)  
**Art** 150C  
**Astronomy and Astrophysics** 80D  
**Biology: E&E** 141L, 145L, 150L, 161L, 183L, 188  
**Biology: MCD** 89W, 158L  
**Chemistry and Biochemistry** 122  
**Community Studies** 160, 194  
**Computer Engineering** 185  
**Crown College** 123  
**Earth Sciences** 195  
**Economics** 106, 107, 108, 109, 128, 142, 165, 183, 184, 188, 195  
**Education** 180A  
**Environmental Studies** 100L (concurrent enrollment in 100 required), 104A, 109B, 156, 157, 172  
**Environmental Toxicology** 151  
**Feminist Studies** 117, 155, 194I, 195  
**Film and Digital Media** 120, 150, 196B

**History** 190A, 190B, 190C, 190D, 190E, 190F, 190H, 190I, 190K, 190L, 190N, 190O, 190P, 190S, 190U, 190V, 190W, 194B, 194E, 194G, 194H, 194J, 194M, 194N, 194S, 194U, 194Y, 195B, 196A, 196C, 196E, 196G, 196I, 196J, 196K, 196N, 196O, 196P, 196R, 196S, 196U, 196W, 196Y  
**History of Art and Visual Culture** 100A, 187A  
**Information Systems Management** 158  
**Kresge College** 80T  
**Latin American and Latino Studies** 194P, 195A  
**Legal Studies** 128, 183, 196  
**Linguistics** 101, 113, 114, 197  
**Literature** 1, 101  
**Oakes College** 112  
**Philosophy** 120, 127, 190L, 190M, 190S, 190Y  
**Physics** 195B  
**Porter College** 80W  
**Psychology** 110, 119, 119C, 119G, 119H, 119M, 125  
**Sociology** 103B, 134, 195C  
**Stevenson College** 80T  
**Theater Arts** 157, 159  
**Writing** 64, 101, 102, 103, 104, 110A, 161, 163, 165, 166A, 166B, 166D, 167

**Quantitative Courses (Q code)—One course required (5 credits)**

**Applied Mathematics and Statistics** 3, 5, 7, 11A, 11B, 113, 131, 162  
**Astronomy and Astrophysics** 2, 3, 4, 5, 12, 13, 14, 15, 16, 18  
**Chemistry and Biochemistry** 1A, 1B, 1C  
**Computer Engineering** 8, 12, 16  
**Computer Science** 80B  
**Earth Sciences** 80B, 80C, 111  
**Economics** 11A, 11B, 113  
**Electrical Engineering** 80T  
**Mathematics** 3, 4, 11A, 11B, 19A, 19B, 20A, 20B, 21, 110  
**Ocean Sciences** 1  
**Philosophy** 9  
**Physics** 1, 2, 5A, 6A, 7A, 80A, 80D  
**Psychology** 2, 181  
**Sociology** 103A, 103B

**Arts Courses (A code)—One course or equivalent required (5 credits)**

Courses carrying fewer than 5 credits may be combined for credit toward satisfaction of the A requirement if they total at least 5 credits.  
**Anthropology** 81A, 81B, 81C  
**Art** 10G, 10H, 20, 21, 22, 23, 24A, 24B, 26, 27, 28, 30, 39, 40, 60, 70A, 70B, 70C, 80A, 80C, 80D, 80F, 80V, 102, 107, 109, 112, 113, 114, 118, 119, 123, 126, 135, 136, 141, 161  
**Community Studies** 125, 127, 147  
**Cowell College** 70A, 70B, 70C  
**Feminist Studies** 80S, 123  
**Film and Digital Media** 20A, 20B, 20C, 20P, 80A, 80S, 132A, 132B, 136A, 136B, 151, 160, 165A, 170A, 170B, 176, 185D

**History of Art and Visual Culture** 10D, 10E, 10F, 10G, 80A, 80D, 80E, 80G, 80K, 80M, 80N, 80S, 80T, 80X, 100A, 100E, 104A, 105E, 105P, 105R, 106A, 106B, 106D, 106I, 106X, 107A, 107B, 110A, 110B, 114, 115, 120A, 121A, 121C, 121D, 124, 126, 131, 136, 137, 138, 140, 140A, 142, 149A, 150A, 151A, 153, 154A, 154B, 154C, 154D, 155, 156, 159B, 159D, 160, 161, 163A, 168, 169, 172, 174B, 174C, 175, 177, 178A, 179, 180, 181, 182, 183, 185A, 185B, 185C, 187A, 189D, 189N, 189V, 189Y, 190A, 190B, 190C, 190D, 190F, 190G, 190H, 190I, 190M, 190O, 190P, 190Q, 190R, 190S, 190T, 190U, 190W, 190Y, 191B, 191C, 191D, 191F, 191H, 191P, 191S, 191X  
**Latin American and Latino Studies** 81A, 81B, 81C, 161P, 171  
**Literature/Creative Writing** 10, 52, 53, 170, 180, 183  
**Music** 1A, 2, 3, 4A, 5B, 5C, 6, 8, 9, 10, 11A, 11B, 11C, 11D, 51, 54, 75, 80A, 80C, 80F, 80G, 80H, 80I, 80J, 80K, 80L, 80M, 80O, 80P, 80Q, 80R, 80S, 80V, 80X, 102, 103, 159A, 159B, 160, 166, 180A, 180B  
**Music Sequence Courses:** 1C-1C-1C, 2-2-2, 3-3-3, 4A-4A-4A, 4B-4B-4B, 4A-4A-4B, 4A-4B-4B, 8-8-8, 9-9-9, 166-166-166  
**Philosophy** 152  
**Porter College** 14, 20A, 20C, 20D, 21A, 21C, 22, 22A, 22F, 22G, 23A, 23B, 23C, 28, 32A, 33, 33A, 34B, 35, 35A, 38B, 39, 80E, 80G, 80L, 83, 120, 121, 121C, 121D  
**Theater Arts** 10, 12, 14, 17, 18, 18C, 19, 20, 21, 22, 23, 30, 31C, 31P, 32, 33, 35, 36, 37, 40, 50, 52, 61, 80A, 80B, 80E, 80G, 80H, 80L, 80M, 80N, 80O, 80P, 80S, 80U, 80V, 80W, 80X, 80Z, 100A, 100B, 100C, 100G, 100H, 100I, 100L, 100M, 100W, 104, 105, 110, 113, 114, 115A, 115B, 116A, 116B, 117, 117A, 118, 119, 121, 122, 124, 126, 128, 129, 130, 131, 131C, 131P, 132, 135, 136, 136C, 137, 138, 139, 142, 151, 155, 157, 159, 160, 161C, 161D, 161M, 161P, 161Q, 161R, 161S, 161T, 161U, 161V, 161W, 161Y, 162, 163A, 163E, 163G, 163Y, 164, 165, 193, 193F

**U.S. Ethnic Minorities/Non-Western Society Courses (E code)—One course required (5 credits)**

**American Studies** 10, 80E, 101, 121C, 123F, 123H, 123M, 123T, 123X, 123Z, 125A, 125E, 125G, 125H, 125X, 126B, 126C, 127A, 127C, 127D, 127E, 127F, 127K, 190H  
**Anthropology** 80B, 80D, 80G, 80I, 80P, 130A, 130B, 130C, 130E, 130F, 130G, 130H, 130I, 130L, 130M, 130N  
**Community Studies** 20, 80A, 80B, 80H, 100E, 100J, 100P, 114, 132, 152  
**Computer Science** 80S  
**Economics** 120, 128  
**Education** 92C, 128, 141, 164, 175, 181  
**Feminist Studies** 80C, 80F, 80P, 80Y, 102, 110, 115, 117, 120, 123, 124, 132, 139, 145, 151A, 154, 155, 158, 194C, 194F, 194M  
**Film and Digital Media** 132C, 162A, 165B, 165D, 185E

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## GENERAL EDUCATION REQUIREMENTS

### Hebrew 106

**History** 5A, 11B, 14, 30, 40, 40A, 41, 43, 45, 74, 75, 80H, 80W, 80Y, 101A, 101B, 106A, 106B, 121A, 121B, 123B, 126, 127, 128, 130, 131, 132, 134A, 134B, 137A, 137B, 137C, 140C, 140D, 140E, 141A, 141B, 147A, 147B, 148, 150C, 155, 185A, 185B, 185D, 185E, 190A, 190B, 190C, 190D, 190E, 190L, 190N, 190O, 194G, 194H, 194N, 194U, 194Y, 196N, 196Q

**History of Art and Visual Culture** 10E, 80G, 80M, 80N, 80T, 100E, 105E, 105F, 106A, 107A, 107B, 121C, 121D, 142, 151A, 155, 156, 160, 161, 172, 182, 185A, 185B, 185C, 187A, 189D, 190B, 190C, 190O, 190U, 191C, 191F, 191P

**History of Consciousness** 118

**Languages** 80F

**Latin American and Latino Studies** 1, 10, 80A, 80B, 80C, 80D, 80E, 80F, 80H, 80I, 80Q, 80S, 80T, 80X, 100A, 100B, 101, 111, 120, 123A, 123B, 126A, 126B, 127, 129, 140, 141, 142A, 142B, 143, 144, 145, 146, 147, 148, 152, 160, 161P, 164, 166,

167, 168, 169, 170, 173, 175, 176, 178, 180, 194C, 194D, 194E, 194F, 194G, 194J, 194K, 194L,

194M, 194N, 194P, 195A

**Legal Studies** 127, 128, 135, 136

**Literature** 61R, 80L, 80X

**English-Language Literatures** 103I, 130C, 150C, 150E, 155D, 190D

**French Literature** 134

**Modern Literary Studies** 125D, 125L, 144G, 180B, 180F

**Spanish Literature** 60, 102B, 130E, 131H, 134C, 134L, 134N, 135A, 135C

**World Literature and Cultural Studies** 109, 112, 117, 118, 124, 135, 136, 190A, 190B

**Merrill College** 80A, 80B, 80X

**Music** 11B, 11D, 80A, 80F, 80I, 80K, 80P, 80Q, 80X, 180A, 180B

**Oakes College** 80A, 80B, 80H, 175

**Philosophy** 80E

**Politics** 127, 140C, 140D, 141, 146, 156

**Psychology** 110, 119B, 143, 157, 158

**Sociology** 15, 20, 133, 156, 169, 170, 174, 175, 188

**Spanish** 156A

**Stevenson College** 80H, 80T, 81A, 81B

**Theater Arts** 22, 80A, 80M, 100A, 100B, 100I, 100L, 100W, 161D, 161P, 161R, 163Y

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## Fall 2008 Course Descriptions

The following course descriptions are for fall quarter 2008. Descriptions for individual studies courses are not included in these listings. Please contact the course sponsoring agencies for additional information.

### College Eight

#### **80A. Introduction to University Discourse: Environment and Society.**

Explores rhetorical principles and conventions of university discourse, providing intensive practice in analytical writing, critical reading, and speaking. Explores relationships between society, social justice and the environment, through environmental history and contemporary environmental studies. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. (General Education Code(s): T3-Social Sciences, C1.)

#### **80B. Rhetoric and Inquiry: Environment and Society.**

Explores the intersections of investigation, interpretation, and persuasion and hones strategies for writing and research. Explores relationships between society and social justice and the environment through environmental history and contemporary environmental studies. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year

college members. (General Education Code(s): T3-Social Sciences, C2.)

#### **90. College Eight Garden Internship (1 credit).**

One-credit internship in the College Eight Garden. Offers students of College Eight an opportunity to become involved in an experimental learning project focusing on application of concepts of sustainable agriculture. Enrollment restricted to members of College Eight. Enrollment limited to 10. May be repeated for credit.

#### **170A. UC Sacramento Seminar.**

Seminar provides a systematic understanding of the public policy and political process in California and involves students in creating a research-based paper on some aspect of public policy and/or politics in California. Interview only: enrollment in UC Sacramento program is required. Enrollment restricted to sophomores, juniors, and seniors. May be repeated for credit.

#### **170B. UC Sacramento Internship.**

Provides students with a challenging opportunity to engage in experiential learning. Interview only: enrollment in UC Sacramento program is required. Enrollment restricted to sophomores, juniors, and seniors. May be repeated for credit.

#### **170C. Law and Politics in California: Fundamental Perspectives and Current Controversies.**

Investigates California's current crisis of governance—in what sense is our state's political process "broken," and how should it be "fixed?" Explores laws, legal issues, and the legal profession. Interview only: enrollment in UC Sacramento program is required. Enrollment restricted to sophomores, juniors, and seniors. (Formerly *The Political Economy of California's Political Crisis.*)

### College Nine

#### **80A. Introduction to University Discourse: International and Global Issues.**

Explores rhetorical principles and conventions of university discourse and provides intensive practice in analytical writing, critical reading, and speaking. Topics address contemporary global issues including economic globalization, human rights, international and inter-ethnic conflicts, poverty, and immigration. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. Enrollment limited to 22. (General Education Code(s): T3-Social Sciences, C1.)

### ADVERTISEMENT

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**80B. Rhetoric and Inquiry: International and Global Issues.**

Explores the intersection of investigation, interpretation, and persuasion and refines strategies for writing, research, and speaking. Topics address contemporary global issues including economic globalization, human rights, international and inter-ethnic conflicts, poverty, and immigration. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. Enrollment limited to 22. (General Education Code(s): T3-Social Sciences, C2.)

**College Ten**

**80A. Introduction to University Discourse: Social Justice and Community.**

Explores rhetorical principles and conventions of university discourse and provides intensive practice in analytical writing, critical reading, and speaking. Examines social justice issues; topics include racism, sexism, and other forms of prejudice and discrimination; poverty and welfare; civil liberties; and community involvement and citizenship. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. Enrollment limited to 22. (General Education Code(s): T3-Social Sciences, C1.)

**80B. Rhetoric and Inquiry: Social Justice and Community.**

Explores the intersection of investigation, interpretation, and persuasion and refines strategies for writing, research,

and speaking. Examines social justice issues; topics include racism, sexism, and other forms of prejudice and discrimination; poverty and welfare; civil liberties; and community involvement and citizenship. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. Enrollment limited to 22. (General Education Code(s): T3-Social Sciences, C2.)

**91. Introduction to Nuclear Policy (1 credit).**

Introduces the key aspects of nuclear policy. Examines issues associated with nuclear weapons and civil nuclear power and the interplay between the two with regards to proliferation. Presentation will be given by guest speakers. Enrollment limited to 80. May be repeated for credit.

**110. Service-Learning Field Study (Esprit de Corps).**

Provides college members opportunity to apply their academic learning in a practical setting in the community. Students earn academic credit by volunteering in a non-profit agency or school for 10 hours per week. Students supervised by a professional on site. Students attend a weekly class, complete readings, listen to local leaders from the community, reflect upon their experiences with fellow students, and submit a final project related to their service-learning placement. Taught concurrently with course 110B. (Formerly course 193, *Field Study*.) Enrollment restricted to sophomore, junior, and senior College Nine and College Ten members. Enrollment limited to 22. May be repeated for credit.

**110B. Service-Learning Field Study (Esprit de Corps) (2 credits).**

Provides college members opportunity to apply their academic learning in a practical setting in the community. Students earn academic credit by volunteering in a non-profit agency or school for four hours per week. Students supervised by a professional on site. Students attend a weekly class, complete readings, listen to local leaders from the community, reflect upon their experiences with fellow students, and submit a final project related to their service-learning placement. Taught concurrently with course 110. (Formerly course 193F, *Field Study*.) Enrollment restricted to sophomore, junior, and senior College Nine and College Ten members. Enrollment limited to 22. May be repeated for credit.

**Cowell College**

**70A. Bookbinding.**

Students learn techniques of bookbinding, construction, and design, and fundamentals of letterpress printing. Students are billed a materials fee. May not be used to fulfill art major requirements. (Also offered as Art 70A. Students cannot receive credit for both courses.) Enrollment limited to 12. (General Education Code(s): A.)

**80A. Introduction to University Discourse: Imagining Justice Past and Present.**

Explores rhetorical principles and conventions of university discourse, providing intensive practice in analytical writing, critical reading, and speaking. Focuses on conceptions of justice, historic and contemporary, and considers

**The Coalition for Student Academic Success (CSAS)**

sponsors a series of **workshops** every quarter to support your goals of persevering and succeeding at the university. Workshops are held at a variety of locations on campus. Fall quarter's workshops will include the following topics:

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- Note-taking Techniques
- Writing Skills
- Time Management
- Test Anxiety

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how literary and artistic media may transmit, question, or revise notions of the just. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. Enrollment limited to 22. (General Education Code(s): T4-Humanities and Arts, C1.)

**80B. Rhetoric and Inquiry: Imagining Justice Past and Present.**

Explores the intersections of investigation, interpretation, and persuasion and hones strategies for writing and research. Focuses on conceptions of justice, historic and contemporary, and considers how literary and artistic media may transmit, question, or revise notions of the Just. Incorporates independent research. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. Enrollment limited to 22. (General Education Code(s): T4-Humanities and Arts, C2.)

**184A. Leadership and Institution Building (2 credits).**

Through lectures by senior administrators and student consensus-and-recommendation teams, students learn how leaders work with constituent groups, build cooperation, and develop implementation plans in an institution such as the University of California, specifically, UC Santa Cruz. Enrollment restricted to undergraduates accepted in the Chancellor's Undergraduate Internship Program. Enrollment limited to 40.

**Crown College**

**80A. Intro to University Discourse: Ethical Issues in Emerging Technologies: Transgenics, Clones, Cyborgs.**

Explores rhetorical principles and conventions of university discourse, providing intensive practice in analytical writing, critical reading, and speaking. Examines ethical challenges resulting from the constant changes caused by rapidly accelerating pace of change brought on by science and technology. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. (General Education Code(s): T4-Humanities and Arts, C1.)

**80B. Rhetoric and Inquiry: Ethical Issues in Emerging Technologies: Transgenics, Clones, Cyborgs, and AI.**

Explores the intersections of investigation, interpretation, and persuasion and hones strategies for writing and research. Examines ethical challenges resulting from constant changes caused by rapidly accelerating pace of change brought on by science and technology. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. (General Education Code(s): T4-Humanities and Arts, C2.)

**185. Profession Training Program: Internship Preparation (2 credits).**

For all students preparing for an internship; exploration of career objectives, tools and resources to assist in finding and securing the ideal internship, and techniques for maximizing the benefits of the internship experience.

Enrollment by consent of instructor. Enrollment limited to 40.

**Kresge College**

**12A. Service Learning (3 credits).**

Students find a volunteer position with the instructor's assistance and perform community service in non-profit organizations, schools, unions, or local government agencies. Students meet weekly, keep a journal, and write a "social action witnessing" report of their experience. Enrollment restricted to college members. Enrollment limited to 15. May be repeated for credit.

**80A. Introduction to University Discourse: Power and Representation.**

Explores rhetorical principles and conventions of university discourse, providing intensive practice in analytical writing, critical reading, and speaking. Explores relationships between individuals and their communities—communities as small as families and friends, colleges and cities; communities as large as nations and the world. Examines ways we constitute ourselves as individuals in relation to communities, focusing on representations of class, ethnicity, sexual orientation, gender, and race in several genres—critical theory, film, art, fiction, non-fiction, and theater. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. Enrollment limited to 22. (General Education Code(s): T5-Humanities and Arts or Social Sciences, C1.)

**80B. Rhetoric and Inquiry: Power and Representation.**

Explores the intersections of investigations, interpretation, and persuasion, and hones strategies for writing and research. Explores relationships between individuals and their communities—communities as small as families and friends, colleges and cities; communities as large as nations and the world. Examines ways we constitute ourselves as individuals in relation to communities, focusing on representations of class, ethnicity, sexual orientation, gender, and race in several genres—critical theory, film, art, fiction, non-fiction, and theater. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. Enrollment limited to 22. (General Education Code(s): T5-Humanities and Arts or Social Sciences, C2.)

**80T. Power and Representation (Kresge Core Course for Transfer Students).**

Explores the intersections of investigations, interpretation, and persuasion, and hones strategies for writing and research. Explores relationships between individuals and their communities—communities as small as families and friends, colleges and cities; communities as large as nations and the world. Examines ways we constitute ourselves as individuals in relation to communities, focusing on representations of class, ethnicity, sexual orientation, gender, and race in several genres—critical theory, film, art, fiction, non-fiction, and theater. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to sophomore, junior, and senior college members. Enrollment limited to 22. (General Education Code(s): T5-Humanities and Arts or Social Sciences, W.)

**Merrill College**

**80A. Introduction to University Discourse: Cultural Identities and Global Consciousness.**

Explores rhetorical principles and conventions of university discourse, providing intensive practice in analytical writing, critical reading, and speaking. Examines world poverty, imperialism, and nationalism; peoples' need to assert their cultural identities; and the benefits of individuals' absorption in worthy causes. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. (General Education Code(s): T3-Social Sciences, C1, E.)

**80B. Rhetoric and Inquiry: Cultural Identities and Global Consciousness.**

Explores the intersections of investigation, interpretation, and persuasion and hones strategies for writing and research. Examines world poverty, imperialism, and nationalism; peoples' need to assert their cultural identities; and the benefits of individuals' absorption in worthy causes. Incorporates outside research. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. (General Education Code(s): T3-Social Sciences, C2, E.)

**80L. Merrill Core Visual Laboratory (2 credits).**

Visual laboratory designed to work in tandem with the Merrill Core Course to enhance learning for students with diverse skills and learning styles. Open to first-year Merrill students currently enrolled in course 80A, 80B, or 80X. Required of students in the Merrill Frosh Scholars Program. Concurrent enrollment in course 80A, 80B, or 80X is required.

**80X. Introduction to University Discourse: Cultural Identities and Global Consciousness (Frosh Scholar).**

Explores rhetorical principles and conventions of university discourse, providing intensive practice in analytical writing, critical reading, and speaking. Examines world poverty, imperialism, and nationalism; people's need to assert their cultural identities; and the benefits of individuals' absorption in worthy causes. Permission of instructor required; selection for this year-long scholars program based on application submitted prior to fall quarter. Enrollment restricted to first-year college members. Enrollment limited to 22. (General Education Code(s): T3-Social Sciences, C1, E.)

**85B. Merrill Classroom Connection Field Study (3 credits).**

Supervised hands-on experience assisting in local elementary classrooms. Students attend UCSC class meetings, complete relevant readings in educational theory, and present a final assignment. Attend first class meeting for instructor permission. May be repeated for credit.

**85C. Merrill Classroom Connection Field Study (2 credits).**

Supervised hands-on experience assisting in local elementary school classrooms. Students also attend UCSC course meetings, complete relevant readings in educational theory, and present a final assignment. First-year Merrill

College students are selected for this yearlong scholars program on the basis of an application submitted prior to fall quarter. Attend first class meeting for instructor permission. Enrollment limited to 22. May be repeated for credit.

**Oakes College**

**10. Academic Success (2 credits).**

Provides opportunity to assess and revise methods of and purposes in studying. Critical, effective approaches to reading, writing, participating in lectures and sections, taking exams, balancing competing responsibilities, and utilizing campus resources explored. Enrollment by permission of college adviser.

**80A. Introduction to University Discourse: Values and Change in a Diverse Society.**

Explores rhetorical principles and conventions of university discourse providing intensive practice in analytical writing, critical reading, and speaking. Examines historical and contemporary aspects of multiculturalism in the U.S. Explores how social inequality based on ethnicity, race, class, and gender occurs among all levels of society. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. Enrollment limited to 22. (General Education Code(s): T5-Humanities and Arts or Social Sciences, C1, E.) o

**80B. Rhetoric and Inquiry: Values and Change in a Diverse Society.**

Explores intersections of investigation, interpretation, and persuasion and hones strategies for writing and research. Examines historical and contemporary aspects of multiculturalism in the U.S. Explores how social inequality based on ethnicity, race, class, and gender occurs among all levels of society. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. Enrollment limited to 22. (General Education Code(s): T5-Humanities and Arts or Social Sciences, C2, E.)

**Porter College**

**80A. Introduction to University Discourse: Writing Across the Arts.**

Explores rhetorical principles and conventions of university discourse, providing intensive practice in analytical writing, critical reading, and speaking. Study, discuss, and write about social, political, and aesthetic issues raised by selected works of literature and art in a variety of media. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. (General Education Code(s): T4-Humanities and Arts, C1.)

**80B. Rhetoric and Inquiry: Writing Across the Arts.**

Explores the intersections between rhetoric (persuasion) and inquiry (investigation) and hones strategies for effective reading, writing, speaking, and research. Read, discuss, research, and write about social, political, and aesthetic issues raised by selected works of literature and art in a variety of media. Students cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. (General Education Code(s): T4-Humanities and Arts, C2.)

**80L. Documenting Oral History.**

Students learn basic techniques of interview and camera work to document on film oral histories collected from community elders. Students develop their skills in writing, theater, visual art, music, or film to reinterpret oral histories as artwork. Enrollment limited to 30. (General Education Code(s): T5-Humanities and Arts or Social Sciences, A.)

**80W. Writing Across the Arts.**

Explores the intersections between rhetoric (persuasion) and inquiry (investigation) and hones strategies for effective reading, writing, speaking, and research. Students read, discuss, research, and write about social, political, and aesthetic issues raised by selected works of literature and art in a variety of media. Prerequisite(s): satisfaction of the Entry Level Writing Requirement, and C1 and C2 requirements. Enrollment restricted to college members. Enrollment limited to 22. (General Education Code(s): T4-Humanities and Arts, W.)

**83. Pacific Rim Film Festival: Viewing Across Cultures (2 credits).**

Involves viewing Asian and Pacific films at the annual Pacific Rim Film Festival, participating in post-screening discussions with area experts, and writing on the issues of cross-cultural viewing/reading of film. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

**121D. Sundanese Gamelan and Dance Theater (2 credits).**

Practical study of the musical traditions of the Sundanese people of Indonesia with attention to technique and cultural features leading to the performance of a dance theater performance. Enrollment limited to 15. May be repeated for credit. (General Education Code(s): A.)

**180. Writing Across the Arts: Pedagogical Practicum.**

Upper-division students participate in Porter core course, joining in seminars and leading small group sections exploring social, political, and aesthetic issues raised by selected works of literature and art in a variety of media. Participate in weekly seminar dealing with pedagogical practice preparing students to raise issues related to texts, critical thinking, writing, and the artistic process. Enrollment limited to 18.

**Stevenson College**

**80A. Introduction to University Discourse: Self and Society.**

Explores rhetorical principles and conventions of university discourse providing intensive practice in analytical writing, critical reading, and speaking. Stevenson's core course considers the roots of modern society using foundational religious texts and major classical and modern philosophical works. Students cannot receive credit for this course and course 80B. Enrollment restricted to first-year college members who have not satisfied the C1 requirement. Enrollment limited to 25. (General Education Code(s): T5-Humanities and Arts or Social Sciences, C1.)

**80B. Rhetoric and Inquiry: Self and Society.**

Explores the intersections of investigation, interpretation, and persuasion and hones strategies for writing and research. Stevenson's core course investigates the roots of modern society, using foundational religious texts and classical and modern philosophical works. Students

cannot receive credit for this course and course 80A. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment restricted to first-year college members. Enrollment limited to 25. (General Education Code(s): T5-Humanities and Arts or Social Sciences, C2.)

**80H. Rainbow Theater: An Introduction to Multicultural Theater.**

Introduction to Asian American, Chicano/Latino, and African American plays through reading of major authors, discussion of social and historical context of their work, and development of a production of a one-act play from each cultural group. In-depth examination of key historical context of these three cultural groups. Video presentations followed by class discussion. Enrollment limited to 25. May be repeated for credit. (General Education Code(s): T4-Humanities and Arts, E.)

**Applied Math and Statistics**

**3. Precalculus for Science and Engineering.**

Includes real numbers, inequalities, linear and quadratic equations, functions, inverse graphs, exponential and logarithmic functions, trigonometry, and analytic geometry, and their use in real-world problems. Students cannot receive credit for both this course and Mathematics 3. Mathematics 3 can substitute for course 3. Prerequisite(s): score of 20 or higher on Mathematics Placement Exam or Mathematics 2. (General Education Code(s): Q.)

**5. Statistics.**

Introduction to statistical methods/reasoning, including descriptive methods, data-gathering (experimental design and sample surveys), probability, interval estimation, significance tests, one- and two-sample problems, categorical data analysis, correlation and regression. Emphasis on applications to the natural and social sciences. Students cannot receive credit for this course if they have already received credit for course 7. (General Education Code(s): IN, Q.)

**7. Statistical Methods for the Biological, Environmental, and Health Sciences.**

Case-study-based introduction to statistical methods as practiced in the biological, environmental, and health sciences. Descriptive methods, experimental design, probability, interval estimation, hypothesis testing, one- and two-sample problems, power and sample size calculations, simple correlation and simple linear regression, one-way analysis of variance, categorical data analysis. (Formerly *Statistical Methods for the Biological and Environmental Sciences*.) Prerequisite(s): score of 31 or higher on mathematics placement exam, course 3, 11A, Mathematics 3, 11A, 19A or by permission of instructor. Concurrent enrollment in course 7L is required. (General Education Code(s): IN, Q.)

**7L. Statistical Methods for the Biological, Environmental, and Health Sciences Laboratory (2 credits).**

Computer-based laboratory course in which students gain hands-on experience in analysis of data sets arising from statistical problem-solving in the biological, environmental, and health sciences. Descriptive methods, interval estimation, hypothesis testing, one- and two-sample problems, correlation and regression, one-way analysis of variance, categorical data analysis. (Formerly *Statistical Methods for the Biological and Environmental Sciences Laboratory*.) Prerequisite(s): score of 31 or higher

on mathematics placement exam, course 3, 11A, Mathematics 3, 11A, 19A, or by permission of instructor. Concurrent enrollment in course 7 is required.

**10. Mathematical Methods for Engineers I.**

Applications-oriented course on complex numbers and linear algebra integrating MATLAB as a computational support tool. Introduction to complex algebra. Vectors, basis and transformations. Matrix algebra. Solutions of linear systems, inverse and determinants. Eigenvalues and eigenvectors. Geometric transformations. Students cannot receive credit for this course and for course 27L or Mathematics 21. (Formerly course 27, Mathematical Methods for Engineers.) Prerequisite(s): Score of 40 or higher on mathematics placement exam, or course 3, or Mathematics 3. (General Education Code(s): Q.)

**10A. Basic Mathematical Methods for Engineers I (3 credits).**

Applications-oriented course on complex numbers and linear algebra integrating MATLAB as a computational support tool. Introduction to complex algebra. Vectors, basis and transformations. Matrix algebra. Solutions of linear systems, inverse and determinants. Students cannot receive credit for this course and for course 10 or course 27L or Mathematics 21. Prerequisite(s): Score of 40 or higher on mathematics placement exam, or course 3, or Mathematics 3.

**11A. Mathematical Methods for Economists.**

Mathematical tools and reasoning, with applications to Economics 1. Topics are drawn from differential calculus and include limits, continuity, techniques of differentiation, differentials, relative and absolute extrema, and applied optimization. (Also offered as Economics 11A. Students cannot receive credit for both courses.) Students who have already taken Mathematics 11A and 19A should not take this course. Prerequisite(s): score of 31 or higher on Math Placement Exam. Students who do not place into precalculus should enroll in Mathematics 2. (General Education Code(s): IN, Q.)

**11B. Mathematical Methods for Economists.**

Mathematical tools and reasoning, with applications to Economics 2. Topics are drawn from integral calculus and multivariable calculus, including indefinite and definite integrals, separate differential equations, partial derivatives, total differentials, optimization in several variables, and Lagrange multiplier. (Also offered as Economics 11B. Students cannot receive credit for both courses.) Prerequisite(s): course 11A, Economics 11A, Mathematics 11A, or Mathematics 19A. (General Education Code(s): IN, Q.)

**132. Statistical Inference.**

Introduction to statistical inference at a calculus-based level: maximum likelihood estimation, sufficient statistics, distributions of estimators, confidence intervals, hypothesis testing, and Bayesian inference. Prerequisite(s): course 131 or Computer Engineering 107.

**205A. Mathematical Statistics.**

Graduate introduction to topics in probability and mathematical statistics. Probabilities, random variables, common families of distributions; expectation and higher moments; multivariate distributions, marginals and conditionals; point estimation, methods and properties; interval estimation, methods and properties; and hypothesis testing, methods and properties. (Formerly course 205.) Prerequisite(s): Strongly recommended:

course 131. Previous experience with univariate and multivariate calculus, and experience with elementary probability also recommended. Enrollment restricted to graduate students.

**205B. Statistical Inference.**

Statistical inference from a frequentist point of view. Properties of random samples; convergence concepts applied to point estimators; principles of statistical inference; obtaining and evaluating point estimators with particular attention to maximum likelihood estimates and their properties; obtaining and evaluating interval estimators; and hypothesis testing methods and their properties. Prerequisite(s): course 131 or equivalent. Enrollment restricted to graduate students.

**211. Foundations of Applied Mathematics.**

Accelerated class on applied mathematical methods for all sciences. Topics include: multivariate calculus, linear algebra, Fourier series, ordinary differential equations, complex analysis, and integral transforms. Enrollment restricted to graduate students.

**221. Bayesian Decision Theory.**

Explores conceptual and theoretical bases of statistical decision making under uncertainty. Focuses on axiomatic foundations of expected utility, elicitation of subjective probabilities and utilities, and the value of information and modern computational methods for decision problems. Prerequisite(s): course 206. Enrollment restricted to graduate students.

**280A. Seminar in Mathematical and Computational Biology (2 credits).**

Weekly seminar on mathematical and computational biology. Participants present research findings in organized and critical fashion, framed in context of current literature. Students present own research on a regular basis. Enrollment restricted to graduate students. Enrollment limited to 20. May be repeated for credit.

**280B. Seminars in Statistical and Applied Mathematical Modeling (2 credits).**

Weekly seminar series covering topics of current research in applied mathematics and statistics. Permission of instructor required. Enrollment restricted to graduate students. (Formerly *Seminar in Applied Mathematics and Statistics*.) May be repeated for credit.

**American Studies**

**10. Introduction to American Studies.**

Introduction to American studies through interdisciplinary examination of past and present California and its diverse peoples. Addresses social, political, and cultural issues, and examines California with attention to regional, national, and global contexts. (Formerly course 1, *America and Americans*.) Satisfies American History and Institutions Requirement. (General Education Code(s): IH, E.)

**80E. U.S. Racial and Ethnic Histories and Formations.**

Introduces key concepts and debates in study of race and ethnicity in U.S. by focusing on a particular ethnoracial group (e.g., Native Americans, Mexican Americans, Asian Americans, African Americans) or by developing a comparative perspective. May be repeated for credit. (General Education Code(s): T5-Humanities and Arts or Social Sciences, E.)

**80F. Introduction to U.S. Popular Cultures.**

Introduces key concepts and debates in popular culture

and media studies and discusses their importance in relation to American studies. Addresses these issues by examining films, television programs, musical recordings, fashion, and so on and the ways in which they are produced, distributed, marketed, and consumed. (General Education Code(s): T5-Humanities and Arts or Social Sciences.)

**113A. Imagining America.**

Examination of varied and often conflicting ways the ambiguous entity conventionally labeled "America" has been imagined, both positively and negatively, in political speeches, painting, fiction, film, television, music, drama, advertising, parades, and other modes of expression.

**114B. Marxist Thought in American Culture.**

Explores history of Marxist thought and activism in the U.S. with special emphasis on uses and effects of Marxism within aggrieved communities of color. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. (General Education Code(s): W.)

**114C. Labor in U.S. Society.**

Examines the history of work and class in U.S. society with particular attention to how race and gender inform the constructions of multiple working classes. Drawing upon primary and secondary materials, the course analyzes the formations of labor unions, regional labor patterns, and the development of the capitalist market economy.

**123M. Celluloid Natives: American Indian History on Film.**

Examines how American Indian history and culture has been portrayed in Hollywood films, with an emphasis on films that represent Native Americans over the broad spectrum of Native American/white relations. (General Education Code(s): E.) e

**190L. Culture and Politics of Virtual Worlds.**

Explores the ways in which the virtual and the real overlap, constitute, and critique each other, and uses each to illuminate cultural and theoretical discussions around race, gender, sexuality, and labor. Enrollment restricted to senior American studies majors. Enrollment limited to 25.

**Anthropology**

**1. Introduction to Human Evolution.**

Study of evolution illustrated by Pleistocene hominid fossils and variation in living human groups. Behavior and evolution of primates examined as they contribute to the understanding of human evolution. Required for all anthropology majors. (General Education Code(s): IN.)

**80H. Acoustic Culture.**

Explores relationships between culture and the acoustic worlds, including environmental, verbal, and musical, which humans inhabit. How can paying attention to cultures of listening and sound-making help us think about cultural life and experience in new ways? (General Education Code(s): T3-Social Sciences.)

**80P. India and Indian Diaspora through Films.**

Explores several themes of relevance in contemporary India and Indian diaspora, concentrating on anthropological research and various documentary and popular Bollywood films. Through films and ethnographies, students analyze the nature of anthropological contributions to the study of Indian societies. (General Education Code(s): T3-Social Sciences, E.)

**81A. Mexican Folklórico Dance (2 credits).**

Provides instruction in the aesthetic, cultural, and historical dimensions of Mexican folklórico dance. Students taught choreographed dances from various regions of Mexico and also learn dance techniques (técnica) and stage make-up application. Additional workshops and lectures offered to supplement class. Open to all students; no previous experience required. (Also offered as Latin American&Latino Studies 81A. Students cannot receive credit for both courses.) May be repeated for credit. (General Education Code(s): A.)

**106. Primate Behavior and Ecology.**

The nature of primate social systems and social bonds is examined in the light of evolutionary and ecological concepts. Students cannot receive credit for this course and course 206. Prerequisite(s): course 1.

**110. Comparative Functional Anatomy.**

Comparative and evolutionary anatomy of human performance. Examines locomotor systems and their underlying structure and evolution through videos, skeletons, and dissections in a variety of mammals, primates, and humans. Students are billed a materials fee. (*Anthropology of Movement*.) Prerequisite(s): courses 102A or 107 or 185; or by interview. Enrollment limited to 20.

**126. Sexuality and Society in Cross-Cultural Perspective.**

The meaning and social processes associated with sexuality in selected societies. Examination of variations in sexual expressions and control of sexuality, and in economic and political organizations, highlights the interrelationship of sex and society. Prerequisite(s): course 2.

**130M. Inside Mexico.**

Examines various communities within the Republic of Mexico as represented in ethnographic texts and other forms of cultural production, particularly music and dance. Emphasis on the interplay between the concept of regionalism and national identity. Previous course work in Mexican culture and/or history strongly recommended. Some reading in Spanish is required. (General Education Code(s): E.)

**130N. Native Peoples of North America.**

A survey of Native American cultures and experience during the past century, with emphasis on Pueblo cultures of the American Southwest. (General Education Code(s): E.)

**130X. Special Topics in Ethnography.**

This course on special topics in ethnography will be taught on a rotating basis by various faculty members. Precise focus of each year's courses will vary according to the instructor and will be announced by the department. May be repeated for credit.

**134. Medical Anthropology: An Introduction.**

Cross-cultural study of health, disease, and illness behavior from ecological and ethnomedical perspectives. Implications for biomedical health care policy. Will be offered in the 2008-09 academic year.

**139. Language and Culture.**

Examination of language system and language use in relationship to cultural contexts of communication in Western and non-Western societies. Topics include the Sapir-Whorf linguistic relativity hypothesis; linguistic

constructions of gender; speech variation in relation to class, ethnicity, and national identity; and the emergence of self in communicative acts. Prerequisite(s): course 2.

**145X. Special Topics in Socio-Cultural Anthropology.**

Taught annually on a rotating basis by faculty members. Each year's topic varies by instructor and is announced by the department.

**170. History of Archaeological Theory.**

Historical review of prehistoric archaeology from antiquarianism to the present. Emphasis on development of archaeological theory and its relation to evolutionary and anthropological theory. Students cannot receive credit for this course and course 270. Prerequisite(s): course 3; satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to anthropology and Earth sciences/anthropology combined majors. Recommended for juniors. Offered in alternate academic years. (General Education Code(s): W.)

**174. Origins of Complex Societies.**

Deals with evidence and theories concerning the origins of complex society; the transition from egalitarian, foraging societies to the hierarchical, economically specialized societies often referred to as "civilizations." Focuses on both Old World and New World cultures. Prerequisite(s): course 3.

**184. Zooarchaeology.**

Lectures and seminar on archaeological faunal analysis. Topics include mammalian evolution and osteology, vertebrate taphonomy, reconstruction of human diet from faunal remains, foraging strategy theory, data collection and management, and methods of quantitative analysis. Students cannot receive credit for this course and course 284. Prerequisite(s): course 3. Offered in alternate academic years.

**194K. Reading Ethnographies.**

Explores issues in the representation of culture through reading and discussing ethnographies. Recent experimental ethnographies open topics including the relation between fieldwork and writing, textual strategies, and the politics of ethnographic writing and research. Prerequisite(s): courses 1, 2, and 3; satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to senior anthropology majors. Enrollment limited to 20. (General Education Code(s): W.)

**194N. Comparison of Cultures.**

Seminar for upper-division students interested in theories and methodology of social and cultural anthropology. Devoted to critical discussion of different methods of comparison practiced in anthropology. Prerequisite(s): satisfaction of Entry Level Writing and Composition requirements; courses 1, 2, and 3. Enrollment restricted to senior anthropology majors. Enrollment limited to 20. (General Education Code(s): W.)

**200A. Core Graduate Course (10 credits). F**

Introduces history, ethnography, and theory of cultural anthropology with emphasis on awareness of construction of anthropological canon and areas of conflict within it, leading up to contemporary debates on a variety of issues. Two-term course: students must enroll in both quarters. Enrollment restricted to anthropology graduate students. Enrollment limited to 12.

**228. Grant Writing.**

Devoted entirely to writing grant proposals. Students either work on their graduate education fellowships or their doctoral dissertation grants or both. Reading materials consist of granting agency documents plus examples of successful applications. Enrollment restricted to anthropology graduate students. Enrollment limited to 15. May be repeated for credit.

**270. History of Archaeology.**

Historical review of prehistoric archaeology from antiquarianism to the present. Emphasis on the development of archaeological theory, its relation to evolutionary and anthropological theory, and themes ongoing over time. Students cannot receive credit for this course and course 170. Enrollment restricted to graduate students. Enrollment limited to 15.

**292. Graduate Colloquium (2 credits).**

Designed to offer an institutionalized mechanism for the presentation of research papers and teaching efforts by faculty and advanced graduate students. Enrollment restricted to graduate students. May be repeated for credit.

**294N. Comparison of Cultures.**

Seminar for students interested in theories and methodology of social and cultural anthropology devoted to critical discussion of different methods of comparison practiced in anthropology. Enrollment restricted to graduate students. Enrollment limited to 15.

**Art**

**20. Introduction to Drawing for the Major.**

Introduction to the methods, materials, and purposes of drawing to develop perceptual and conceptual skills through a series of assignments, providing various approaches to drawing as a tool for creative exploration. Discussions and critiques facilitate the development of critical skills. Designed for students considering the art major. Students are billed a materials fee. Enrollment restricted to pre-art and history of art and visual culture majors. Enrollment limited to 20. (General Education Code(s): A.)

**21. Introduction to Computer Art.**

Basic introduction to the use of a computer as a fine art tool and medium. Addresses basic skills, concepts relevant to contemporary art theories, and practices. Provides a hands-on introduction to fundamentals of graphics, image acquisition, and manipulation and programming with demonstrations of relevant software. Students work independently and in groups. Assignments include digital image acquisition and manipulation, basic scripting, hypertext and web publishing, and computer programming. Lectures, readings, and discussions examine new technology artwork and technology's relationship to contemporary culture. Enrollment restricted to pre-art and history of art and visual culture majors. Enrollment limited to 20. (General Education Code(s): A.)

**22. Introduction to Electronics for Intermedia.**

Provides basic introduction to electronic devices for use in making intermedia art. Provides hands-on experience working with sensors, motors, switches, gears, lights, simple circuits, and hardware store devices to create kinetic and interactive works of art. Produce sculptural or installation-based projects. Demonstrations, lectures, and critical discussion of work given to develop concepts

and technical skills. Students are billed a materials fee. Enrollment restricted to pre-art and history of art and visual culture majors. Enrollment limited to 20. (General Education Code(s): A.)

### **23. Intermedia I.**

Introduction to combining media, materials, and forms to explore contemporary art practices such as installation, time based work, performance, collaboration, and interactivity. Assignments encourage an exploration of conscious subject matter, process, and technique. Discussions, reading handouts, and critiques help develop perceptual and conceptual skills. Skill workshops introduce new techniques. Students are billed a materials fee. Enrollment restricted to pre-art and history of art and visual culture majors. Enrollment limited to 20. (General Education Code(s): A.)

### **24A. Introduction to Painting: Oil.**

Introduction to medium of oil painting and to painting process. Assignments develop understanding of potential of this medium as a tool for perceptual and conceptual exploration. Slide lectures introduce assignments and are basis for class discussion of contemporary and historical art activity in the field. Students are billed a materials fee. (Formerly course 24.) Prerequisite(s): course 20 or 80A. Enrollment restricted to pre-art and history of art and visual culture majors. Enrollment limited to 20. (General Education Code(s): A.)

### **26. Introduction to Printmaking.**

Survey of print medium: basic terminology, techniques, application of tools, materials, and condensed history of development of printmaking. Assignments consist of individual and collaborative projects aimed at building skills and gathering technical experience. Introduction to relief printing (black and white and color), intaglio, letterpress, and interface between photography/computer and the handmade print. Exploration of print media for communication of issues including formal aesthetics, social/psychological and personal narrative. Students are billed a materials fee. Prerequisite(s): course 20 or 80A. Enrollment restricted to pre-art and history of art and visual culture majors. Enrollment limited to 20. (General Education Code(s): A.)

### **30. Introduction to Photography for Art Majors.**

Introduction to photography as an art form that explores visual ideas beginning with camera-ready use, negative development, and printing. Prepares for further work in photography or for collaboration with other media in art including computer arts and two- and three-dimensional mixed media. Critically examines photographic works while reading historical and theoretical texts. Students are billed a materials fee. Enrollment restricted to pre-art and history of art and visual culture majors. Enrollment limited to 20. (General Education Code(s): A.)

### **39. Public Art I: Community, Site, and Place.**

Introduces contemporary public art through studio practice, slides, and readings. Create public art works, design scale models, drawings, and project proposals. Includes a local community-based public art project and an ephemeral landscape project. Students are billed a materials fee. Enrollment restricted to pre-major art students and history of art and visual culture majors. Enrollment limited to 20. (General Education Code(s): A.)

### **60. Forms and Ideas.**

Required for all junior transfer student art majors. Introduction to the art program, emphasizing awareness of contemporary visual practices and theory. Combines studio practice and theory. Students are billed a materials fee. Enrollment restricted to junior transfer art majors. Enrollment limited to 20. (General Education Code(s): A.)

### **70A. Bookbinding.**

Students learn techniques of bookbinding, construction, and design, and fundamentals of letterpress printing. Students are billed a materials fee. May not be used to fulfill art major requirements. (Also offered as Cowell College 70A. Students cannot receive credit for both courses.) Enrollment limited to 12. (General Education Code(s): A.)

### **80A. Introduction to Drawing.**

Introductory course for beginners and students not majoring in art. Covers the history of what are considered master drawings from prehistory to the present. Various media are examined and assigned in specific exercises. Course is a balance of historical study and practice through assigned homework exercises. A disciplined performance is expected. Enrollment limited to 90. (General Education Code(s): T4-Humanities and Arts, A.)

### **80C. Introduction to Visual Arts.**

Focus is placed on contemporary issues in critical theory and studio practice in comparison with theory and practice in other historical contexts. Students are introduced to topics that involve the social, political, and aesthetic role of visual images in both the private and public domains. While theory and practice are addressed in the context of Western cultures, guest speakers introduce topics related to the visual practices of their cultures. Enrollment limited to 200. (General Education Code(s): T4-Humanities and Arts, A.)

### **80D. Introduction to Photography.**

Introductory course for beginners and nonmajors. Various techniques examined and assigned in specific exercises. Work on projects using color film; this is a non-darkroom course. Examples given of photography from 1826 to the present. Balances historical study and practice through assigned homework exercises. Students are billed a materials fee. Enrollment limited to 90. (General Education Code(s): T4-Humanities and Arts, A.)

### **101. Intermediate/Advanced Drawing.**

Work moves toward individual directions in drawing. A variety of media are explored. Each student is expected to do 150 hours of drawing over the quarter. Students are billed a materials fee. Prerequisite(s): course 20. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit.

### **102. Figure Drawing.**

Focuses on drawing from the human figure and exploring the figure for the purpose of personal expression and social communication. Intended for the intermediate/advanced drawing student. Students are billed a materials fee. Prerequisite(s): course 20. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

### **103. Intermediate/Advanced Painting.**

Continuation of the development of a basic foundation in painting with emphasis on the development of individual, experimental procedures. Students are billed a

materials fee. Prerequisite(s): course 24A or 24B. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit.

### **109. Intermedia II.**

Further investigation in combining media, materials, and forms to explore a variety of contemporary art practices. Students develop their projects thematically throughout the quarter. Assignments encourage experimentation with time and motion, text and images, collaboration, installation, performance, and interactivity. Discussions, reading handouts, and critiques further the development of perceptual and conceptual skills. Skill workshops introduce new techniques. Students are billed a materials fee. Prerequisite(s): course 22 or 23 or 29 or 39 or 40. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

### **111. Book Arts II.**

Individual projects to complete printing and binding of small books. Taught in conjunction with course 70. Does not fulfill a requirement for the art major. Students are billed a materials fee. Enrollment limited to 12. May be repeated for credit.

### **112. Intaglio I.**

Introduces students to various methods used in making intaglio prints. Encourages individual artistic growth of imagery and technique through assignments designed to explore the medium. Includes discussion and critique of work with equal emphasis on technique and concept. Students are billed a materials fee. Prerequisite(s): course 25, 26, or 27. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

### **123. Digital Printmaking in Contemporary Art Practice.**

Addresses electronic imaging, output, and transferring as means of producing prints. Students gain knowledge and experience in using computer equipment including digital cameras, scanners, printers, and a variety of software. Investigation of conceptual and technical identities between digital image-making and traditional methods, as well as crossing over them to contemporary trends in art practice. Students are billed a materials fee. Prerequisite(s): course 25 or 26 or 27, or permission of instructor. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

### **126. Art of Bookmaking.**

Introduction to production of small edition books and multiples utilizing sequential visual imaging, narrative content, and mixed media in bookmaking. Provides instruction in conceptualizing, producing, and distributing printed artists' multiples. Ideas encouraged within a broad range of possibilities via the format of artists' books. Students are billed a materials fee. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

### **127A. Visiting Artist Special Topics: A.**

Students work collaboratively with a professional visiting artist on his/her research to develop their studio skills, discuss current critical and theoretical readings, and learn skills necessary to becoming a professional artist. Enrollment by portfolio review and restricted to junior and senior art majors. Concurrent enrollment in course 127B

is required. Students are billed a materials fee. Enrollment restricted to junior art majors. Enrollment limited to 20. May be repeated for credit.

**127B. Visiting Artist Special Topics: B.**

Students develop independent projects under the advice and guidance of a professional visiting artist during weekly studio classes and discussions. Enrollment by portfolio review and restricted to junior and senior art majors. Concurrent enrollment in course 127A required. Enrollment restricted to junior art majors. Enrollment limited to 20. May be repeated for credit.

**130. Intermediate Photography.**

Continuation of course 30. Students explore visual ideas, directing their work toward individualized goals. Required work includes making photographic prints, reading historical and theoretical works, and examination of photographs. Students are billed a materials fee. Prerequisite(s): course 30. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit.

**132. Color in Photography.**

Concentration on making photographic works in color. Students produce a portfolio of color photographs, read historical and theoretical works, and study photographs and other art works. Individualized projects may include work with color transparencies, Ektacolor printing, color Xerox, computer-generated imagery, or mixed media. Students are billed for a materials fee. May be repeated for credit. Prerequisite(s): course 130. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit.

**134. Special Topics in Photography.**

Special studies in photography, concentrating on specific subject matter or media. Topics may include documentary photography, landscape, alternative processes, or mixed media. Students are billed a materials fee. Prerequisite(s): course 30. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit.

**135. Introduction to Digital Photography.**

Introduction to basic theories behind the digital production, manipulation, and output of photographic images. Through readings and production, students address major issues specific to working with images in an increasingly digital environment. Students are billed a materials fee. Prerequisite(s): course 30. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

**141. Sculpture II.**

More advanced fabrication techniques in sculpture using wood, metal, industrial, and other materials. Techniques include carpentry and woodshop skills, and an introduction to sculptural forms, processes, and ideas. Demonstrations, slide lectures, and critical discussion of work help develop technical and conceptual skills. Students are billed a materials fee. Prerequisite(s): course 23, 28, 29, 39, or 40. Enrollment restricted to pre-art, art, and history of art and visual culture majors. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

**150C. Issues in Collaboration and Interactivity.**

This writing-specific seminar explores collaboration and interactivity in contemporary art and visual cultures. Emphasis is on artworks where interaction and collaboration produce controversial and challenging results. Examines

the convergence of media forms and artist collaborations, and the intersection of competing theoretical ideas and ideologies. The intention is to understand how artists and visual producers respond to an increasingly shifting society where rapid cultural change, advances in technology, and the effects of globalization reconfigure how we perceive the world. Prerequisite(s): Satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to senior art majors. Enrollment limited to 20. (General Education Code(s): W.)

**Astronomy and Astrophysics**

**2. Overview of the Universe.**

An overview of the main ideas in our current view of the universe, and how they originated. Galaxies, quasars, stars, pulsars, and planets. Intended primarily for nonscience majors interested in a one-quarter survey of classical and modern astronomy. (General Education Code(s): IN, Q.)

**4. Introductory Astronomy: The Stars.**

Stellar evolution: observed properties of stars, internal structure of stars, stages of a star's life including stellar births, white dwarfs, supernovae, pulsars, neutron stars, and black holes. Planet and constellation identification. Intended for nonscience majors. Courses 3, 4, and 5 are independent and may be taken separately or sequentially. (General Education Code(s): IN, Q.)

**16. Astrobiology: Life in the Universe.**

Intended for science majors and qualified non-science majors. Knowledge of high school physics and an understanding of mathematics at the Math 2 level required. Enrollment limited to 50. (General Education Code(s): IN, Q.)

**70. Honors Undergraduate Seminar in Astrophysical Research (2 credits).**

Explores current problems in astrophysical research and how they are being solved by practicing scientists. Each presentation-discussion focuses on a different problem or question, explaining how the problem relates to broader astronomical issues, describing the methods used to solve the problem and reviewing the hoped for, or anticipated outcome. Intended for students considering a career in the physical sciences. Enrollment by permission of instructor, with preference to first and second year students majoring in physics or earth sciences.

**117. High Energy Astrophysics.**

Theory and practice of space and ground-based x-ray and gamma-ray astronomical detectors. High-energy emission processes, neutron stars, black holes. Observations of x-ray binaries, pulsars, magnetars, clusters, gamma-ray bursts, the x-ray background. High-energy cosmic rays. Neutrino and gravitational-wave astronomy. Prerequisite(s): Mathematics 22 or 23A, Physics 5B or 6B, and 101A.

**135A. Astrophysics Advanced Laboratory (3 credits).**

Introduction to techniques of modern observational astrophysics at optical and radio wavelengths through hands-on experiments. Intended primarily for juniors and seniors majoring or minoring in astrophysics. Offered in some academic years as single-term course 135 in fall, depending on astronomical conditions. (Also offered as Physics 135A. Students cannot receive credit for both courses.) Prerequisite(s): Physics 133 and at least one astronomy course.

**171. General Relativity, Black Holes, and Cosmology.**

Special relativity is reviewed. Curved space-time, including the metric and geodesics, are illustrated with simple examples. The Einstein equations are solved for cases of high symmetry. Black-hole physics and cosmology are discussed, including recent developments. (Also offered as Physics 171. Students cannot receive credit for both courses.) Prerequisite(s): courses 105, 110A, 110B, and 116A-B-C.

**205. Introduction to Astronomical Research.**

Lectures by UCSC faculty on current areas of astronomical and astrophysical research being carried out locally. Enrollment restricted to graduate students.

**214. Structure Formation in the Universe.**

Course builds upon course 240C (offered in alternate) and covers a similar set of topics with a larger emphasis on first stars and black holes, galaxy formation, the physics of the intergalactic medium, and high-redshift sources. Enrollment restricted to graduate students.

**220A. Stellar Structure and Evolution.**

Survey of stellar structure and evolution. Physical properties of stellar material. Convective and radiative energy transport. Stellar models and evolutionary tracks through all phases. Comparison with observations. Enrollment restricted to graduate students. Offered in alternate academic years.

**230. Low-Density Astrophysics.**

Fundamental physical theory of gaseous nebulae and the interstellar medium. Ionization, thermal balance, theory and observation of emission spectra. Interstellar absorption lines, extinction by interstellar dust. Ultraviolet, optical, infrared, and radio spectra of gaseous nebulae. Offered in alternate academic years.

**292. Seminar (no credit).**

Seminar attended by faculty, graduate students, and upper-division undergraduate students.

**Biochemistry and Molecular Biology**

**100A. Biochemistry.**

Fundamentals of molecular biology, structure and function of nucleic acids, and protein structure. Designed for students preparing for research careers in biochemistry and molecular biology. Lecture: 3-1/2 hours; discussion: 1-1/4 hours. Prerequisite(s): Chemistry 108B or 112C; Biology 20A; Biology 105 strongly recommended as preparation.

**Biology: Ecology & Evolutionary Biology**

**20B. Development and Physiology.**

Topics in morphology, physiology, development, genetics, and endocrinology selected to exemplify current issues and perspectives in organismic biology. (Formerly Biology 20B.) Prerequisite(s): course 20A.

**20C. Ecology and Evolution.**

Introduction to ecology and evolution covering principles of evolution at the molecular, organismal, and population levels. Evolutionary topics include genetic and phenotypic variation, natural selection, adaptation, speciation, and macroevolution. Also covers behavioral, population, and community ecology including applied ecological issues. (Formerly Biology 20C.)

**75. Scientific Diving Certification (2 credits).**

Prerequisite for course 161/L, *Kelp Forest Ecology*, and all research diving performed under the auspices of UCSC

or other academic institutions. Course work includes lectures and scuba diving. Topics include subtidal sampling techniques, navigation, low visibility diving, search and recovery, rescues, small boat use, oxygen administration for divers, technical blue water deep diving, physics, and physiology. Pick up application in room A414 EMS during preceding quarter. Students are billed a course materials fee that covers costs for equipment use, materials, and transportation. Prerequisite(s): skill level equal to Advanced Scuba Diver Certification, pass scuba physical, provide own scuba gear, be certified in CPR and First Aid; and interview: pass swim test and scuba skills test. (Formerly Biology 75.) Enrollment limited to 16.

**109. Evolution.**

An examination of the history and mechanisms of evolutionary change. Topics include molecular evolution, natural and sexual selection, adaptation, speciation, biogeography, and macroevolution. (Formerly Biology 175.) Prerequisite(s): courses 20A, 20B, 20C, and 105.

**133. Exercise Physiology.**

An advanced-level course concerning physiological and biochemical processes associated with human performance. Emphasis is on the integration of organ systems for exercise. Topics include metabolism and fuel utilization, cardiovascular and respiratory dynamics during activity, and the effects of training. Requires a good understanding of basic physiological function and anatomy. Students cannot receive credit for this course and course 233. By interview; permission of instructor required. Must be taken concurrently with course 133L. Course 131 or 132 recommended as preparation. (Formerly Biology 133.) Enrollment limited to 20. Offered in alternate academic years.

**133L. Exercise Physiology Laboratory (2 credits).**

An introduction to basic measurement techniques used in assessing the physiological response of humans to exercise. Sessions cover oxygen consumption, respiratory rate, and heart rate monitoring during aerobic and anaerobic activity. By interview: permission of instructor required; course 131 or 132 recommended as preparation. Must be taken concurrently with course 133. (Formerly Biology 133L.) Enrollment limited to 20. Offered in alternate academic years.

**140. Behavioral Ecology.**

An introduction to social and reproductive behavior. Emphasis on studies of vertebrates in their natural habitat. Ideas concerning the evolution of social behavior, mating systems, and individual reproductive strategies. Case histories of well-studied animals that illustrate key principles in courtship and mating, parental behavior, and food-getting behavior. (Formerly Biology 140.) Prerequisite(s): courses 20A, 20B, and 20C.

**145. Plant Ecology.**

An exploration of the ecology of plant form, function, distribution, abundance, and diversity. Topics include plant adaptations to environmental conditions, life history variation, competition, reproductive ecology, herbivory, and patterns of diversity. Lecture with discussions of original papers and independent field project. Students cannot receive credit for this course and courses 151 or 245. (Formerly Biology 169.) Prerequisite(s): course 20A, 20B, and 20C; or Environmental Studies 24. Course 107 is recommended. Enrollment limited to 30.

**145L. Field Methods in Plant Ecology.**

Hands-on exploration of the concepts and techniques of plant ecology. A combination of lab, greenhouse, and field-based exercises (irrespective of weather conditions). Statistical analysis and scientific writing. One required weekend field trip. Students cannot receive credit for this course and courses 151 or 245L. Students are billed a materials fee. (Formerly Biology 169L.) Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements; courses 20A, 20B, and 20C; or Environmental Studies 24. Concurrent enrollment in course 169 is required. Course 107 is recommended. Enrollment limited to 30. (General Education Code(s): W.)

**159A. Marine Ecology Field Quarter: Marine Ecology with Laboratory.**

Total immersion in marine ecology for very motivated students. Students develop a research project during first five weeks on campus and then spend five weeks of immersion in directed research without distraction in isolated locations off campus (past locations include the Gulf of California in Mexico and Moorea in French Polynesia). Not available through University Extension. No other courses may be taken during this quarter. Students must sign a contract agreeing to standards of behavior outlined in the *UCSC Rule Book* and by the instructors. Students are billed a materials, transportation (not airfare), and room and board fee. Paradigms and designs in marine ecology. A review of the paradigms that have shaped our understanding of marine ecology and analysis and discussion of experiments with these paradigms. Students carry out a complete research project, including the formation of hypotheses; the design and implementation of experiments; the collection, analysis, and interpretation of data; and the write-up and oral presentation of results. Admission by interview during previous winter quarter. Courses 159A, 159B, 159C, and 159D are equivalent to courses 127, 127L, 108, and 158L for major requirements. Courses 1592A, 159B, 159C, and 159D must be taken concurrently. (Formerly Biology 162A.) Enrollment limited to 26. Offered in alternate academic years.

**159B. Marine Ecology Field Quarter: Ichthyology with Laboratory.**

An introduction to the biology of jawless, cartilaginous, and bony fishes—their classification, evolution, form, physiology, and ecology. Admission by interview during previous winter quarter. Courses 162A, 162B, 162C, and 162D must be taken concurrently. Courses 159A, 159B, 159C, and 159D are equivalent to courses 127, 127L, 108, and 158L for major requirements. Courses 1592A, 159B, 159C, and 159D must be taken concurrently. (Formerly Biology 162B.) Enrollment limited to 26. Offered in alternate academic years.

**159C. Marine Ecology Field Quarter: Methods in Field Ecology.**

Students learn quantitative methods for field experiments and surveys. Emphasis will be on marine environments, but there will also be exposure to terrestrial systems. This is the lecture component to course 162D. No text is required for this course; instead, readings from the current literature will be assigned. Students are evaluated on written independent field project proposals and class participation. Admission by interview during previous winter quarter. Courses 159A, 159B, 159C, and 159D are equivalent to courses 127, 127L, 108, and 158L for major requirements. Courses 159A, 159B, 159C, and

159D must be taken concurrently. (Formerly Biology 162C.) Enrollment limited to 26. Offered in alternate academic years.

**159D. Marine Ecology Field Quarter: Methods in Field Ecology Laboratory (4 credits).**

This is laboratory portion of course 162C. Students carry out independent field projects under the supervision of course instructors. All work is done during the 5–6 week off-campus portion of course 162. Students are evaluated on field techniques, the final write-up of their independent field projects, and class participation. Admission by interview during previous winter quarter. Courses 159A, 159B, 159C, and 159D are equivalent to courses 127, 127L, 108, and 158L for major requirements. Courses 1592A, 159B, 159C, and 159D must be taken concurrently. (Formerly Biology 162D.) Enrollment limited to 26. Offered in alternate academic years.

**165. Marine Conservation Biology.**

Initially undertakes an in-depth comparison of the biology and conservation of marine versus terrestrial ecosystems. With this foundation, course examines marine biodiversity loss resulting from overexploitation, habitat loss, species introduction, and pollution, with particular emphasis on the resulting trophic cascades, biodiversity losses, and climate change. Students cannot receive credit for this course and Environmental Studies 120. (Formerly Biology 163.) Prerequisite(s): courses 20A, 20B, and 20C; Ocean Sciences 101 recommended.

**183F. Undergraduate Research in Ecology and Evolutionary Biology (2 credits).**

Supervised undergraduate research on a project with an ecology and evolutionary biology faculty member for students considering a career based on biological research. Class reviews the philosophy of science, basic statistics, and library searches, and emphasizes how to input data, create graphs, and prepare results for publication, posters, and talks. (Formerly Biology 183F.) Enrollment restricted to junior and senior EEB majors conducting research project with EEB faculty member.

**183L. Undergraduate Research in Ecology and Evolutionary Biology.**

Supervised undergraduate research on a project with an ecology and evolutionary biology faculty member for students considering a career based on biological research. Class reviews the philosophy of science, basic statistics, and library searches, and emphasizes how to input data, create graphs, and prepare results for publication, posters, and talks. (Formerly Biology 183L.) Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements; enrollment restricted to junior and senior EEB majors conducting research project with EEB faculty member. (General Education Code(s): W.)

**200A. Scientific Skills.**

Exposes graduate students to teaching skills, understanding the scientific method, searching and organizing literature, grant proposal and scientific writing, data management and presentation, and scientific speaking. Students are evaluated on their participation and the quality of a written research proposal. (Formerly Biology 250A.) Enrollment restricted to graduate students.

**200B. Advanced Organismal Biology.**

Consists of lectures focusing on pivotal topics in ecology and evolution. Relevant background material is developed followed by a critical analysis of readings from the primary

literature. Designed to give graduate (and advanced undergraduate) students direct contact with the major areas of research that are currently at the forefront of organismal biology. (Formerly Biology 250B.) Enrollment restricted to graduate students.

**233. Exercise Physiology.**

Physiological and biochemical processes associated with human performance. Students are expected to be familiar with basic organ physiology, biochemistry, and human anatomy. Focuses on bioenergetics and fuel utilization, cardiovascular and respiratory dynamics during activity, and the effects of training, age, and disease on exercise. Laboratory sessions incorporated into study sections. Students cannot receive credit for this course and course 133. Prerequisite(s): by interview; course 131 or 132 recommended as preparation. Enrollment restricted to graduate students. (Formerly Biology 233.) Enrollment limited to 20. Offered in alternate academic years.

**245. Plant Ecology.**

An exploration of the ecology of plant form, function, distribution, abundance, and diversity. Topics include plant adaptations to environmental conditions, life history variation, competition, reproductive ecology, herbivory, and patterns of diversity. Lecture with discussions of original papers and independent field project. Students cannot receive credit for this course and course 145. (Formerly Biology 269.) Prerequisite(s): course 107 or Environmental Studies 24 or permission of instructor. Concurrent enrollment in course 245L is required except by permission of instructor. Enrollment restricted to graduate students.

**245L. Field Methods in Plant Ecology Laboratory.**

Hands-on exploration of the concepts and techniques of plant ecology. A combination of lab, greenhouse, and field-based exercises (irrespective of weather conditions), statistical analysis, and scientific writing. One required weekend field trip. Students cannot receive credit for this course and course 145. (Formerly Biology 269L.) Concurrent enrollment in course 245 is required. Enrollment restricted to graduate students. Enrollment limited to 2.

**281A. Topics in Basic and Applied Marine Ecology.**

Seminar focusing on concepts in basic and applied ecology. Structure rotates quarterly between graduate student research and readings of journal articles and textbooks. (Formerly Biology 281A.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 10.

**281B. Topics in Molecular Evolution (2 credits).**

A discussion of current research and literature review on the subject of molecular evolution. Primary focus on recent results on molecular phylogenetics and molecular population genetics. (Formerly Biology 281B.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

**281C. Topics in Physiological Ecology.**

An intensive seminar focusing on the interaction between physiological constraint and life history options and solutions employed by animals. Topics vary from comparative physiology to ecological theory. Participants are required to present results of their own research or review

papers of interest. (Formerly Biology 281C.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

**281F. Ecological Research Topics.**

Intensive research and discussions on plant-animal interactions. All students undertake a research project and meet weekly with the faculty sponsor to monitor progress. The group meets weekly to discuss experimental design and analysis, specific problems related to the students' research, relevant research papers, or manuscripts that the group members are writing. Each student gives a formal presentation of research plans or progress each quarter. (Formerly Biology 281F.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**281J. Topics in Research on Biochemical Ecology.**

Seminar in which students give critically evaluated presentations regarding current research on selected topics in plant ecology with an emphasis on biochemical ecology. (Formerly Biology 281J.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 12. May be repeated for credit.

**281L. Topics in Behavioral and Evolutionary Ecology.**

An intensive seminar on selected topics in behavioral and evolutionary ecology. Students are expected to discuss the current literature and present literature reviews, research proposals, and preliminary results from their ongoing research. (Formerly Biology 281L.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 10.

**281M. Freshwater Ecology (2 credits).**

Seminar focusing on the ecology of freshwaters. Discussion focuses on recent literature or on student presentations of their own research. (Formerly Biology 281M.) Enrollment restricted to graduate students; undergraduates may enroll with permission of instructor. May be repeated for credit.

**281N. Topics in Marine Vertebrate Ecology.**

Seminar on the ecology of marine vertebrates. Topics vary from the factors that explain the distribution of marine predators to island biogeography and the ecosystem effects of introduced vertebrates on islands. (Formerly Biology 281N.) Enrollment restricted to graduate students. Enrollment limited to 12. May be repeated for credit.

**281P. Topics in Plant Population Ecology.**

An intensive seminar on selected topics in plant ecology and population biology. Students present results from their own research and discuss recent advances from the literature. (Formerly Biology 281P.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission from instructor. Enrollment limited to 12. May be repeated for credit.

**281Q. Topics in Molecular Evolutionary Genetics.**

An intensive seminar on selected topics in molecular evolutionary genetics. Students are required to present results from their own research projects, present a critical review paper at least once during the quarter, and submit a written

research proposal. (Formerly Biology 281Q.) Enrollment restricted to graduate students; qualified undergraduate students may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**281R. Topics in Marine Ecology and Evolutionary Biology.**

An intensive seminar series focusing on fundamental concepts in marine ecology. Emphasis changes quarter to quarter. At least one quarter per year is devoted to discussion of graduate student research. Other quarters involve reading and evaluating current and classic literature on marine ecology and evolutionary biology. (Formerly Biology 281R.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit. *P. Raimondi*

**281T. Species Interactions and Coevolution.**

The genetics and ecological structure of species interactions, and the role of coevolution between species in shaping biodiversity. (Formerly Biology 281T.) Enrollment restricted to graduate students. Enrollment limited to 15. May be repeated for credit.

**281U. Topics in Invertebrate Biology.**

An intensive study about concepts, theory, and techniques for graduate students conducting research on the ecology, genetics, evolution, systematics, or biodiversity of marine invertebrates. (Formerly Biology 281U.) Enrollment restricted to graduate students; advanced undergraduates may enroll with permission of instructor. Enrollment limited to 15. May be repeated for credit.

**281V. Topics in Behavioral Ecology.**

A discussion of current topics and methods in behavioral ecology and life history evolution. (Formerly Biology 281V.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

**281W. Topics in Exercise and Environmental Physiology.**

A weekly seminar discussion on current research and techniques in mammalian exercise and environmental physiology. Areas covered include locomotor physiology, exercise testing and cardiovascular monitoring, and biomechanics. Oral presentation of ongoing research or current literature required from each student. (Formerly Biology 281W.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

**294. Ecology, Evolutionary Biology Seminar (no credit).**

Selected topics of current interest to ecologists and evolutionary biologists presented by weekly guest speakers. (Formerly Biology 294.) Enrollment restricted to graduate students.

**295. Advanced Ecology and Evolutionary Biology Seminar (no credit).**

Course consists of extended weekly meetings organized around an advanced theme in theoretical or applied evolutionary biology, ecology, physiology, behavior, or other aspect of organismal biology. Course is targeted at students who already have reached a professional level of expertise in their field and advanced master students. (Formerly Biology 295.) Enrollment restricted to graduate students. Enrollment limited to 24.

**Biology: Molecular Cell and Developmental Biology**

**15. Undergraduate Research Reports (1 credit).**

Undergraduate students who work in faculty research laboratories present the results of their projects. Organized by the Minority Undergraduate Research Program and the Minority Access to Research Careers Program. Designed for students with membership in the above-mentioned programs. Prerequisite(s): qualifications as determined by instructor at first class meeting. May be repeated for credit.

**20A. Cell and Molecular Biology.**

Introduction to molecular biology, cell physiology, and genetics. Students cannot receive credit for this course and course 21A. Prerequisite(s): Chemistry 1B. Enrollment restricted to first-year students, sophomores, and juniors. (General Education Code(s): IN.)

**20L. Experimental Biology Laboratory (2 credits).**

Provides biology majors with the theory and practice of experimental biology. A wide range of concepts and techniques used in the modern laboratory are included in the exercises. Designed to satisfy the introductory biology lab requirement of many medical and professional schools. Students are billed a materials fee. Prerequisite(s): course 20A and previous or concurrent enrollment in 20B. Enrollment restricted to health sciences and biochemistry and molecular biology majors; other majors by permission. Enrollment limited to 20.

**80A. Female Physiology and Gynecology.**

Biochemical, medical, social, and clinical aspects of the female body. Emphasis will be on biological-chemical interactions in the female organs. Topics include female anatomy, cell physiology, endocrine functions, sexuality and intimacy, sexually transmitted diseases, puberty, pregnancy, menopause, birth control, abortion, immunity, cancer. (General Education Code(s): T2-Natural Sciences.)

**80H. The Human Genome.**

Course will focus on understanding human genes. Accessible to non-science majors. Will cover principles of human inheritance and techniques used in gene analysis. The evolutionary, social, ethical, and legal issues associated with knowledge of the human genome will be discussed. (Also offered as Biomolecular Engineering 80H. Students cannot receive credit for both courses.) (General Education Code(s): T2-Natural Sciences.)

**89. Clinical Health Care: Organization and Financing.**

Introduces students to the principles of health care organizations, including how they are paid for, and examines social constructions of health care in the U.S. Key concepts include access, quality of care, and cultural competence; also features hands-on research. Recommended for health science majors and community studies majors focusing on health. Cannot receive credit for this course and course 89W. (General Education Code(s): IS.)

**100. Biochemistry.**

An introduction to biochemistry including biochemical molecules, protein structure and function, membranes, bioenergetics, and regulation of biosynthesis. Provides students with basic essentials of modern biochemistry and the background needed for upper-division biology courses. Students who plan to do advanced work in biochemistry

and molecular biology should take the Biochemistry and Molecular Biology 100 series directly. Students cannot receive credit for this course after they have completed any two courses from the Biochemistry and Molecular Biology 100A, 100B, and 100C sequence with grades of Pass, C, or better. Prerequisite(s): courses 20A and 20B; and Chemistry 7 or 108A or 112A.

**100L. Biochemistry Laboratory.**

Basic techniques and principles of laboratory biochemistry including isolation and characterization of a natural product, manipulation of proteins and nucleic acids to demonstrate basic physical and chemical properties; and characterization of enzyme substrate interactions. Students are billed a materials fee. Prerequisite(s): course 100 (may enroll concurrently). Enrollment restricted to biological sciences and affiliated majors, non-majors by permission of instructor. Enrollment limited to 20.

**105. Genetics.**

Mendelian and molecular genetics; mechanisms of heredity, mutation, recombination, and gene action. Students cannot receive credit for this course and course 106. Prerequisite(s): course 20A.

**105L. Eukaryotic Genetics Laboratory.**

Classical and newly developed molecular-genetic techniques used to explore genetic variation in wild populations of the fruit fly *Drosophila melanogaster*. Topics include Mendelian fundamentals, mapping, design of genetic screens, bio-informatic and database analysis, genetic enhancers, and population genetics. Students are billed a materials fee. Prerequisite(s): course 105; course 100 or Biochemistry and Molecular Biology 100A recommended. Enrollment restricted to biological sciences and affiliated majors, non-majors by permission of instructor.

**109L. Yeast Molecular Genetics Laboratory.**

The powerful genetic and molecular techniques available for yeast combined with the complete genomic DNA sequence offers opportunity for discovery of fundamental aspects of eukaryotic life. Lab providing practical experience in using yeast as an experimental system. Students are billed a materials fee. Prerequisite(s): course 105; 115 strongly recommended. Enrollment restricted to biological sciences and affiliated majors, non-majors by permission of instructor. Enrollment limited to 15.

**110. Cell Biology.**

Covers the structure, organization, and function of eukaryotic cells. Topics include biological membranes, organelles, protein and vesicular trafficking, cellular interactions, the cytoskeleton, and signal transduction. Requires a good understanding of basic biochemistry and molecular biology. Prerequisite(s): course 100 or Biochemistry and Molecular Biology 100A.

**119. Microbiology.**

Cell and molecular biology of bacteria and their viruses, including applications in medicine, public health, agriculture, and biotechnology. Prerequisite(s): course 100 or Biochemistry 100A.

**119L. Microbiology Laboratory.**

An introduction to the principles and practices of laboratory microbiology, with a substantial presentation of optical microscopy. Students are billed a materials fee. Prerequisite(s): course 119. Course 119 may be taken concurrently. Enrollment restricted to biological sciences and affiliated majors, non-majors by permission of instructor.

**125. Introduction to Neuroscience.**

The structure and function of the nervous system. Topics include elementary electrical principles, biophysics and physiology of single nerve and muscle cells, signal transduction at synapses, development of the nervous system, and neural basis of behavior. Requires a good understanding of basic biochemistry, cell biology, and molecular biology. Prerequisite(s): course 100. Concurrent enrollment in course 105 or 110 is encouraged.

**130. Human Physiology.**

Function, organization, and regulation of the major organ systems of humans, with emphasis on integration among systems. Students cannot receive credit for this course and course 131. Prerequisite(s): courses 20A, 20B, 100, and 110.

**130L. Human Physiology Laboratory (2 credits).**

Examines fundamental principles of systemic physiology focusing on the human. Students cannot receive credit for this course and course 131L. Students are billed a materials fee. (General Education Code(s): W satisfied by taking this course and course 189.) Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements; courses 20A, 20B, 100, and 110. Concurrent enrollment in 130 is required. Enrollment restricted to biological sciences and affiliated majors, non-majors by permission.

**186F. Undergraduate Research in MCD Biology (2 credits).**

Supervised undergraduate research in laboratory of an MCD biology faculty member accompanied by weekly lectures on ethical and practical scientific issues. Topics include laboratory safety; the scientific method; the collection, treatment, and presentation of data; critical evaluation of scientific literature; scientific misconduct; and peer review. Career issues, including how to apply for admission to graduate and professional schools, also discussed. Prerequisite(s): courses 20A and 20B; at least one of course 100, 105, or Biochemistry 100A; and permission of instructor. May be repeated for credit.

**186L. Undergraduate Research in MCD Biology.**

Supervised undergraduate research in laboratory of an MCD biology faculty member accompanied by weekly lectures on ethical and practical scientific issues. Topics include laboratory safety; the scientific method; the collection, treatment, and presentation of data; critical evaluation of scientific literature; scientific misconduct; and peer review. Career issues, including how to apply for admission to graduate and professional schools, also discussed. Prerequisite(s): courses 20A and 20B; at least one of course 100, 105, or Biochemistry 100A; and permission of instructor.

**187L. Molecular Biotechnology Laboratory.**

An intensive molecular biology laboratory that presents procedures used in molecular and biotechnology research. Topics and procedures include DNA/RNA isolation, cloning and library construction, southern and northern hybridization, DNA fingerprinting, PCR, manual and automated sequencing, and computer methods for analyzing molecular data. New procedures currently being developed in biotechnology industries are presented by industry representatives. Students cannot receive credit for this course and course 116L or 287L. Students are billed

a materials fee. Prerequisite(s): courses 20A, 20B, 20C, 100, and 110. Enrollment limited to 20.

**189. Health Sciences Internship.**

Structured off-campus learning experience providing hands-on experience and pre-professional mentoring in a variety of health-related settings. Interns are trained and supervised by a professional at their placement and receive academic guidance from their faculty sponsor. Students spend 10–12 hours per week at their placement, participate in weekly discussion meetings on campus, keep a reflective journal, and submit a final paper. Prerequisite(s): course 20L; satisfaction of the Entry Level Writing and Composition requirements; students interview with health sciences internship coordinator; applications are due one quarter in advance to the Health Sciences Internship Office. Enrollment restricted to health sciences majors. (General Education Code(s): W satisfied by taking this course and course 130L.)

**200A. Advanced Genetics.**

An analysis of selected topics in the primary research literature including conditional lethality, classical fine structure genetics, the coding problem, control of operon expression, phage lambda, and developmental genetics. Students cannot receive credit for this course and course 117A. Enrollment restricted to graduate students. Qualified undergraduates may enroll in course 117A.

**210. Experimental Systems Biology.**

Topics include, but are not limited to, microarray production techniques, experimental strategies using microarrays, extraction and analysis of microarray data, DNA and protein arrays, SNP analysis, gene expression analysis, materials analysis, and advanced analysis of data using bioinformatic techniques. (Formerly *Application and Analysis of Microarrays*.) (Also offered as Biomolecular Engineering 210. Students cannot receive credit for both courses.) Enrollment limited to graduate students; undergraduates may enroll with permission of instructor.

**280A. Topics in Research on Molecular Genetics of Yeast (2 credits).**

Intensive research seminar on the structure and function of the gene expression machinery in the simple eukaryote *Saccharomyces cerevisiae* and its relationship to the human gene expression machinery. Enrollment restricted to graduate students; qualified undergraduates may enroll with approval of instructor. May be repeated for credit.

**280B. Chromatin Structure and Transcriptional Regulation (2 credits).**

Weekly seminar on structure and gene regulatory function of chromatin. Discusses research of participants and relevant scientific literature. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**280C. Mammalian Brain Development (2 credits).**

Seminar covers research into the development of the mammalian brain. Enrollment restricted to graduate students; undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**280D. RNA Processing (2 credits).**

A discussion of current research and literature concerning the regulation of precursor messenger RNA processing. Enrollment restricted to graduate students; qualified

undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**280F. Development of Vertebrate Neural Connections (2 credits).**

Intensive research seminar on molecular mechanisms by which neural connections are established during mouse development. Special focus on topographic maps and role of Eph receptors and ephrins in this process. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

**280H. Topics on Research into Chromatin and Transcription (2 credits).**

Seminar covering research into the effects of chromatin on transcription in yeast. Enrollment restricted to graduate students; undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**280I. Epigenetic Gene Silencing and Insulators (2 credits).**

Intensive course on molecular mechanisms by which insulator elements regulate epigenetic gene silencing. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

**280J. Structures of Macromolecular Complexes (2 credits).**

Focuses on structure and function of the spliceosome using electron microscopy and x-ray crystallography. Participants present results from their own research and relevant journal articles. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 20. May be repeated for credit.

**280K. Topics in Cell Cycle Research (2 credits).**

An intensive seminar focusing on current research on the molecular mechanisms that control cell division. Participants are required to present results of their own research or to review journal articles of interest. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor.

**280L. Topics on Neural Development (2 credits).**

Seminar covering research into the development of the embryonic nervous system. Enrollment restricted to graduate students. Enrollment limited to 12. May be repeated for credit.

**280N. Structure and Function of Ribosomes (2 credits).**

An intensive and advanced course focusing on the structure and function of ribosomes. Participants present research findings in an organized, critical fashion, in the context of current research literature in the ribosome field. Enrollment restricted to graduate students; qualified undergraduate students may enroll with permission of the instructor. Enrollment limited to 20. May be repeated for credit.

**280O. Topics in Bacterial Pathogenesis (2 credits).**

Intensive seminar focusing on mechanisms of bacterial pathogenesis of the ulcer-causing bacterium *Helicobacter pylori*. Participants are required to present results from their own research and relevant journal articles. (Also

offered as Environmental Toxicology 281O. Students cannot receive credit for both courses.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 20. May be repeated for credit.

**280Q. Cell Biology of Oocytes, Embryos, and Neurons (2 credits).**

Weekly seminar and round-table discussion about research problems and recent advances in molecular motor proteins, cytoskeletons, and the control of force-producing processes. Each participant reports recent advances in their field from current literature, their own primary research questions, current approaches to answering those questions, and their research progress. Undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**280R. Structure and Function of the Nuclear Pore Complex (2 credits).**

Intensive and advanced course focusing on structure and function of the nuclear pore complex. Participants present research findings in an organized critical fashion in the context of current research literature in the nucleocytoplasmic transport field. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**280S. Chromatin and RNA Regulation in *C. elegans* (2 credits).**

Intensive research seminar about regulators of chromatin organization; the composition and function of germ granules; and the roles of both levels of regulation in germline development in *C. elegans*. Participants present their research results and report on related journal articles. Enrollment restricted to graduate students; undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**280T. Molecular Biology of *Drosophila* Development (2 credits).**

An intensive seminar concerning the molecular genetics of *Drosophila*. Recent research is discussed weekly, with an emphasis on gene regulation and development. Students present their own research or critical reviews of recent articles at least once during the quarter. Enrollment restricted to graduate students. Qualified undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

**280U. Discussions on the Development of the *Drosophila* Embryo (2 credits).**

Involves a two-hour weekly meeting in which the students discuss topics concerning the cell cycle, early embryonic development, and the cytoskeleton. These discussions critically evaluate ongoing research in this area. Material is drawn from student research and recently published journal articles. Students are also expected to meet individually with the instructor two hours weekly. In addition to a three–five page research proposal, each student gives two one-hour oral presentations. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

**280Y. Activity-Dependent Synaptic Plasticity (2 credits).**

Research seminar covering the regulation of synaptic plasticity in the mammalian nervous system, focusing on how the activity regulates the structural and functional

dynamics of synapses. Enrollment restricted to graduate students; undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

### **291. Molecular, Cellular, and Developmental Biology Seminar (2 credits).**

Topics of current interest in molecular, cellular, and developmental biology are presented weekly by graduate students, faculty, and guest speakers. Enrollment restricted to graduate students. Enrollment limited to 60. May be repeated for credit.

### **292. MCD Seminar (no credit).**

Various topics by weekly guest speakers. Enrollment restricted to graduate students.

## **Biomolecular Engineering**

### **80G. Bioethics in the 21st Century: Science, Business, and Society.**

Serves science and non-science majors interested in bioethics. Guest speakers and instructors lead discussions of major ethical questions having arisen from research in genetics, medicine, and industries supported by this knowledge. (Also offered as Philosophy 80G. Students cannot receive credit for both courses.) (General Education Code(s): T6-Natural Sciences or Humanities and Arts.)

### **80H. The Human Genome.**

Course will focus on understanding human genes. Accessible to non-science majors. Will cover principles of human inheritance and techniques used in gene analysis. The evolutionary, social, ethical, and legal issues associated with knowledge of the human genome will be discussed. (Also offered as Biology: Molecular Cell & Dev 80H. Students cannot receive credit for both courses.) (General Education Code(s): T2-Natural Sciences.)

### **140. Bioinstrumentation.**

Introduction to theory, design, and application of bioinstrumentation in clinical, pharmaceutical, and biotechnology laboratories. Highly recommended for students planning careers in the biomolecular industries. Typical topics and demonstrations include thermocycler, polymerase chain reaction (PCR), pyrosequencing, fables nanofabrication, ion-sensitive measurements, microarray fabrication, and fluorescent-activated cell sorter (FACS). Prerequisite(s): course 5, or Biology 100, or Biochemistry and Molecular Biology 100A.

### **200. Research and Teaching in Bioinformatics (3 credits).**

Basic teaching techniques for teaching assistants, including responsibilities and rights of teaching assistants, resource materials, computer security, leading discussion or lab sessions, presentation techniques, maintaining class records, electronic handling of homework, and grading. Examines research and professional training, including use of library and online databases, technical typesetting, writing journal and conference papers, publishing in bioinformatics, giving talks in seminars and conferences, and ethical issues in science and engineering. Required for all teaching assistants. Enrollment restricted to graduate students.

### **205. Bioinformatics Models and Algorithms.**

Covers bioinformatics models and algorithms: the use of computational techniques to convert the masses of information from biochemical experiments (DNA sequencing, DNA chips, and other high-throughput experimental

methods) into useful information. Emphasis is on DNA and protein sequence alignment and analysis. Enrollment restricted to graduate students. Undergraduates may enroll with prerequisite(s): Computer Science 12B; and Computer Engineering 107 or Applied Math and Statistics 131; and Biology 20A; and concurrent enrollment in Biochemistry 100A.

### **210. Experimental Systems Biology.**

Topics include, but are not limited to, microarray production techniques, experimental strategies using microarrays, extraction and analysis of microarray data, DNA and protein arrays, SNP analysis, gene expression analysis, materials analysis, and advanced analysis of data using bioinformatic techniques. (Formerly *Application and Analysis of Microarrays*.) (Also offered as Biology: Molecular Cell & Dev 210. Students cannot receive credit for both courses.) Enrollment restricted to graduate students; undergraduates by permission of instructor.

### **225. Protein Function in Biology and Bioinformatics.**

Reviews functional roles of proteins and computational methods used to predict functional aspects of proteins. Focus is on molecular function and structure-function relationships. Wider-reaching notions of function (pathways, interaction networks) are considered peripherally, as the context in which molecular function occurs. Course includes lectures, (computational) lab work, and discussions of topical publications. Prerequisite(s): Biochemistry and Molecular Biology 100A (or equivalent knowledge) and courses 205 and 220, or by instructor's permission. Enrollment limited to 15.

### **280B. Seminar on Bioinformatics (2 credits).**

Weekly seminar series covering topics of current research in computational biology or bioinformatics. Current research work and literature in these areas are discussed in weekly meetings. Enrollment restricted to graduate students or permission of instructor. May be repeated for credit.

### **281B. HIV Vaccine Research (2 credits).**

Weekly seminar series covering topics of HIV vaccine research. Current research work and literature in this area discussed. Students lead some discussions and participate in all meetings. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 10. May be repeated for credit.

### **281G. Seminar on Protein Structure and Function (2 credits).**

Weekly seminar series covering topics of current computational and experimental research in protein structure prediction and design, structure-function relationships and protein evolution. Current research work and literature in these areas discussed. Students lead some discussions and participate in all meetings. (Formerly course 281R.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

### **281H. Seminar in Comparative Genomics (2 credits).**

Weekly seminar series covering topics of current computational and experimental research in comparative genomics. Current research work and literature in this area discussed. Students lead some discussions and participate in all meetings. Enrollment restricted to graduate students; qualified

undergraduates may enroll with permission of instructor. May be repeated for credit.

### **281K. Seminar on Protein Structure Prediction (2 credits).**

Weekly seminar series covering topics of current computational and experimental research in protein structure prediction. Current research work and literature in this area discussed. Students lead some discussions and participate in all meetings. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

### **281L. Seminar in Computational Genetics (2 credits).**

Weekly seminar series covering topics and experimental research in computational genetics. Current research work and literature in this area discussed. Students lead some discussions and participate in all meetings. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

### **281S. Seminar in Computational Functional Genomics (2 credits).**

Weekly seminar series covering topics of current computational and experimental research in computational functional genomics. Current research work and literature in this area discussed. Students lead some discussions and participate in all meetings. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

## **Chemistry and Biochemistry**

### **1A. General Chemistry.**

First term of an integrated study of general chemistry. Course 1A suitable for people who have a solid background in high school chemistry. Covers a range of topics including the atomic structure of matter; molecules; chemical reactions; acids and bases; gases; and equilibria in the gas and liquid phase. Lecture: 3-1/2 hours; discussion: 1-1/4 hours. Students expected to use algebra to solve problems. Prerequisite(s): high school level chemistry. (General Education Code(s): IN, Q.)

### **1C. General Chemistry.**

Third term of an integrated study of general chemistry. Coverage includes thermodynamics; chemical kinetics; oxidation-reduction and electrochemistry; liquids and solids; transition metals; and nuclear chemistry. Lecture: 3-1/2 hours; discussion: 1-1/4 hours. Prerequisite(s): course 1B. Concurrent enrollment in course 1N is required. (General Education Code(s): IN, Q.)

### **1N. General Chemistry Laboratory (2 credits).**

Laboratory sequence illustrating topics covered in courses 1B-1C, respectively, and important experimental techniques. Laboratory: 3 hours; lecture: 1-1/4 hours. Students are billed a materials fee. Course 1N offered in winter 2008 and spring 2008; 1N offered in spring 2008 and fall 2008. Prerequisite(s): course 1M. Concurrent enrollment in course 1C is required.

### **1P. Chemistry Essentials (3 credits).**

Introduction to basic concepts required for the Chemistry 1 series. This course is for students who have little background in high school chemistry or equivalent. Covers elementary topics including units, conversions, the mole, chemical reactions, and balancing. Enrollment limited to 90.

**108A. Organic Chemistry.**

An integrated study of fundamental organic chemistry, with emphasis on materials especially relevant to the biological sciences. Students with credit for course 112A cannot receive credit for course 108A; students with credit for 112B or 112C cannot receive credit for 108B. Lecture: 3-1/2 hours, discussion: 1-1/4 hours. Prerequisite(s): course 1C or 4B.

**108L. Organic Chemistry Laboratory (2 credits).**

Laboratory experience in organic chemistry associated with courses 108A-108B, respectively. Designed to introduce the student to the many techniques associated with organic chemistry while affording an opportunity to explore the concepts discussed in the lecture material. Laboratory: 4 hours, lecture: 1-1/4 hours. Students are billed a materials fee. Prerequisite(s): courses 1C/N and 108A or concurrent enrollment.

**112A. Organic Chemistry.**

An integrated study of fundamental organic chemistry, including principles, descriptive chemistry, synthetic methods, reaction mechanisms, and compounds of biological interest. These courses are coordinated with 112L-M-N respectively and are to be taken concurrently with them. Students with credit in course 108A can receive credit for courses 112B and 112C but not for 112A; students with credit in 108B cannot receive credit for 112B or 112C. Lecture: 3-1/2 hours; optional discussion section: 1-1/4 hours. Prerequisite(s): course 1C or 4B; and course 1N. Concurrent enrollment in course 112L is required. Enrollment limited to 80.

**112L. Organic Chemistry Laboratory (2 credits).**

Laboratory experience in organic chemistry and associated principles. Experiments involve the preparation, purification, characterization, and identification of organic compounds and make use of modern as well as classical techniques. These courses are coordinated with 112A-B-C respectively, and are to be taken concurrently with them. For courses 112L and 112M: lecture: 1-1/2 hours and laboratory: 4 hours; for course 112N: lecture: 1-1/4 hours and laboratory: 8 hours. Students are billed a materials fee. Prerequisite(s): courses 1C/N. Students should be concurrently enrolled in course 112A. Enrollment limited to 80.

**122. Principles of Instrumental Analysis.**

A laboratory course designed to develop familiarity with techniques and instrumentation used in analytical chemistry, emphasizing determination of trace inorganic species. Primary emphasis on applications utilizing the absorption or emission of electromagnetic radiation and on voltammetry. Topics include molecular UV-visible absorption and fluorescence spectrometry; atomic absorption, emission and fluorescence spectrometry; and various forms of voltammetry. Lecture: 2 hours; laboratory: 8 hours. Students are billed a materials fee. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, course 108B or 112C. (General Education Code(s): W.)

**143. Organic Chemical Structure and Reactions.**

Advanced topics such as the chemistry of terpenes, steroids, synthetic polymers, alkaloids, reactive intermediates, and reaction mechanisms are treated. Lecture: 4 hours. Prerequisite(s): course 108B or 112C.

**146A. Advanced Laboratory in Organic Chemistry (2 credits).**

Designed to expose students to advanced laboratory techniques in organic chemistry. Experiments carry a research-like format and cover the areas of natural products and reaction chemistry. Modern methods of organic analysis are emphasized including chromatographic methods and organic structure determination by spectroscopy. Laboratory: 8 hours. Students billed a materials fee. Prerequisite(s): courses 108B/M or 112C/N. Enrollment limited to 16.

**163A. Quantum Mechanics and Basic Spectroscopy.**

A detailed introduction to quantum theory and the application of wave mechanics to problems of atomic structure, bonding in molecules, and fundamentals of spectroscopy. Prerequisite(s): course 1C or 4B, Physics 5A-B-C or 6A-B-C and Mathematics 11C or 22 or 23B. Physics 6C can be taken concurrently.

**164A. Physical Chemistry Laboratory I: Data Analysis (2 credits).**

Introduction to data analysis and statistical treatment of errors for physical chemistry experiments. Emphasizes the use of computers for problem solving and data analysis of one required laboratory report. Lecture: 1 hour; laboratory: 4 hours. Prerequisite(s): course 1C or 4B; Physics 6A-B-C or 5A-B-C; Mathematics 11C or 22.

**200A. Advanced Biochemistry: Biophysical Methods.**

An introduction to the theory, principles, and practical application of biophysical methods to the study of biomolecules, especially proteins and nucleic acids. Emphasis on spectroscopic techniques. Topics include magnetic resonance, optical spectroscopy, fast reaction techniques, crystallography, and mass spectrometry.

**240A. Kinetics and Mechanisms of Organic Reactions (3 credits).**

Basic principles and methods of the kinetic study of reaction mechanisms are covered, including linear free energy relationships. Theories are examined concerning how reactions choose a mechanism.

**240E. Modern Synthetic Methods (3 credits).**

An advanced study designed to provide the background and insight to enable the student to compare and contrast new reagents and reactions with existing methods. Prerequisite(s): course 143.

**263. Quantum Mechanics.**

A rigorous introductory course: the Schrödinger equation, operator formalism, matrix mechanics, angular momentum, and spin. Perturbation and other approximate methods. Applications to atomic and molecular problems. Lecture: 3-1/2 hours. Prerequisite(s): courses 163A and Physics 114A-B. Offered in alternate academic years.

**269. Electrochemistry.**

Designed to introduce basic principles and applications of electrochemistry to students at upper undergraduate and

lower graduate levels in various fields including analytical, physical, and materials chemistry. Enrollment restricted to seniors and graduate students.

**274. Proseminar in Synthetic and Polymer Chemistry.**

Weekly meetings devoted to study of synthetic organic chemistry and controlled polymer design for applications in nanotechnology. Topics drawn from current literature and research interests of participants. May be repeated for credit.

**275. Proseminar in Biological Inorganic Chemistry.**

Weekly meetings devoted to biological inorganic chemistry and biochemistry. Topics are drawn from current literature. Papers and reviews are discussed, and participants give short seminars on their research interests. May be repeated for credit.

**282. Proseminar: Synthetic Methods.**

Weekly meetings devoted to the study of asymmetric and/or enantio-selective synthesis of optically active organic compounds of biological and medicinal significance. Topics drawn from the current literature and the research interests of the participants. May be repeated for credit.

**283. Proseminar in Physical Organic Chemistry.**

Weekly meetings devoted to the study of physical and mechanistic organic chemistry. Topics drawn from the current literature and the research experiences of the participants. May be repeated for credit.

**284. Proseminar in Synthetic Organic Chemistry.**

Weekly meetings devoted to the study of synthetic organic chemistry. Topics drawn from the current literature and the research interests of the participants. May be repeated for credit.

**285. Proseminar: Photobiochemistry and Photobiology.**

A detailed study of molecular mechanisms of light energy conversion and light-signal transduction processes in biological systems. Student participation in critical discussion of current literature examples are emphasized. Two-hour lecture and two-hour seminar weekly. Enrollment limited to 8. May be repeated for credit.

**286. Proseminar in Natural Products Chemistry.**

Weekly meetings devoted to the study of natural products. Topics drawn from the current literature and research interests of the participants. May be repeated for credit.

**288. Proseminar in Bioinorganic Chemistry.**

Weekly meetings devoted to inorganic and bioinorganic research. Topics are drawn from current literature. Papers and reviews are discussed. Participants also give short seminars on topics of their research interests. May be repeated for credit.

**291A. Organic Chemistry Research Seminar.**

Open to chemistry graduate students interested in organic chemistry. Weekly meetings are held to hear both local and external speakers discuss their work. Enrollment restricted to graduate students. May be repeated for credit.

**291B. Biochemistry and Molecular Biology Research Seminar.**

A weekly seminar series covering topics on the frontiers of biochemistry and molecular biology. The speakers include experts in these fields from other institutions. Enrollment restricted to graduate students. May be repeated for credit.

**291C. Inorganic Chemistry Research Seminar.**

For those interested in following the recent developments in the various areas of inorganic chemistry. External speakers; weekly discussion based on personal research or recent literature, led by the inorganic chemistry faculty, postdoctoral fellows, and students. Enrollment restricted to graduate students. May be repeated for credit.

**291D. Physical Chemistry Research Seminar.**

A weekly seminar series covering topics of current research in physical chemistry. Weekly meetings are held to hear both local and external speakers discuss their work. Enrollment restricted to graduate students. May be repeated for credit.

**292. Seminar (2 credits).**

Enrollment restrictions: graduate standing or approval of the graduate adviser.

**296. Teaching Chemistry (3 credits).**

University-level pedagogy in chemistry; examines the role of preparation, assessment, and feedback in teaching chemistry discussion and laboratory sections. Effective classroom techniques and organizational strategies discussed; oral presentations analyzed critically. Required of entering chemistry graduate students.

**Chinese**

**1. Instruction in the Chinese (Mandarin)**

**Language.**

Instruction in elementary spoken and written Chinese (Mandarin), beginning with the sounds of Chinese and their representation in the pinyin romanization system. Conversation, structural analysis, and an introduction to character texts. Elementary sequence (1-2-3) begins only in fall quarter. Students interested in learning Chinese who are uncertain about where they should enter the sequence should meet with the instructor, prior to the first class meeting.

**4. Intermediate Chinese (Mandarin).**

Instruction in intermediate spoken and written Chinese (Mandarin). Conversation, composition, and the reading of modern texts. Intermediate sequence (4-5-6) begins only in fall quarter. Students interested in improving their Chinese who are uncertain about where they should enter the sequence should meet with the instructor, prior to the first class meeting. Prerequisite(s): course 3, or equivalent. (General Education Code(s): IH.)

**50. Preadvanced Chinese.**

Places additional emphasis in the areas of specialized vocabulary, sentence structure, and translation as well as conversational and compositional skills in preparation for advanced courses. Offered fall quarter only. Students interested in this course who have not taken the prerequisite should meet with the instructor prior to the first class meeting. Prerequisite(s): course 6, or placement by examination. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): IH.)

**Community Studies**

**70. Video Laboratory (2 credits).**

Trains students in the techniques of documentary film making. Through lectures, demonstrations, hands-on instruction, and review of students' work in progress, students learn the fundamentals of film/video pre-production, production, and post-production skills. Concurrent enrollment in course 80L required. Enrollment limited to 25.

**71. Basic Photography Laboratory (2 credits).**

Provides students with photography skills. Through lecture, demonstration, hands-on experience, and field sessions, students acquire technical and aesthetic training in basic darkroom skills, methods of photographing people, an introduction to alternative processes, and presentation of finished photographs. Concurrent enrollment in course 80L required. Enrollment limited to 20.

**72. Audio Laboratory (2 credits).**

Trains students in the fundamental techniques of documentary audio production. Through lectures, documentary examples, demonstrations, hands-on instruction, and consultation with students regarding their work in progress, students gain the skills they need to produce their own audio documentaries. Concurrent enrollment in course 80L required. Enrollment limited to 20.

**73. Digital Photo Lab (2 credits).**

Provides introduction to digital photography and social documentary photographic techniques. Through lecture, demonstration, hands-on experience and field sessions, students learn camera operation, how to photograph people, photographic aesthetics, Adobe Photoshop, and arranging photos in essay form. Concurrent enrollment in CMMU 80L is required. Enrollment limited to 15.

**80B. Civil Rights Movement: Grassroots Change and American Society.**

The civil rights movement of the 1950s–60s was one of the most important grassroots social movements in American history. Course examines this movement, focusing especially on the experiences of rank-and-file participants and on its effects on American society. (General Education Code(s): T3-Social Sciences, E.)

**80L. Social Documentation.**

Examines works from various media recognized as being drawn from "real life." Through film, photography, oral history, and other examples, develops critical understanding of social documentation as a process with implicit theories and conventions. Students create beginning documentaries in production collectives. (General Education Code(s): T3-Social Sciences.)

**100J. Immigration and Social Justice.**

Introduction to contemporary U.S. immigration patterns and policies, to major problems facing immigrant communities, and to theory and practice of immigrants and their allies in confronting these problems and working for social justice. Interview only: admission determined at first class meeting. Enrollment limited to sophomores and juniors. Enrollment limited to 25. (General Education Code(s): IS, E.)

**100M. Health Care Inequalities.**

Examines system and non-system that is American health care with special attention to inequalities in access, financing, and quality of care. Covers concepts such as equality, fairness, and need as well as community organizing and

community building for health. Interview only: admission determined at first class meeting. Enrollment limited to sophomores and juniors. Enrollment limited to 25. (General Education Code(s): IS.)

**114. Whiteness, Racism, and Anti-Racism.**

Examines the social, cultural, institutional, and personal ways that white privilege and racial domination are constructed, maintained, and reproduced in U.S. society. Goal is to reveal the "hidden" quality of whiteness and illuminate effective strategies for anti-racist activism. Enrollment limited to 25. (General Education Code(s): E.)

**119. Banana Slug News (2 credits).**

Introduction to television news production in which students become familiar with the tools of the medium and the process involved in the creation of a completed television news program through basic studio exercises and Electronic News Gathering (ENG). Enrollment limited to 15. May be repeated for credit.

**122. Experiments in Community: Utopia and Communalism in Post-War California.**

Traces history and flowering of urban and rural communal experiments in postwar California. Critically examines the counterculture—both alternative and revolutionary wings—and its legacy of, for example, sexual politics, childrearing, art and culture, foodways, environmentalism, architecture, and anticapitalism. (Formerly *Experiments in Community: History of Communes in California.*)

**130. Juvenile Justice.**

Students are placed in a community-based program, at Juvenile Hall or with a deputy probation officer, to intern 8-10 hours each week. Includes a weekly seminar to discuss readings and presentations on the juvenile-justice system and internship experiences. Background checks and fingerprinting are required to participate in this course. A two-quarter commitment is preferred. (Formerly *New Vistas in Juvenile Justice.*) Enrollment limited to 20. May be repeated for credit.

**145. Politics of Obesity.**

Critically examines the construction and representation of the so-called epidemic of obesity, the major explanations for the rise in obesity and the interventions they beget, and the implications of naming obesity as a problem.

**Computer Engineering**

**1. Hands-On Computer Engineering (2 credits).**

Hands-on introduction to computer engineering practice and research, including computer hardware, robotics, and embedded systems. Encourages interaction with UCSC's School of Engineering community. Designed for students without previous background in computer engineering. Enrollment restricted to first-year students and sophomores. Enrollment limited to 20.

**3. Personal Computer Concepts: Software and Hardware.**

Provides an introduction to computers. Personal computing is emphasized, and students are introduced to word processing, spreadsheets, database management, graphics, and programming. Covers fundamentals of computing and current and future uses of computer technology, PC hardware, Windows operating system, applications software, networking and the Internet, and developments in the computer industry. Designed for students with little

or no experience using computers. Students cannot receive credit for this course and Computer Science 2. (General Education Code(s): IN.)

### **8. Robot Automation: Intelligence through Feedback Control.**

Introduction to dynamical systems, feedback control, and robotics. Fundamental concepts in dynamical systems, modeling, stability analysis, robustness to uncertainty, feedback as it occurs naturally, and the design of feedback-control laws to engineer desirable static and dynamic response. Course includes an introduction to MATLAB and programming in MATLAB. Enrollment restricted to first-year students and sophomores. (General Education Code(s): IN, Q.)

### **12. Computer Systems and Assembly Language.**

Introduction to computer systems and assembly language and how computers compute in hardware and software. Topics include digital logic, number systems, data structures, compiling/assembly process, basics of system software, and computer architecture. May include C language. Prerequisite(s): course 3 or 8, or Computer Science 10 or 12A or 60G or 60N, or Biomolecular Engineering 60, or suitable programming experience; previous or concurrent enrollment in course 12L required. (General Education Code(s): IN, Q.)

### **12L. Computer Systems and Assembly Language Laboratory (2 credits).**

Laboratory sequence in assembly language programming. The basics of logic design, both RISC and microcontroller programming. May include C language programming. Two two-hour laboratories per week. Prerequisite(s): course 3 or 8, or Computer Science 10 or 12A or 60G or 60N, or Biomolecular Engineering 60, or suitable programming experience; previous or concurrent enrollment in course 12 required.

### **16. Applied Discrete Mathematics.**

Introduction to applications of discrete mathematical systems. Topics include sets, functions, relations, graphs, trees, switching algebra, first order predicate calculus, mathematical induction, permutations, combinations, summation, and recurrences. Examples drawn from computer science and computer engineering. Prerequisite(s): eligibility to enroll in Mathematics 19A (completion of Mathematics 2B or 3 or Mathematics Placement Exam score of 40 or higher) or completion of Mathematics 19A or 11A. (General Education Code(s): Q.)

### **80N. Introduction to Networking and the Internet.**

Introduction to the evolution, technological basis, and services of the Internet, with descriptions of its underlying communications structure, routing algorithms, peer-to-peer hierarchy, reliability, and packet switching. Network security, mail, multimedia and data compression issues, HTML, and digital images. Students who have completed course 150 cannot receive credit for this course. (General Education Code(s): T2-Natural Sciences.)

### **107. Mathematical Methods of Systems Analysis: Stochastic.**

Introduction to fundamental tools of stochastic analysis. Probability, conditional probability, Bayes Theorem, random variables, independence, Poisson processes, Bernoulli trials, and Markov chains. Instructor's choice of additional topics, most likely drawn from confidence measures, difference equations, transform methods,

stability issues, applications to reliability, queues, and hidden Markov models. Students cannot receive credit for this course and Applied Mathematics and Statistics 131. Prerequisite(s): course 16 or 16H and Mathematics 22 or 23A.

### **121. Microprocessor System Design.**

The design and use of microprocessor-based systems. Covers microprocessor and microcontroller architecture, programming techniques, bus and memory organization, DMA, timing issues, interrupts, peripheral devices, serial and parallel communication, and interfacing to analog and digital systems. Prerequisite(s): courses 12/L and 100/L; Electrical Engineering 70/L; previous or concurrent enrollment in course 121L required. Enrollment limited to 40.

### **121L. Microprocessor System Design Laboratory (2 credits).**

Laboratory sequence illustrating topics covered in course 121. One two-hour laboratory session per week. Students design, build, program, debug, document, and demonstrate a microprocessor-based system. Students are billed a materials fee. Prerequisite(s): courses 12C/L and 100/L; Electrical Engineering 70/L; previous or concurrent enrollment in course 121 required. Enrollment limited to 40.

### **123A. Engineering Design Project I.**

First of a two-course sequence that is the culmination of the engineering program. Students apply knowledge and skills gained in elective track to complete a major design project. Students complete research, specification, planning, and procurement for a substantial project. Includes technical discussions, design reviews, and formal presentations; engineering design cycle, engineering teams, and professional practices. Formal technical specification of the approved project is presented to faculty. Prerequisite(s): Electrical Engineering 171 or Computer Engineering 121; previous or concurrent enrollment in Computer Engineering 185; permission of department and instructor. Students are billed a materials fee. (Also offered as Biomolecular Engineering 123A. Students cannot receive credit for both courses.)

### **125. Logic Design with Verilog.**

Verilog digital logic design with emphasis on ASIC and FPGA design. Students design and verify large-scale systems. Assignments and project use the Verilog Hardware Description Language with emphasis on verification and high-frequency ASIC/FPGA targets. Prerequisite(s): courses 100 and 100L; and electrical engineering 70 and 70L. Concurrent enrollment in course 125L required. Enrollment limited to 40.

### **125L. Logic Design with Verilog Laboratory (2 credits).**

Laboratory sequence illustrating topics covered in course 125. One two-hour laboratory session per week. Students are billed a materials fee. Prerequisite(s): courses 100 and 100L; electrical engineering 70 and 70L. Concurrent enrollment in course 125 is required. Enrollment limited to 40.

### **131. Human-Computer Interaction.**

Theory and hands-on practice to understand what makes user interfaces usable and accessible to diverse individuals. Covers human senses and memory and their design implications, requirement solicitation, user-centered design and prototyping techniques, and expert and user evaluations. Interdisciplinary course for social science and

engineering majors. Students cannot receive credit for this course and Computer Engineering 231 or Psychology 223. (Also offered as Psychology 131. Students cannot receive credit for both courses.) Prerequisite(s): Computer Science 12B or Psychology 3.

### **174. Introduction to EDA Tools for PCB Design (3 credits).**

Focus on EDA tools for design of printed-circuit boards. Elements of design flow covered: schematic capture and simulation to final PCB layout. Final project is required. Students are billed a materials fee. Prerequisite(s): Electrical Engineering 70 or consent of instructor.

### **185. Technical Writing for Computer Engineers.**

Writing by engineers and computer scientists, not to general audiences, but to engineers, engineering managers, and technical writers. Exercises include job application and resume, in-code documentation, algorithm description, naive-user documentation, library puzzle, survey article, proposal, progress report, formal technical report, and oral presentation. Offered in alternate quarters. Prerequisite(s): satisfaction of Entry Level Writing and Composition requirements; Computer Science 12B or 13H or Computer Engineering 12. Enrollment restricted to School of Engineering majors. Enrollment limited to 60. (General Education Code(s): W.)

### **200. Research and Teaching in Computer Science and Engineering (3 credits).**

Basic teaching techniques for teaching assistants including responsibilities and rights of teaching assistants, resource materials, computer security, leading discussion or lab sessions, presentation techniques, maintaining class records, electronic handling of homework, and grading. Examines research and professional training, including use of the library and online databases, technical typesetting, writing journal and conference papers, publishing in computer science and computer engineering, giving talks in seminars and conferences, and ethical issues in science and engineering. Required for all T.A.s. Enrollment restricted to graduate students.

### **202. Computer Architecture.**

Provides a thorough and fundamental treatment of the art of computer architecture. Topics include concepts of von Neumann architectures, methods of evaluating CPU performance, instruction-set design and examples, compiler issues, instruction pipelining, superscalar processors, methods for reduction of branch penalty, memory hierarchies, I/O systems, floating-point arithmetic, and current issues in parallel processing. Prerequisite(s): course 110 or 112. Enrollment restricted to graduate students; undergraduates may enroll if they have completed course 110 or 112 and with consent of instructor. Enrollment limited to 30.

### **222. VLSI Digital System Design.**

Introduction to Very Large Scale Integrated (VLSI) design, focusing on custom integrated circuits. Topics include logic families, FETs, interconnect models, simulation, and RC timing. Course covers the design flow from logic design to layout, with a focus on high performance and low power. Students should be familiar with RC circuit analysis. Enrollment restricted to seniors and graduate students. Undergraduates may enroll with permission of instructor.

**229. Field-Programmable Gate Arrays Computer-Assisted Design.**

Design methods for Field-Programmable Gate Arrays (FPGAs), including algorithms for technology mapping, routability estimation, placement, and routing. The relationship between FPGA architectures and their computer-aided design tools. Course project involves the modification and analysis of an FPGA tool. Enrollment restricted to graduate students or by consent of instructor. Courses 100, 125, 126, 222, 225, or other digital design experience recommended. Enrollment limited to 20.

**231. Human-Computer Interaction.**

Theory and hands-on practice to understand what makes user interfaces usable and accessible to diverse individuals. Covers human senses and memory and their design implications, requirement solicitation, user-centered design and prototyping techniques, and expert and user evaluations. Individual research project. Interdisciplinary course for social science and engineering graduate students. Students cannot receive credit for this course and course 131. (Also offered as Psychology 223. Students cannot receive credit for both courses.) Enrollment restricted to graduate students.

**240. Introduction to Linear Dynamical Systems.**

Introduction to applied linear algebra and linear dynamical systems with applications to circuits, signal processing, communications, and control systems. Topics include the following: Least-squares approximations of over-determined equations and least-norm solutions of underdetermined equations. Symmetric matrices, matrix norm and singular value decomposition. Eigenvalues, left and right eigenvectors, and dynamical interpretation. Matrix exponential, stability, and asymptotic behavior. Multi-input multi-output systems, impulse and step matrices; convolution and transfer matrix descriptions. Control, reachability, state transfer, and least-norm inputs. Observability and least-squares state estimation. Enrollment restricted to graduate students; undergraduates may enroll if they have completed Electrical Engineering 103 and Applied Math and Statistics 147.

**250. Multimedia Systems.**

Study of state-of-the-art technology for networked multimedia systems. Topics include audio, image, and video acquisition and compression standards (JPEG, MPEG, and ITU families); networking for multimedia; and digital television. Proficiency in C or C++ required. Prerequisite(s): Enrollment restricted to graduate students.

**252A. Computer Networks.**

Issues resulting from organizing communication among autonomous computers. Includes network models and switching techniques; medium access control protocols and local area networks; error control and retransmission strategies; routing algorithms and protocols; congestion control mechanisms and end-to-end protocols; application-level protocols; and application of concepts to wireless and wireline networks, with emphasis on the Internet. Enrollment restricted to graduate students.

**256. Design Project in Computer Networks.**

Students develop a working implementation of a network protocol with the goal of obtaining hands-on experience in implementing real-world network protocols. Prerequisite(s): course 252A; enrollment restricted to graduate students.

**280C. Seminar on Control (2 credits).**

Weekly seminar series covering topics of current research in theory and application of control to engineering systems. Current research work and literature in these areas discussed. Enrollment restricted to graduate students; undergraduates may enroll with permission of instructor. May be repeated for credit.

**280G. VLSI/CAD Seminar (2 credits).**

Weekly seminar on advanced topics in VLSI and computer-aided design (CAD). Students present and discuss modern issues in semiconductor design, fabrication, and CAD. Frequent guest speakers present pertinent results from industry and academia. Enrollment limited to 20. May be repeated for credit.

**280N. Seminar on Networks (2 credits).**

Weekly seminar series covering topics of current research in networks and networked systems. Current research work and literature in these areas are discussed. Prerequisite(s): permission of instructor. Enrollment restricted to graduate students. May be repeated for credit.

**280P. Seminar on Parallel Processing (2 credits).**

Weekly seminar series covering topics of current research in parallel systems, architectures, and algorithms. Current research work and literature in these areas are discussed. Enrollment restricted to graduate students. Enrollment limited to 20. May be repeated for credit.

**280V. Seminar on Computer Vision (2 credits).**

Weekly graduate-level seminar series discussing advanced topics in computer vision and image analysis. Current research and literature presented during each meeting. Enrollment limited to 20. May be repeated for credit.

**Computer Science**

**2. Computer Literacy.**

Introduction to how computers work and how to use them. Topics covered include network information systems, text editors, formatting, file and directory system, spreadsheets and databases. Computers as symbol manipulation devices. Introduction to programming concepts and computer languages. Impact of computers on society. Designed for students with little or no experience using computers. Preference is given to students who have not taken other computer engineering or computer science courses. Students cannot receive credit for this course and Computer Engineering 3. (General Education Code(s): IN.)

**5P. Introduction to Programming in Python.**

Introduction to programming for engineering or science students who have no prior programming experience. Students learn programming and documentation skills, as well as algorithmic problem-solving and programming methodologies. Introduces students to computers, programming tools, and editors. Students write medium-sized programs to solve web-based and scientific problems. This course and course 5J cover largely the same material, but use different programming languages. (General Education Code(s): IN.)

**10. Introduction to Computer Science.**

An overview of the theory, foundations, and practice of computer science with emphasis on what computers can and cannot do, now and in the future. Topics include algorithms and data, correctness and efficiency of algorithms, hardware, programming languages, limitations of computation, applications, and social issues. No programming skills are required as a prerequisite. Major concepts and open problems in computer science are presented without reliance on sophisticated mathematical tools. (General Education Code(s): IN.)

**12B. Introduction to Data Structures.**

Teaches students to implement common data structures and the algorithms associated with each data structure, through progressively difficult exercises. Topics include big "O" notation; pointers, recursion (induction), and dynamic allocation; linked lists and list processing; stacks, queues, binary trees and binary search trees; simple sorting techniques and simple search techniques. Students will gain a working knowledge of the elements of the Java and C programming languages. Prior experience with Unix is assumed. Prerequisite(s): course 12A. Concurrent enrollment in course 12M required. Enrollment limited to 150. (General Education Code(s): IN.)

**12M. Data Structures Laboratory (2 credits).**

Complements course 12B, gaining additional competence with a number of important software development tools, languages, and techniques. Included are advanced Unix features and utilities such as grep, find, diff, the shell, and pipes; C programs utilizing I/O, arrays, pointers, and structures; a scripting language to perform simple text and file manipulation; and the make utility. Prerequisite(s): courses 12A and 12L. Concurrent enrollment in course 12B required.

**80V. Creating Virtual Worlds on the Web.**

Project-oriented course about creating and publishing interactive 3D content on the web. Focuses on the creation of static and dynamic objects, such as characters, terrain, accessories, and works of art. Also covers inclusion of animation and sound effects with these objects. The objects created can be used in a stand-alone setting (e.g., a 3D document) or incorporated into existing virtual worlds (e.g., as part of a level design in a computer game or assets in massively multiplayer online games). Uses 3D authoring tools (pending availability of resources) like VRML, Second Life, Alice, and/or Acrobat 3D. (Formerly *VRML 3D Worlds on the Web*.) (General Education Code(s): T2-Natural Sciences.)

**101. Algorithms and Abstract Data Types.**

Studies basic algorithms and their relationships to common abstract data types. Covers the notions of abstract data types and the distinction between an abstract data type and an implementation of that data type. The complexity analysis of common algorithms using asymptotic (big "O") notation is emphasized. Topics include sorting and searching techniques, basic graph algorithms, and algorithm design techniques. Abstract data types covered include priority queues, dictionaries, disjoint sets, heaps, balanced trees, and hashing. Familiarity with C, Java, and Unix is assumed. Prerequisite(s): course 12B or 13H, Computer Engineering 16 or 16H, Mathematics 19B, and one course from the following: Mathematics 21, 22, 23A, 24, or Applied Mathematics and Statistics 27. Enrollment restricted to School of Engineering majors.

**104A. Fundamentals of Compiler Design I.**

An introduction to the basic techniques used in compiler design. Topics include compiler structure, symbol tables, regular expressions and languages, finite automata, lexical analysis, context-free languages, LL(1), recursive descent, LALR(1), and LR(1) parsing; and attribute grammars as a model of syntax-directed translation. Students use compiler building tools to construct a working compiler. Prerequisite(s): course 101 and Computer Engineering 12 and 12L.

**111. Introduction to Operating Systems.**

Fundamental principles of operating systems: process synchronization, deadlocks, memory management, resource allocation, scheduling, storage systems, and study of several operating systems. A major programming project will be required. Prerequisite(s): course 101, and Computer Engineering 110 or Computer Engineering 112.

**130. Computational Models.**

Various representations for regular languages, context-free grammars, normal forms, parsing, pushdown automata, pumping lemmas, Turing machines, the Church-Turing thesis. Prerequisite(s): course 101.

**146. Game AI.**

Course provides a comprehensive introduction to the use of artificial intelligence (AI) in computer games. Building on fundamental principles of AI, course explains how to create non-player characters (NPCs) with progressively more sophisticated capabilities. Prerequisite(s): course 101; familiarity with C++. Enrollment restricted to sophomores, juniors, seniors, and graduate students. Enrollment limited to 50.

**160. Introduction to Computer Graphics.**

Introduces different techniques of modeling, transformation, and rendering to obtain computer generated imagery. Topics include 2D and 3D graphical primitives, line drawings, curves and surface modeling, projections, matrix composition, hidden surface removal, and shading algorithms. Several intensive programming assignments on bit-mapped raster scan displays and a major programming project are required. Prerequisite(s): course 101 and Mathematics 21 or Applied Mathematics and Statistics 27. Concurrent enrollment in course 160L required. Enrollment limited to 50.

**160L. Introduction to Computer Graphics Laboratory (2 credits).**

Complements course 160, gaining additional competence with a number of important software development tools, graphics libraries, and graphical user interfaces. Included are OpenGL program, utilizing rubberbanding, picking, trackballing, display lists, double buffering, lighting, shading, materials and textures; and FLTK program, utilizing sliders, buttons, and dialog boxes. Prerequisite(s): course 101 and Mathematics 21 or Applied Math 27. Concurrent enrollment in course 160 required. Enrollment restricted to all engineering majors. Enrollment limited to 50.

**170. Game Design Studio I.**

First of a three-course capstone sequence for the computer game design program. Students work in teams to develop a comprehensive game design for a substantial computer game, including detailed storyline, level design, artistic approach, implementation technologies, and art-asset pipeline. Emphasis placed on creating novel, artistic game design concepts. Includes design reviews and formal presentations. Companion lectures cover advanced topics

in game design, game programming, and software project management. Enrollment restricted to senior computer game design majors. Enrollment limited to 50.

**182. Introduction to Database Management Systems.**

Concepts, approaches, tools, and methodology of database design. Topics include the entity-relationship model; the relational data model; normal forms; commercial languages such as SQL (SQL constraints, SQL triggers, and update languages); query-by-example (QBE); XML data model, and XML query language (XQuery); as well as relational database-management support for XML and object-relational features in database-management systems. Involves a database -application development project. Prerequisite(s): course 12B.

**191. Computer Science and Technology Seminar (2 credits).**

Weekly talks by industry experts, university researchers, field practitioners, and video presentations provide an in-depth exposure to a specific or a broad area of computer science and technology. Topics include emerging ideas, opportunities, challenges, and future of the industry. May be repeated for credit.

**200. Research and Teaching in Computer Science and Engineering (3 credits).**

Basic teaching techniques for teaching assistants, including responsibilities and rights of teaching assistants, resource materials, computer security, leading discussion or lab sessions, presentation techniques, maintaining class records, electronic handling of homework, and grading. The course examines research and professional training, including use of the library and online databases, technical typesetting, writing journal and conference papers, publishing in computer science and computer engineering, giving talks in seminars and conferences, and ethical issues in science and engineering. Required for all teaching assistants. Enrollment restricted to graduate students.

**201. Analysis of Algorithms.**

Rigorous analysis of the time and space requirements of important algorithms, including worst case, average case, and amortized analysis. Techniques include order-notation, recurrence relations, information-theoretic lower bounds, adversary arguments. Analysis of the key data structures: trees, hash tables, balanced tree schemes, priority queues, Fibonacci and binomial heaps. Algorithmic paradigms such as divide and conquer, dynamic programming, union-find with path compression, augmenting paths. Selected advanced algorithms. Introduction to NP-completeness. Enrollment restricted to graduate students; undergraduate students may enroll in this course if they have completed either course 102 or Computer Engineering 177 and have the consent of the instructor. ,

**217. Logic in Computer Science.**

The applications and uses of formal systems to computer science. Covers the syntax and semantics of propositional logic and first-order logic, normal forms, soundness and completeness theorems, Herbrand's theorem, unification and resolution, foundations of logic programming, automated theorem proving. Other topics may include deductive databases, database query languages, nonmonotonic reasoning. Enrollment restricted to graduate students. Offered in alternate academic years.

**240. Artificial Intelligence.**

Prepares students for doing research in artificial intelligence. Major topics covered are search and heuristics, knowledge representation, planning, deduction and inference, reinforcement learning, associative pattern retrieval, and adaptive search. Discussion includes current research issues in AI problem-solving methods. Individualized projects. Undergraduates may enroll in this course if they have completed course 140. Enrollment limited to 30.

**244. Artificial Intelligence in Games.**

Artificial intelligence has long used game-playing as a metric for progress. Key algorithms such as alpha-beta and HPA search studied. Computer algorithms for backgammon, poker, and chess examined. There will be individualized projects. Prerequisite(s): course 201; and course 211 or 240 or 242. Enrollment limited to 20.

**277. Principles of Database Systems.**

Advanced course on principles of database systems. Main topics include overview of the relational data model and relational query languages; recursive queries, datalog, and fixed-points; query processing and optimization; database design, dependencies, normal forms, and the chase procedure. Additional topics may include information integration, complex objects, semistructured data, and XML. (Formerly *Database Systems I*.) Prerequisite(s): course 180 (or equivalent) or consent of instructor. Enrollment restricted to graduate students. Enrollment limited to 20. Offered in alternate academic years.

**280S. Seminar on Computer Systems (2 credits).**

Weekly seminar series covering topics of current research in computer systems. Enrollment by permission of instructor. Enrollment limited to 30. May be repeated for credit.

**290G. Topics in Software Engineering.**

Research seminar on current topics in software engineering. Topics vary from year to year depending on the current research of the instructor(s) and interests of students. Students read technical papers from relevant journals and conference proceedings. Synthesis and understanding of materials is demonstrated by a required research project. Prerequisite(s): Computer Engineering 276 recommended. Enrollment restricted to graduate students; undergraduates may enroll with permission of instructor. Enrollment limited to 35. May be repeated for credit.

**280X. Expressive AI (2 credits).**

Weekly seminar covering topics of current research in artificial intelligence applied to interactive art and entertainment, including computer games. Enrollment restricted to graduate students. Enrollment limited to 30. May be repeated for credit.

**290S. Advanced Topics in Computer Systems.**

Focuses on current research topics in computer systems. Topics vary from year to year depending on the current research of the instructor(s) and the interests of the students. Students read technical papers from current journals and conference proceedings, and present class lectures. A research project is required. Prerequisite(s): course 221 recommended. Enrollment restricted to graduate students; qualified undergraduates may enroll with instructor's consent. May be repeated for credit.

**Digital Arts and New Media**

**201. Recent Methods and Approaches to Digital Arts and Culture.**

Students examine methods and approaches to research and writing in Digital Media Art and Culture, and explore key theories concerning digital media and cultures. The course may focus on the interaction between digital technologies and socio/cultural formations. Enrollment restricted to graduate students. Upper-division undergraduates may enroll with permission of instructor.

**202. Genealogies and Theories of Digital Arts and Culture.**

Provides examination of a particular theoretical and/or historical premise related to issues of media, art, and mediatization, as a means of teaching a common approach to the construction of genealogies within digital art and culture. Enrollment restricted to graduate students. Upper-division undergraduates may enroll with permission of instructor. Enrollment limited to 15.

**210. Project Design Studio.**

Students work on the design of individual projects by developing project proposals, budgets, “proof of concept” design documents and/or prototypes and exploring tools, technologies, programming languages, hardware, software, and electronics techniques relevant to their projects. Enrollment restricted to graduate students. Enrollment limited to 18.

**212. Thesis Proposal (no credit).**

Second-year DANM students work on the development and completion of their thesis project proposal and abstract under the supervision of the program director and their thesis committees. Enrollment restricted to second-year DANM students. Enrollment limited to 18.

**219. Introduction to Electronics for Artmaking (3 credits).**

Series of workshops serve as introduction to electronic devices used in artmaking, providing hands-on experience with sensors, motors, switches, gears, lights, simple circuits, microprocessors, and hardware store devices to create kinetic and interactive works of art. Students are billed a materials fee. Enrollment restricted to graduate students. Upper-division undergraduates may enroll with permission of instructor. Enrollment limited to 18.

**250B. Collaborative Research Project Groups.**

A three-quarter collaborative research project group in one of three focus areas that represent the current research of DANM faculty: Participatory Culture, Mechatronics, and Performative Technology. Students and faculty engage in research collaborations resulting in publications and exhibitions. Enrollment restricted to graduate students. Enrollment limited to 8. May be repeated for credit.

**Earth and Planetary Sciences**

**5. California Geology.**

An introduction to physical geology emphasizing the minerals, rocks, volcanoes, mountains, faults, and earthquakes of California. In-class field trips to study the caves, rocks, and landforms of the campus and the Monterey Bay area. Discussion-1 hour. Concurrent enrollment in 5L required for majors and minors. (General Education Code(s): IN.)

**5L. California Geology Laboratory (1 credit).**

Laboratory sequence illustrating topics covered in course 5 with particular emphasis on rock and mineral identification and map interpretation. Field trip. Laboratory three hours. Students are billed a materials fee.

**6. Concepts in Environmentalism.**

Learn scientific concepts required to be an informed environmentalist. Topics include urban smog; water resources and pollution; waste treatment; acid rain; global climate change; fossil fuel, nuclear, and renewable energy; overpopulation; and how an individual can minimize his or her environmental impact. Offered in alternate academic years. (General Education Code(s): IN.)

**7. The History of Life.**

An examination of the major events in the history of life, from the origin of life approximately four billion years ago, to the wave of extinctions that has decimated plants and animals around the globe over the past 30,000 years. Offered in alternate academic years. (General Education Code(s): IN.)

**80A. Earth Catastrophes.**

The role of catastrophic processes in shaping Earth and the environment in which we live. The physical processes causing earthquakes, volcanic eruptions, tsunamis, floods, windstorms, landslides, and meteorite impacts will be described, along with the role played by these rapid processes in the geological and biological evolution of the planet. Interdisciplinary approaches to understanding these phenomena will be discussed. The entire time scale from formation of the universe to the present Earth system will be considered. (General Education Code(s): T2-Natural Sciences.)

**101. The Fossil Record.**

An introduction to paleobiology; the use of fossil evidence to pose and solve evolutionary and geologic questions. Prerequisite(s): course 10 or 5 or 20 or Biology 20C or Anthropology 1. Concurrent enrollment in course 101L is required. Offered in alternate academic years.

**101L. The Fossil Record Laboratory (1 credit).**

Systematics, ecology, and evolutionary history of the major groups of fossil-forming animals. Laboratory 3 hours and one 1-day field trip. Concurrent enrollment in course 101 is required. Offered in alternate academic years.

**104. Geologic Hazards.**

The recognition, evaluation, and mitigation of geologic hazards: earthquakes and faulting, tsunamis, volcanism, landslides and mass movements, and flooding. Students are billed a materials fee. Prerequisite(s): course 10/L or 5/L or 20/L.

**109. Elements of Field Geology.**

Basic tools and techniques used in geologic fieldwork. Preparation, analysis, and interpretation of geologic maps. Nine days of weekend field trips required, including a six-day geologic mapping exercise. Laboratory: 2 hours. Recommended for courses 120, 130, 150, and required for 188A-B. May not be taken concurrently with course 120. Students are billed a materials fee. (General Education Code(s): W satisfied by taking this course and courses 188A and 188B.) Prerequisite(s): Satisfaction of the Entry Level Writing Requirement, course 10 or 5 or 20, and 10L or 5L or 20L. Concurrent enrollment in 109L is required. Enrollment limited to 25.

**109L. Field Geology Laboratory (2 credits).**

Laboratory exercises essential to the successful completion of fieldwork required in course 109. Topics include topographic maps, Brunton compass, rock identification and description, structure sections, and landslide recognition. Concurrent enrollment in course 109 required. Enrollment limited to 25.

**110A. Evolution of the Earth.**

Investigation of the processes and mechanisms that have produced the present Earth system, with an emphasis on the temporal evolution of the earth from the Archean to the present. Specific topics covered include cyclicity in Earth processes and the evolution of, and interplay between the planet’s crust, atmosphere, hydrosphere, and biosphere. Prerequisite(s): courses 5 or 10 or 20, and 5L or 10L or 20L, and Mathematics 11A or 19A.

**110L. Evolution of the Earth Laboratory (2 credits).**

Laboratory sequence illustrating topics covered in course 110A. Emphasis is on quantifying and evaluating different phenomena related to thermal, tectonic, climatic, and evolutionary processes. Prerequisite(s): concurrent enrollment in course 110A.

**111. Mathematics in the Earth Sciences.**

Series and sequences, vectors, 3D analytic geometry, partial differentiation, matrix algebra, and differential equations with applications in the Earth sciences. Topics include matrix manipulation, systems of linear equations, least-squares, Taylor series, gradients, optimization, analytic and numerical solutions to differential equations. Prerequisite(s): courses 5 or 10 or 20 and Mathematics 11B or 19B. (General Education Code(s): Q.) (F)

**150. Structural Geology.**

Principles and methods of analysis of brittle and ductily deformed rocks. Includes descriptions of structures, field analysis of structures, and mechanics of deformation. Three day-long field trips on weekends. Students are billed a materials fee. Prerequisite(s): course 110A or 110B; course 109 recommended; concurrent enrollment in course 150L is required.

**150L. Structural Geology Laboratory (2 credits).**

Structural analysis of faults, folds, and maps. Use of stereographic projections. Cross section construction and balancing from field data. Concurrent enrollment in course 150 is required.

**190. Earth Sciences Mentorship (1 credit).**

Faculty research activity, analytic facilities, and career counseling in three separate Earth sciences laboratories are offered with varied formats including field trips, discussions, and equipment demonstrations. Three different faculty participate in each offering. Enrollment restricted to Earth sciences, Earth sciences/anthropology, and environmental studies/Earth sciences majors. Enrollment limited to 24. May be repeated for credit.

**196A. Introductory Teaching Seminar (2 credits).**

Training for undergraduates in practical teaching skills. Focus on preparation, assessment, and feedback. Classroom techniques, organizational and time management strategies, practice teaching sessions. Students cannot receive credit for this course and course 203. Future participation in 196B is encouraged. Course may not

be counted toward upper-division major requirements. Enrollment restricted to Earth sciences, Earth sciences/anthropology, and environmental studies/Earth sciences majors.

**203. Introductory Teaching Seminar (2 credits).**

Intended for new Earth sciences graduate students. Focus on preparation, assessment, and feedback. Classroom techniques, organizational and time management strategies, practice teaching sessions specific to laboratory and/or science instruction. Required follow-up meetings to discuss practical teaching experience. Students cannot receive credit for this course and course 196A. Enrollment restricted to graduate students.

**205. Introductory Graduate Seminar.**

Lecture and seminar-style class intended to welcome new graduate students to the department; review fundamental concepts in Earth sciences; introduce students to research and interests of departmental faculty and researchers; develop skills in reading scientific abstracts and papers, and write abstracts and a proposal; and prepare graduate students for the preliminary interview. Features lectures on fundamental topics and assigned reading from scientific papers and texts for the first half of the course, lectures on faculty and researcher interests in the second half of the course, and tutorials on abstracts, papers, and proposals. Two weekend field trips. Students are billed a materials fee. Enrollment restricted to graduate students.

**251. Photogrammetry.**

Introduces photogrammetry's basic principles of imaging systems and digital-image processing for both terrestrial and planetary data, leading to the application of photogrammetry techniques to a final project of the student's choosing. Enrollment restricted to graduate students or by permission of instructor.

**290E. Topics in Planetary Science.**

We examine one well-defined topic in planetary science, beginning with a summary of current knowledge and concluding with the latest research literature. Topics will vary from year to year and may include planetary collisions, terrestrial planets, origin of planetary systems, small bodies, the New Mars, and satellites of Jupiter. Achievement will be evaluated based on class participation, exams, and a research project. Open to undergraduate majors with permission of instructor. Enrollment restricted to graduate students. May be repeated for credit.

**290H. Topics in Hydrogeology.**

Selected topics in groundwater, hydrothermal systems, and related subjects. Discussion of theoretical models, field and laboratory approaches, and recent research. Topics vary from year to year. Course designed for graduate students but available to qualified Earth sciences majors. May be repeated for credit.

**292. Seminar (no credit).**

Weekly seminar attended by faculty, graduate students, and upper-division undergraduate students.

**Economics**

**1. Introductory Microeconomics: Resource Allocation and Market Structure.**

For all interested students as well as prospective economics majors. Examines how markets allocate resources in different kinds of economies. Topics include competitive

markets, monopoly, financial markets, income distribution, market failures, the environment, and the role of government. (General Education Code(s): IS.)

**2. Introductory Macroeconomics: Aggregate Economic Activity.**

For all interested students and prospective economics majors. Examines how the overall level of national economic activity is determined, including output, employment, and inflation. Explores the roles of monetary and fiscal policies in stabilizing the economy and promoting growth, with a focus on contemporary policy debates. (General Education Code(s): IS.)

**10A. Economics of Accounting.**

Introduction to accounting principles and practice; preparation and analysis of financial statements; study of internal control procedures. Courses 10A and 10B satisfy the Accounting 1A-B requirement at UC Berkeley.

**11A. Mathematical Methods for Economists.**

Mathematical tools and reasoning, with applications to Economics 1. Topics are drawn from differential calculus and include limits, continuity, techniques of differentiation, differentials, relative and absolute extrema, and applied optimization. (Also offered as Applied Math and Statistics 11A. Students cannot receive credit for both courses.) Students who have already taken Mathematics 11A and 19A should not take this course. Prerequisite(s): score of 31 or higher on Mathematics Placement Exam. Students who do not place into precalculus should enroll in Mathematics 2. (General Education Code(s): IN, Q.)

**11B. Mathematical Methods for Economists.**

Mathematical tools and reasoning, with applications to Economics 2. Topics are drawn from integral calculus and multivariable calculus, including indefinite and definite integrals, separate differential equations, partial derivatives, total differentials, optimization in several variables, and Lagrange multiplier. (Also offered as Applied Math and Statistics 11B. Students cannot receive credit for both courses.) Prerequisite(s): course 11A, or Applied Mathematics and Statistics 11A, or Mathematics 11A, or Mathematics 19A. (General Education Code(s): IN, Q.)

**100A. Intermediate Microeconomics.**

Covers major theoretical issues arising in the study of resource allocation, the function of markets, consumer behavior, and the determination of price, output, and profits in competitive, monopolistic, and oligopolistic market structures. Also considers issues of welfare and public policy. Students cannot receive credit for this course and course 100M. Prerequisite(s): courses 1, 2 and 11A or Applied Mathematics and Statistics 11A or Mathematics 11A or 19A; Course 11B is strongly recommended.

**100B. Intermediate Macroeconomics.**

Covers major theoretical issues arising in the study of income, employment, interest rates, and the price level. Examines the role of monetary and fiscal policy in economic stabilization. Also considers these issues as they relate to the global economy. Prerequisite(s): courses 1, 2, and 11A or Applied Mathematics and Statistics 11A or Mathematics 11A or 19A. Course 100A is strongly recommended as preparation.

**100M. Intermediate Microeconomics, Math Intensive.**

Mathematically sophisticated version of course 100A. Provides analytically rigorous treatment of the subject

using a calculus-intensive presentation of microeconomic theory. For specific topics, see course 100A. Students cannot receive credit for this course and course 100A. Prerequisite(s): courses 1, 2, and 11A or Mathematics 11A or 19A or Applied Mathematics and Statistics 11A.

**101. Managerial Economics.**

Analysis of the theory and practice of decision making in business firms, applying the concepts and techniques of microeconomics. Topics may include pricing schemes, non-price competition, internal organization of firms, incentive contracts, asymmetric information, and game theory. Case studies are used to illustrate some topics. Prerequisite(s): courses 100A or 100M, and 113.

**109. Business Ethics.**

Critical examination of ethical principals, theories, and their application to business, nonprofit, and public organizations; exploration of the process of ethical decision making and ethical problems facing managers, including corporate social responsibility, work place democracy, consumer safety, environmental protection and international business conduct. Prerequisite(s): courses 1 and 2; satisfaction of the Entry Level Writing and Composition requirements. (General Education Code(s): W.)

**111A. Intermediate Accounting I.**

Principles, control, and theory of accounting for assets; accounting as an information system; measurement and determination of income. Projects involving spreadsheet software required. Students cannot receive credit for this course and course 209A. Prerequisite(s): course 10B.

**113. Introduction to Econometrics.**

Practical methods for organizing and analyzing economic data, testing economic hypotheses, and measuring economic relationships. Regression analysis is the main empirical method, and basic statistical and probability theory is included. Students gain hands-on computer experience with an econometric software package. Students cannot receive credit for this course and Engineering 113. Prerequisite(s): courses 1, 2, and either course 11B, Applied Mathematics and Statistics 11B, Mathematics 22, or Mathematics 23A. Courses 100A or 100B strongly recommended as preparation. (General Education Code(s): Q.)

**117A. Income Tax Factors for Individuals.**

Introduces federal taxation for individuals. Topics for study include taxable income, gross income exclusions and inclusions, capital gains, depreciation, business and itemized deductions, personal and dependency exemptions, passive activity losses, tax credits, and methods of accounting. Prerequisite(s): course 10B.

**120. Economic Development.**

A comparative approach to the study of the economic development of low-income countries. Various obstacles to growth are identified, and different types of solutions are analyzed. Prerequisite(s): courses 1 and 2. (General Education Code(s): E.)

**125. Economic History of the U.S.**

The development of the American economy from colonial times to the present, with emphasis on the interaction between institutional structure and economic development. Topics include the economics of slavery, the rise of big business, and the causes of the Great Depression. Prerequisite(s): courses 1 and 2. Related course work in history also helpful.

**128. Poverty and Public Policy.**

Studies the causes, consequences, and governmental response to urban poverty in the U.S. Topics include how public policy, the macroeconomy, race, gender, discrimination, marriage, fertility, child support, and crime affect and are affected by urban poverty. Emphasizes class discussion and research. (Also offered as Legal Studies 128. Students cannot receive credit for both courses.) Prerequisite(s): satisfaction of Entry Level Writing & Composition requirement; courses 100A or 100M; and course 113. Enrollment restricted to economics, business management economics, global economics, legal studies, or economics combined majors. Enrollment limited to 35. (General Education Code(s): W, E.)

**133. Security Markets and Financial Institutions.**

An examination of all major financial markets: equities, bonds, options, forwards, and futures. Uses modern financial theory, including asset pricing models such as CAPM and APT. Prerequisite(s): courses 100A or 100M, and 113.

**136. Business Strategy.**

The strategic management process, techniques for analyzing single-business and diversified companies, implementing strategy, organization, business planning, financial strategy, competitive analysis, entrepreneurial skills. Prerequisite(s): courses 10A and either 100A or 100M. Concurrent enrollment in course 136L is required.

**136L. Laboratory Business Strategy (2 credits).**

Laboratory sequence discussing business simulation game associated with course 136. One three-hour session in microcomputer lab. Prerequisite(s): concurrent enrollment in course 136.

**138. The Economics and Management of Technology and Innovation.**

Examines the analytics of issues in technology and innovation, including cooperation in research and development (R&D), standardization and compatibility, patents and intellectual property rights, and strategic management, using economic models and firm case studies. Prerequisite(s): course 100A or 100M, or permission of instructor.

**140. International Trade.**

The theory of international production and trade. The effects of tariffs and quantitative trade restrictions; the nature of economic integration; multinational firms; effects of trade and protection on economic stability and welfare. Prerequisite(s): course 100A or 100M.

**143. Policy Issues in the International Economy.**

Covers selected issues concerning the international economy. Topics include: U.S. competitiveness; U.S. trade policy; immigration; trade and the environment; developing countries; foreign investment; foreign exchange markets; and international economic institutions. Prerequisite(s): courses 1, 2, and 100A or 100M.

**148. Latin American Economies.**

This course is designed to familiarize students with the economic and business environment in Latin America. Prerequisite(s): courses 1 and 2.

**150. Public Finance.**

Economics of taxation, including incidence, equity issues, efficiency, and supply side effects. Close attention to taxes in the U.S. system and tax-reform issues.

Students cannot receive credit for this course and course 250. Prerequisite(s): course 100A or 100M, and course 100B or 100N.

**162. Legal Environment of Business.**

A study of law and the legal process, emphasizing the nature and function of law within the U.S. federal system. Attention is given to the legal problems pertaining to contracts and related topics, business association, and the impact of law on business enterprise. (Also offered as Legal Studies 162. Students cannot receive credit for both courses.) Prerequisite(s): course 100A or 100M.

**166A. Game Theory and Applications I.**

Introduces modern game theory, including applications in social science, biology, and engineering. Topics include extensive form, strategic form, mixed strategies, incomplete information, repeated games, evolutionary games, and simulation techniques. Prerequisite(s): AMS 5 or 7 or course 113 and either course 11B, AMS 11B, or Mathematics 11B or Mathematics 19B. Enrollment restricted to juniors and seniors. Enrollment limited to 100.

**171. Natural Resource Economics.**

The application of economic analysis to the use of renewable and nonrenewable natural resources. Efficiency and distributional aspects of natural resource scarcity. Measurement of the benefits and costs. Optimal extraction or use policies. Common property and externalities. Government policies. Prerequisite(s): course 100A or 100M.

**186. Mathematical Methods for Economic Analysis.**

Presents mathematical methods commonly used in graduate-level economic analysis: basic matrix algebra, real analysis, functions, continuity concepts, differentiation, Taylor expansions, and implicit function theorem and optimization. Prerequisite(s): interview only: admitted to M.S. or Pathway Programs.

**200. Microeconomic Analysis.**

Survey of partial equilibrium analysis, market distortions, consumer choice and production and trade theory, perfect and imperfect competition, price discrimination, and intertemporal choice theory.

**204A. Advanced Microeconomic Theory.**

Economic theory of individual and market behavior, including constrained optimization, duality, theory of the consumer, theory of the producer, dynamic optimization, behavior under uncertainty, intertemporal choice, asymmetric information, game theory, partial and general equilibrium, pure and applied welfare economics, public goods and externalities. Illustrative examples emphasize international applications. Courses must be taken in sequence.

**205A. Advanced Macroeconomic Theory.**

Modern macroeconomic theory: determination of national income; employment, inflation, and exchange rates; theories of growth and business cycle fluctuations; international transmission of inflation and other disturbances; recent developments in the analysis of macroeconomic policy; modern theoretical and empirical analysis of aggregate relationships. Courses must be taken in sequence.

**209A. Accounting I.**

Principles, control, and theory of accounting for assets; accounting as an information system; measurement and determination of income. M.S. level projects required.

Students cannot receive credit for this course and course 111A. Enrollment restricted to graduate students.

**210B. Mathematical Methods for Economic Analysis.**

A course in introductory mathematical economics which covers standard optimization problems, difference and differential equations, optimal control theory, decisions under uncertainty, game theory, and stochastic calculus. Course 210A or equivalent is strongly recommended as preparation.

**211A. Advanced Econometrics.**

Advanced econometric methods are introduced. Topics include the standard regression analysis, simultaneous equation estimation, nonlinear models, qualitative response models, panel data analysis, and univariate and multivariate time series analysis.

**211C. Topics in Empirical Research.**

A topic course in econometrics designed for graduate students interested in quantitative analysis. Selected topics, including standard and recently developed econometric techniques, are critically and thoroughly discussed. In addition to methodology, focuses on exploring the research potential and applications of advanced econometric techniques. Courses 211A and 211B are strongly recommended as preparation.

**216. Applied Econometric Analysis I.**

The use of statistical techniques for the testing of economic hypotheses and the estimation of parameters, with emphasis on regression analysis. Includes methods of dealing with serial correlation, errors in variables, multicollinearity, and heteroscedasticity. Experience with common statistical packages.

**234. Financial Institutions and Markets.**

This course examines the evolving microstructure of financial markets, instruments, and institutions. Topics include the role of banks and other financial intermediaries and the trading practices for domestic and international financial instruments, including equity, debts, futures, and options. Prerequisite(s): course 233.

**240A. Advanced International Trade Theory I.**

The theory of international trade and commercial policy. Both traditional analyses and recent developments are covered. Topics include both normative and positive theoretical analyses, as well as empirical testing of theory. Enrollment restricted to graduate students. Courses 204A-B-C are strongly recommended as preparation.

**241A. Advanced International Finance I.**

Financial aspects of aggregate capital and trade flows and income determination in open economies. Specific topics include financial risk in the international setting, international borrowing and lending, money and exchange rate regimes, income determination and macroeconomic policy, current issues in international monetary reform.

**250. Advanced Public Finance.**

Theory of the role of public sector expenditures and taxes in market economies. Analyzes efficiency and equity arguments for government intervention. Topics include the role of public debt and deficits in economies, international effects of tax and spending policies, and economic theories of public sector decision making. Courses 204A and 205A are strongly recommended as preparation. Students cannot receive credit for this course and course 150.

**294A. Applied Economics Laboratory (2 credits).**

Practical experience in managing computerized data sets and running statistical packages. Covers SAS, RATS, TSP, Bridge Equity System, LIMDEP, GAUSS, and MAPLE programs; and internet, IFS, OECD, and SPIRS EconLit databases. May be repeated for credit.

**296A. Third Year Ph.D. Seminar.**

Student presentations of literature and/or original research in areas of student research interest. Student discussion of presentations under faculty supervision. Prerequisite(s): courses 204C, 205C, 211B, 240A, 240B, 241A, and 241B are required preparation.

**Education**

**50B. CAL Teach 1: Mathematics (2 credits).**

Introductory seminar exploring secondary students, teaching, and schools in the context of mathematics instruction. Concurrent participation in a secondary school internship required. Course material supports and enhances students' placement experiences. Prerequisite(s): Acceptance into CAL Teach and concurrent participation in a secondary school internship in a math classroom. Enrollment limited to 25.

**50C. CAL Teach 1: Science (2 credits).**

Introductory seminar exploring secondary students, teaching, and schools in the context of science instruction. Concurrent participation in a secondary school internship required. Course material supports and enhances students' placement experiences. Prerequisite(s): Acceptance into CAL Teach and concurrent participation in a secondary school internship in a science classroom. Enrollment limited to 25.

**75B. CAL Teach 2: Mathematics (2 credits).**

Examines students, schools, and mathematics instruction with emphasis on developing an instructional project aligned with state-mandated content standards. Course content supports and enhances students' placement experiences. Prerequisite(s): CAL Teach 1 (course 50A, 50B, or 50C), and acceptance into CAL Teach 2 and concurrent participation in a secondary school internship in a mathematics classroom. Enrollment limited to 25.

**75C. CAL Teach 2: Science (2 credits).**

Examines students, schools, and science instruction with emphasis on developing an instructional project aligned with state-mandated content standards. Student will concurrently participate in a K-12 school internship. Course content supports and enhances students' placement experiences. Prerequisite(s): CAL Teach 1 (course 50A, 50B, or 50C), and acceptance into CAL Teach 2 and concurrent participation in a secondary school internship in a science classroom. Enrollment limited to 25.

**92A. The Evolution of Education.**

Introduction to educational theory, Plato through Freire. A survey of major ideas and issues in education, ranging from the purposes of education and the organization of knowledge to the nature of teaching, compulsion in schooling, and questions concerning developmental theory, moral education, and aesthetic education. Course enrollment is unrestricted. (General Education Code(s): IS.)

**160. Issues in Educational Reform.**

Explores a variety of perspectives on key educational policy issues including desegregation, bilingual education,

affirmative action, charter schools, national and state curriculum standards, student assessment and the assessment and certification of teachers. Enrollment restricted to juniors and seniors. Enrollment limited to 50.

**170. Schools and Asian Cultures.**

Focuses on a historical and contemporary study of education in East, Southeast, and South Asia as well as the negotiation of public and private schooling within the Asian immigrant population in California. Specific topics include language acquisition; the role of religious affiliation and other culturally specific schooling; patterns of family life; and the effects of socioeconomic status, career aspirations, and parental participation in schools. Enrollment restricted to juniors and seniors. Enrollment limited to 50.

**180. Introduction to Teaching.**

Designed to encourage students to think about teaching in new ways. Assumptions about teaching and schooling are examined as well as considering what it takes to teach so that children learn and understand. Not a course in how to teach, but an opportunity to reconsider what teaching should try to accomplish and what kinds of learning teachers should foster. Practicum in the schools of 30 hours per quarter required. Enrollment restricted to juniors and seniors. Enrollment limited to 120.

**181. Race, Class, and Culture in Education.**

Examines the schooling experience and educational attainment of racial/ethnic minority students in the U.S. Focuses primarily on domestic minorities. Addresses issues of variability between and within minority groups and the role of cultural, structural, and psychological factors in the educational attainment of these students. Enrollment restricted to juniors and seniors. Enrollment limited to 50. (General Education Code(s): E.)

**200. Applied Classroom Analysis and Methods: Beginning Student Teaching.**

A required course that introduces students to the diverse cultural and linguistic settings of today's classrooms. Classroom practices, instructional strategies, and analysis are emphasized. First course in the student teaching placement series. Placements are used to examine and apply teaching methods while developing classroom management skills. Class meetings include discussion and demonstration of teaching methods. (Formerly course 203.) Enrollment restricted to graduate students. Enrollment limited to 50.

**204. Methods of English Language Development: Single Source.**

Course helps future educators develop a practical theory for teaching English in the elementary and secondary schools to students who speak other languages. Topics include current trends in the field, language assessment, and the design of instructional units. Enrollment restricted to education graduate students. Enrollment limited to 30.

**211. Topics in Elementary Education: Teaching Special Populations (2 credits).**

Addresses the preparation of teachers for meeting needs of special populations within the general education setting. Covers basic knowledge, skills, and strategies. (Formerly course 265B.) Enrollment restricted to graduate students. Enrollment limited to 50.

**220. Reading and Language Arts for Elementary Classrooms.**

This course provides both a theoretical and practical foundation for literacy instruction, emphasizing reading

and language arts instruction in grades K-8. Interactive instruction and field experience will be used to examine curricula, methods, materials, and literacy evaluation. (Formerly course 211A.) Enrollment restricted to graduate students. Enrollment limited to 30.

**222. Mathematics Learning and Teaching in Elementary Classrooms.**

This course is required for the multiple subject credential. Examines constructivist and sociocultural approaches to the learning and teaching of mathematics in elementary classrooms, including the nature of mathematics and theories of how children learn mathematics. Provides an introduction to mathematics teaching standards and a critical overview of curricula, instructional theories, and multiple approaches to teaching the "big ideas" in elementary mathematics. (Formerly course 213A.) Enrollment restricted to graduate students admitted to the credential program. Enrollment limited to 50.

**226. English Teaching: Theory and Curriculum.**

Required for the single subject English credential student. Examines sociocultural approaches to the learning and teaching of English in secondary classrooms, including theories of how children learn English language, literature, and composition. (Formerly course 214A.) Enrollment restricted to education graduate students.

**228. Math Education: Research and Practice.**

Examines research on the learning and teaching of mathematics. Topics include the nature of mathematics cognition and learning, how children learn mathematics, mathematical discourse, and perspectives on addressing diversity in mathematics classrooms. Course is required for M.A./credential students in secondary (single subject) mathematics and of Ph.D. students in mathematics education. (Formerly course 213B.) Enrollment restricted to graduate students admitted to the secondary mathematics M.A./credential program and to Ph.D. students in the Education Department. Graduate students in other departments admitted by permission of the instructor. Enrollment limited to 25.

**230. Science Education: Research and Practice.**

Examines theoretical approaches to the learning and teaching of science including the nature of scientific knowledge, theories of how children learn science, approaches to scientific discourse, and perspectives on addressing diversity in science classrooms. Course is required for single subjects science credential. (Formerly course 212B.) Enrollment restricted to program enrollees. Enrollment limited to 50.

**232. Social Science: Theory and Curriculum.**

Required for the single subject social science credential student. Tracks both the implicit and explicit connections between theory and practice, illustrating that theory suggests best practice while practice informs theory-formation and testing. (Formerly course 215A.) Enrollment restricted to education graduate students.

**235. Introduction to Educational Inquiry.**

Addresses foundational knowledge needed to understand and conduct educational inquiry and research. Topics include epistemology in the human sciences, philosophical foundations of modern research strategies, and general classes of research investigations in education. (Formerly course 200A.) Enrollment restricted to education graduate students. Enrollment limited to 15.

**254. Critical and Alternative Paradigms in Education Research.**

Examines theoretical foundations of critical and alternative research paradigms commonly used in education, including critical ethnography, participatory research, counter-storytelling, and social-design experiments. Examines critiques of qualitative/quantitative research from feminist and critical theory; surveys how such critiques have informed the development of new paradigms in education research; and explores the benefits and limits of selected alternative paradigms. Enrollment restricted to graduate students. Enrollment limited to 15.

**260A. Math Education and Latinos (2 credits).**

Introduction to research literature relevant to mathematics education and Latinos and topics such as “Language and Mathematics Learning” and “Teaching Mathematics in Bilingual Classrooms.” Intended for education Ph.D. students working with the Center for Mathematics Education and Latinos (CEMELA). Seminar extends over three quarters (fall, winter, spring). Enrollment restricted to graduate students. Enrollment limited to 10.

**261. Thinking, Learning, and Teaching.**

Examines multiple theoretical perspectives on thinking, learning, and teaching; the development of the whole person in a variety of cultural contexts; the roles thinking, learning, and teaching play in that development; and how researchers’ and educators’ conceptions shape instruction. Enrollment restricted to education graduate students. Enrollment limited to 15.

**269A. First-Year Doctoral Proseminar (2 credits).**

This three-quarter seminar supports professional development for first-year doctoral students. Students develop essential skills for success as scholars, discuss issues in educational research and practice, and are introduced to research by Education Department faculty. Enrollment restricted to graduate students. Enrollment limited to 15.

**270A. Second-Year Professional Development Seminar (2 credits).**

Three-quarter seminar supports professional development for second-year doctoral students. Activities include preparation of research and conference proposals, presentation of second-year project findings, and attendance at department colloquia. Enrollment restricted to second-year Ph.D. students. Enrollment limited to 12.

**272. Sociolinguistics in Education.**

Investigates discipline of sociolinguistics and explores actual ways in which sociolinguistics has become a useful lens for better understanding teaching, learning, and schooling. Conduct own sociolinguistic analyses of data collected for culminating project. (Formerly course 266B.) Enrollment restricted to graduate students. Enrollment limited to 15.

**275J. Research Seminar in Educational Reform: Supporting Dissertation Writing 279B.**

Familiarizes students with the basic concepts of educational research and facilitates progress toward completion of dissertation while identifying faculty and community resources available to assist in research. Enrollment restricted to Ed.D. graduate students.

**279B. Dissertation Supervision for Ed.D.**

Supervision of Ed.D. candidate through third year of research analysis, writing, and editing of dissertation. Preparation for oral defense and assistance with bringing dissertation to standards of publication and conference presentation. Enrollment restricted to Ed.D. graduate students. Enrollment limited to 20.

**291. Comparative and International Education.**

Examines educational access and advancement in several nations affected by globalization, national policies, and localized identity and opportunity structures. Attention to language and cultural expectations relevant to research in international contexts and how this knowledge provides reflection on the American condition. (Formerly course 268D.) Enrollment restricted to graduate students. Enrollment limited to 15.

**Electrical Engineering**

**70. Introduction to Electronic Circuits.**

Introduction to the physical basis and mathematical models of electrical components and circuits. Topics include circuit theorems, constant and sinusoidal inputs, natural and forced response of linear circuits. Introduction to circuit/network design, maximum power transfer, analog filters, magnetic circuits, and transformers. Prerequisite(s): Physics 5C/N or 6C/N, and Mathematics 24 or Applied Mathematics and Statistics 27. Students must enroll concurrently in course 70L.

**70L. Introduction to Electronic Circuits Laboratory (1 credit).**

Laboratory sequence illustrating topics covered in course 70. One two-hour laboratory session per week. Students are billed a materials fee. Prerequisite(s): Physics 5C/N or 6C/N, and Mathematics 24 or Applied Mathematics and Statistics 27. Students must enroll concurrently in course 70.

**80S. Sustainability Engineering and Practice.**

Topical introduction to principles and practices of sustainability engineering and ecological design with emphasis on implementation in society. Provides an understanding of basic scientific, engineering, and social principles in the design, deployment, and operation of resource-based human systems, and how they can be maintained for this and future generations. No specialized background in engineering, science, or social sciences is assumed. (General Education Code(s): T7-Natural Sciences or Social Sciences.)

**103. Signals and Systems.**

The course covers the following topics: characterization and analysis of continuous-time signals and linear systems, time domain analysis using convolution, frequency domain analysis using the Fourier series and the Fourier transform, the Laplace transform, transfer functions and block diagrams, continuous-time filters, sampling of continuous time signals, examples of applications to communications and control systems. Prerequisite(s): courses 70 and 70L.

**123A. Engineering Design Project I.**

First of a two-course sequence that is the culmination of the engineering program. Students apply knowledge and skills gained in elective track to complete a major design project. Students complete research, specification, planning, and procurement for a substantial project.

Includes technical discussions, design reviews, and formal presentations; engineering design cycle, engineering teams, and professional practices. Formal technical specification of the approved project is presented to faculty. Prerequisite(s): Electrical Engineering 171 or Computer Engineering 121; previous or concurrent enrollment in Computer Engineering 185; permission of department and instructor. Students are billed a materials fee. (Also offered as Biomolecular Engineering 123A. Students cannot receive credit for both courses.)

**130. Introduction to Optoelectronics and Photonics.**

Introduction to optics, photonics and optoelectronics, fiber optic devices and communication systems: Topics include: ray optics, electromagnetic optics, resonator optics, interaction between photons and atoms, dielectric waveguides and fibers, semiconductor light sources and detectors, modulators, amplifiers, switches, and optical fiber communication systems. Taught in conjunction with course 230. Students cannot receive credit for this course and course 230. Prerequisite(s): Physics 5B and 5C, or 6B and 6C; concurrent enrollment in course 130L.

**130L. Introduction to Optoelectronics Laboratory (1 credit).**

Includes a series of projects to provide hands-on experience needed for basic concepts and laboratory techniques of optical fiber technology. Students are billed a materials fee. Prerequisite(s): Physics 5L-M-N, or 6L-M-N; concurrent enrollment in course 130. Enrollment limited to 30.

**145. Properties of Materials.**

The fundamental electrical, optical, and magnetic properties of materials, with emphasis on metals and semiconductors: chemical bonds, crystal structures, elementary quantum mechanics, energy bands. Electrical and thermal conduction. Optical and magnetic properties. Prerequisite(s): Physics 5A/L, 5B/M, and 5C/N or 6A/L, 6B/M, and 6C/N. Students must also concurrently enroll in course 145L.

**145L. Properties of Materials Laboratory (1 credit).**

Laboratory sequence illustrating topics covered in course 145. One two-hour laboratory per week. Students are billed a materials fee. Prerequisite(s): Physics 5A/L, 5B/M, and 5C/N or 6A/L, 6B/M, and 6C/N. Students must also concurrently enroll in course 145.

**172. Advanced Analog Circuits.**

Analog circuit design covering the basic amplifier configurations, current mirrors, differential amplifiers, frequency response, feedback amplifiers, noise, bandgap references, one- and two-stage operational amplifier design, feedback amplifier stability, switch capacitor circuits and optionally the fundamentals of digital-to-analog and analog-to-digital converters. Emphasis throughout will be on the development of approximate and intuitive methods for understanding and designing circuits. Cannot receive credit for this course and course 221. Prerequisite(s): course 171.

**215. Micro-Electro-Mechanical Systems (MEMS) Design.**

Introduction to MEMS technology: covers basic microfabrication technologies, the governing physics for MEMS devices in different energy domains (mechanical, electrical, optical, thermal, and fluidic). Fabrication and design of MEMS devices illustrated using examples of

existing research prototypes and commercial products. Students design, lay out, and fabricate an optical MEMS deformable mirror device for applications in adaptive optics. Prerequisite(s): courses 135, 145, and 211; and Physics 5A, 5B, and 5C. Enrollment restricted to seniors and graduate students. May be repeated for credit.

**221. Advanced Analog Integrated Circuits.**

Analog integrated circuit design with emphasis on fundamentals of designing linear circuits using CMOS. Covers MOS devices and device modeling, current mirrors, op-amp design, op-amp compensation, comparators, multipliers, voltage references, sample-and-holds, noise, and an introduction to more complicated systems using these building blocks, such as phase locked loops and analog-to-digital converters. If time permits, integrated circuit layout issues and device/circuit fabrication. Students cannot receive credit for this course and course 172. Prerequisite(s): course 171 or equivalent; course 178 or equivalent recommended. Enrollment limited to 20.

**230. Optical Fiber Communication.**

Components and system design of optical fiber communication. Topics include step-index fibers, graded-index fibers, fiber modes, single-mode fibers, multimode fibers, dispersion, loss mechanics, fiber fabrication, light-emission processes in semiconductors, light-emitting diodes, laser diodes, modulation response, source-fiber coupling, photodetectors, receivers, receiver noise and sensitivity, system design, power budget and rise-time budget, fiber-optic networks (FDDI, SONET, etc), wavelength division multiplexing (WDM). Students cannot receive credit for this course and course 130. Enrollment restricted to graduate students. May be repeated for credit.

**232. Quantum Electronics.**

Covers basic theory of interaction of electromagnetic radiation with resonant atomic transitions; density matrix treatment; Rabi oscillation, laser mode-locking, Q-switching; parametric oscillation, stimulated Brillouin and Raman scattering, coherent radiation; and noise in photodetectors and lasers. Prerequisite(s): course 231 or equivalent.

**250. Digital Signal Processing.**

In-depth study of signal processing techniques, including discrete-time signals and systems, the z-transform, sampling of continuous-time signals, transform analysis of linear time-invariant systems, structures for discrete-time systems, the discrete Fourier transform, computation of the discrete Fourier transform, filter design techniques. Students cannot receive credit for this course and course 153.

**262. Statistical Signal Processing I.**

Covers fundamental approaches to designing optimal estimators and detectors of deterministic and random parameters and processes in noise, and includes analysis of their performance. Binary hypothesis testing: the Neyman-Pearson Theorem. Receiver operating characteristics. Deterministic versus random signals. Detection with unknown parameters. Optimal estimation of the unknown parameters: least square, maximum likelihood, Bayesian estimation. Will review the fundamental mathematical and statistical techniques employed. Many applications of the techniques are presented throughout the course. Note: While a review of probability and statistics is provided,

this is not a basic course on this material. Prerequisite(s): course 103 and Computer Engineering 107, or permission of instructor.

**280B. Seminar on Integrated Bioelectronics (2 credits).**

Weekly seminar covering current research in integrated bioelectronics. May be repeated for credit.

**280M. Seminar on Micro-Electro-Mechanical Systems (MEMS) (2 credits).**

Weekly seminar series covering topics of current research interest in Micro-Electro-Mechanical Systems (MEMS) design, fabrication and applications. Current research work and literature in these areas are discussed. Enrollment restricted to graduate students. Undergraduates may enroll with permission of instructor. May be repeated for credit.

**280O. Seminar on Applied Optics (2 credits).**

Weekly seminar series covering topics of current research in applied optics, including integrated, quantum, nonlinear, and nano-optics. Current research work and literature in these areas are discussed. Enrollment restricted to graduate students. Undergraduates may enroll with permission of instructor. May be repeated for credit.

**280Q. Seminar on Quantum Electronics and Nanoelectronics (2 credits).**

Weekly series covers current research in quantum electronics including electron and photon transport in nanostructures; nanoscale heat transport; optoelectronic integrated circuits; nanoscale devices for energy conversion; micro-refrigeration; thermal and acoustic imaging of nanostructures. Current research work and recent literature are discussed. Enrollment restricted to graduate students; undergraduates may enroll by permission of instructor. May be repeated for credit.

**Environmental Studies**

**24. General Ecology.**

Covers principles of ecology including limits to species abundances, evolutionary ecology, population dynamics, community interactions and patterns, and ecosystem patterns and dynamics. (General Education Code(s): IN.)

**80B. The Ecological Forecast for Global Warming.**

A broad overview of the impacts of human activities on the global climate system. Topics include how climate affects the distribution of ecosystems, the influence of global climate change on biodiversity, ecosystem function, and consequences for the human enterprise. (General Education Code(s): T7-Natural Sciences or Social Sciences.)

**91F. Community and Agroecology (2 credits).**

Interdisciplinary two-credit seminar designed to introduce students to concepts of community and agroecology in the context of sustainability. Course can serve as a gateway to or as a continuing basis for participation in PICA (Program in Community and Agroecology). Specific topics and readings change each quarter. Enrollment limited to 25. May be repeated for credit.

**100. Ecology and Society.**

Introduction to environmental issues in an interdisciplinary matrix. Focuses on three issues at the intersection of ecological questions and social institutions: agroecology and sustainable agriculture; population growth, economic

growth, and environmental degradation; and biodiversity conservation and land management. Reviews the important roles of disciplinary abstraction and of the application of that knowledge to context-dependent explanation of environmental problems. Enrollment restricted to environmental studies, environmental studies/biology, environmental studies/economics, and environmental studies/Earth sciences majors. Prerequisite(s): course 23 or Chemistry 1A or 1B; course 24 or Biology 20C; course 25; and Applied Mathematics and Statistics 7 and 7L. Concurrent enrollment in 100L is required.

**100L. Ecology and Society Writing Laboratory (2 credits).**

Required writing lab accompanying course 100. Students are introduced to writing in different styles and for different audiences typical of the ecosystem-society interface. Course 100 writing assignments are developed, written, and revised in conjunction with the lab. W credit is granted only upon successful completion of course 100. Prerequisite(s): Satisfaction of the Entry Level Writing and Composition requirements. Concurrent enrollment in 100 is required. Enrollment limited to 20. (General Education Code(s): W.)

**108. General Entomology.**

Introduction to entomology including anatomy, physiology, systematics, evolution, behavior, and reproduction of the world's most diverse group of organisms. These topics are illustrated in several contexts, from the importance of insects as disease vectors to the historical and contemporary uses of insects by humans. Enrollment limited to 20. Offered in alternate academic years.

**108L. General Entomology Laboratory (3 credits).**

Laboratory sections are devoted to the identification of insects. Individual collections representing 15 orders, sight identification of 60 families, and use of taxonomic keys for positive designations required. Concurrent enrollment in course 108 is required. Enrollment limited to 10. Offered in alternate academic years.

**115A. Geographic Information Systems and Environmental Applications.**

Introduction to geographic information systems (GIS) as the technology of processing spatial data, including input, storage and retrieval; manipulation and analysis; reporting and interpretation. Emphasizes GIS as a decision support system for environmental and social problem solving, using basic model building, experimental design, and database management. Students cannot receive credit for this course and course 215A. Prerequisite(s): Applied Math and Statistics 5 or 7. Enrollment restricted to environmental studies majors and the combined majors. Course 115L is required. A course in computer science, Earth sciences, mathematics, or geography is recommended. Enrollment limited to 40.

**115L. Exercises in Geographic Information Systems (2 credits).**

Exercises in Geographic Information Systems and Remote Sensing that demonstrate the development of digital geographic data. Students gain hands-on experience with developing datasets, using imagery to create GIS layers, performing spatial analysis, and utilizing GPS technology. Emphasis placed on environmental applications. Students cannot receive credit for this course and course 215L.

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Enrollment restricted to environmental studies majors and students majoring in the combined majors with biology, Earth sciences, and economics. Concurrent enrollment in course 115A required.

**130A. Agroecology and Sustainable Agriculture.** Ecological concepts and principles are applied to the design and management of sustainable agroecosystems. Alternatives for agriculture are discussed in terms of ecosystem structure and function. A weekly three-hour lab is required. Prerequisite(s): course 24 or Biology 20C or consent of instructor; concurrent enrollment in course 130L. Enrollment restricted to environmental studies and biology majors and students in the combined majors with Earth sciences, biology, and economics.

**130L. Agroecology and Sustainable Agriculture Laboratory (2 credits).**

Laboratory and field exercises to train in the analysis of ecological processes in agricultural systems, with a focus on the quantification of ecological sustainability. Experimental design, analysis, and data interpretation are emphasized. Prerequisite(s): course 24 or Biology 20C; interview and concurrent enrollment in course 130A is required; bring class and work schedule to first class meeting. Enrollment restricted to environmental studies and biology majors and students in the combined majors with Earth sciences, biology, and economics.

**144. Blood and Oil: Natural Resources, Poverty, and Violence.**

Chronological and analytical examination of economics and politics of global oil use. The interactions of state policies, violent conflicts, and natural-resource use are stressed. Focus is on the Middle East, which contains two-thirds of all known petroleum reserves. Other examples of the nexus of conflict and natural-resource use are also considered. Enrollment limited to 50.

**160. Restoration Ecology.**

A multidisciplinary overview of restoring degraded ecosystems. Among the topics addressed are linkages between ecological principles and restoration, planning and implementing restoration projects, evaluating restoration success, and case studies of restoration of specific ecosystem types. Participation in one work day is required. Prerequisite(s): course 23 or Chemistry 1A or 1B and course 24 or Biology 20C. Enrollment limited to 40.

**165. Freshwater Issues and Policy.**

Concepts, vocabulary, and skills necessary to the analysis of freshwater issues are introduced from hydrology, ecology, law, economics, engineering, and other disciplines. The skills are then applied to case studies involving local, state, and international freshwater conflicts and crises. Prerequisite(s): courses 23 and 25. Enrollment restricted to environmental studies majors and biology, Earth sciences, and economics combined majors.

**179. Environmental Interpretation.**

A field course in theory and practice of environmental interpretation in parks, museums, and school programs with special attention to local natural history and children. Students will work to define their own interpretive philosophy, skills, and style. Background in natural history and/or experience working with children recommended. Preference given to juniors. Prerequisite(s): course 100. Concurrent enrollment in course 184 required. Preference given to juniors. Enrollment limited to 18.

**189. Environmental Studies Research Seminar (1 credit).**

Research seminars presented weekly throughout the year by environmental studies faculty, visiting scholars, and graduate students. Students discuss content and methodology of research presented following each seminar. Students write critiques of some seminars. May be repeated for credit.

**191F. Community and Agroecology Seminar (2 credits).**

Interdisciplinary two-credit seminar designed for upper-division students who want to become involved in PICA (Program in Community and Agroecology) and to explore concepts of community and agroecology as they relate to sustainability. Also emphasizes development of leadership skills. Specific topics and readings change each quarter. Prerequisite(s): course 91F, 130A, 130B, 133, or equivalent experience. Enrollment limited to 25. May be repeated for credit.

**196V. Senior Seminar: Organic Agriculture Theory and Practice.**

Interdisciplinary research seminar examining scientific theory and practice of organic agriculture in both biological and social contexts. Research emphasis placed on ecology of organically-managed agroecosystems and the growing market and consumption of organic commodities. Prerequisite(s): course 129, or 130A or 133 or 161; interview to determine level of preparation and appropriateness of background. Enrollment restricted to senior environmental studies majors and the combined majors with biology, Earth sciences, and economics. Enrollment limited to 15.

**201A. Keywords and Concepts.**

Two-quarter course introduces keywords and concepts that underlie interdisciplinary work in environmental studies through lectures, directed readings, and discussion. Modules include resonant concepts in ecology and society; ecology and evolution; environment and development; the global environment and society; agroecology and conservation biology; and public policy, economics, and law. Final grade for both courses assigned at the end of the second quarter. Enrollment restricted to graduate students.

**215A. Geographic Information Systems and Environmental Applications.**

Introduction to geographic information systems (GIS) as the technology of processing spatial data, including input, storage and retrieval; manipulation and analysis; reporting and interpretation. Emphasizes GIS as a decision support system for environmental and social problem solving, using basic model building, experimental design, and database management. Students cannot receive credit for this course and course 115A. Concurrent enrollment in course 215L is required. Enrollment restricted to environmental studies graduates students. Enrollment limited to 10.

**215L. Exercises in Geographic Information Systems (2 credits).**

Exercises in Geographic Information Systems and Remote Sensing that demonstrate the development of digital geographic data. Students gain hands-on experience with developing datasets, using imagery to create GIS layers, performing spatial analysis, and utilizing GPS technology. Emphasis placed on environmental applications. Students cannot receive credit for this course and course

115L. Concurrent enrollment in course 215A is required. Enrollment restricted to environmental studies graduate students. Enrollment limited to 15.

**240. Public Policy and Conservation.**

Introduction to political and economic approaches to policy analysis, with particular reference to natural resource scarcity, property rights, and environmental conservation. Case studies apply economic and policy process concepts to the management of public lands, biodiversity, and renewable resources. Enrollment restricted to environmental studies graduate students.

**290. Interdisciplinary Research Seminar (2 credits).**

Research seminars presented weekly throughout the year by environmental studies and affiliated faculty, by visiting scholars, and by graduate students. Students discuss the content and methodology of research presented following each seminar. Enrollment restricted to graduate students. May be repeated for credit.

**290L. Graduate Research Seminar (2 credits).**

Graduate student presentations of doctoral research proposals, dissertation work-in-progress, grant applications, and conference papers. This weekly laboratory meeting seeks to develop professional skills, teach constructive criticism, and foster effective discussion among peers. Enrollment restricted to graduate students.

**292. Topics in Research in Environmental Studies (2 credits).**

Seminar in which students give critically evaluated presentations regarding current research in environmental studies and issues in research design. Students should consult with faculty prior to enrolling. Enrollment restricted to graduate students. May be repeated for credit.

### Environmental Toxicology

**80E. Aquatic Toxicology.**

An introduction to the sources, cycling, and impacts of toxicants in aquatic systems, including acid rain, ground water, fresh water rivers and lakes, estuaries, and the ocean. Emphasis is on the properties of toxic chemicals that influence their biogeochemical cycles and factors that influence their toxicity to aquatic organisms and humans. (General Education Code(s): T2-Natural Sciences.)

**101. Sources and Fates of Pollutants.**

Presents in-depth important principles of environmental toxicology related to the introduction, transport, and fate of toxicants in aquatic and terrestrial environments, including environmental chemistry and biogeochemical cycles as well as exposure to pathways and uptake by organisms. Additional emphasis placed on susceptibility and effects of toxicants across organ systems, toxicokinetic and biomarkers of exposure, and effects at the ecosystem level. Students cannot receive credit for this course and course 201.

**200. Interdisciplinary Approaches in Environmental Toxicology.**

Introduction to interdisciplinary, case-based approaches to problem-solving. Course demonstrates how important, current problems in environmental and human health have been addressed and solved. Assigned problems that integrate the different organization levels (environmental, molecular/cellular, organismal/public health) inherent to environmental and human health are presented. Students

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work in collaborative teams to analyze each problem and create a proposal for a research plan/solution. Enrollment restricted to graduate students.

### **201. Sources and Fates of Pollutants.**

Presents in-depth important principles of environmental toxicology related to the introduction, transport, and fate of toxicants in aquatic and terrestrial environments including environmental chemistry and biogeochemical cycles as well as exposure pathways and uptake by organisms. Additional emphasis will be placed on the susceptibility and effects of toxicants across organ systems, toxicokinetics and biomarkers of exposure, and effects at the ecosystem level. Students cannot receive credit for this course and course 101. Enrollment restricted to graduate students; qualified undergraduate science majors may enroll with permission of instructor.

### **281C. Topics in Environmental Microbiology (2 credits).**

Seminar and discussion focusing on mechanism of microbial transformation of metals. Participants present results from their research projects in a seminar format. Relevant journal articles presented and discussed. Enrollment restricted to graduate students; qualified undergraduates may enroll with instructor's permission.

### **281F. Topics in Aquatic Toxicology.**

Analyses of the sources and fates of aquatic pollutants. Discussions on processes at the air-water interface, within the water column, and in aquatic sediments. Topics vary from year to year. Enrollment restricted to graduate students; qualified upper-division science majors may enroll with instructor's permission. May be repeated for credit.

### **281M. Topics in Molecular Toxicology (2 credits).**

Seminar and discussion on the mechanisms of toxicity in DNA alkylating agents. Participants present results from their research, and relevant journal articles are discussed. Enrollment restricted to graduate students. Undergraduates may enroll with instructor's permission. Enrollment limited to 5. May be repeated for credit.

### **281O. Topics in Bacterial Pathogenesis (2 credits).**

Intensive seminar focusing on mechanisms of bacterial pathogenesis of the ulcer-causing bacterium *Helicobacter pylori*. Participants are required to present results from their own research and relevant journal articles. (Also offered as Biology: Molecular Cell & Dev 280O. Students cannot receive credit for both courses.) Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 20. May be repeated for credit.

### **281S. Cellular and Organismal Responses to Toxicants.**

Intensive research seminar on the concepts, theory, and techniques in deriving physiologically based pharmacokinetic models of toxin exposure, metabolism, and efficacy of therapeutic treatment in mammalian models of human metal toxicity. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. May be repeated for credit.

### **281Y. Biofilms: Processes and Regulation (2 credits).**

Intensive seminar series focusing on the most current work on genes and the processes that regulate biofilm

development dynamics as well as on the recent developments on visualization of biofilms. Presentation and discussion based. Enrollment restricted to graduate students. Qualified undergraduate students may enroll with instructor's permission. May be repeated for credit.

### **292. Introductory Graduate Seminar (no credit).**

Weekly seminars by academic and research faculty on their areas of special interest. Students write weekly abstracts on articles covered by the seminars. Enrollment restricted to graduate students; qualified undergraduates may enroll with instructor's permission.

## **Feminist Studies**

### **1. Introduction to Feminisms.**

Core course for feminist studies. Introduces a gendered analysis of philosophical, scientific, historical, economic, political, and cultural issues from feminist perspectives, emphasizing complexities of globalization, class, race, ethnicity, and sexuality. (General Education Code(s): IH.)

### **80P. War in Film and Culture.**

Explores how war films, media, and political discourses about war and violence shape and transform ideas about national identity. Focuses on how ideas about gender, sexuality, race, and class have particularly affected representations of military conflicts. (General Education Code(s): T5-Humanities and Arts or Social Sciences, E.)

### **80S. Women in Music.**

An exploration of the sociological position of women as composers and performers in Western and non-Western musics, with a focus on both ethnographic and historical sources. (Also offered as Music 80S. Students cannot receive credit for both courses.) Offered in alternate academic years. (General Education Code(s): T4-Humanities and Arts, A.)

### **112. Women and the Law.**

Interdisciplinary approach to study of law in its relation to category "women" and production of gender. Considers various materials including critical race theory, domestic case law and international instruments, representations of law, and writings by and on behalf of women living under different forms of legal control. Examines how law structures rights, offers protections, produces hierarchies, and sexualizes power relations in both public and intimate life. (Also offered as Politics 112. Students cannot receive credit for both courses.) Enrollment restricted to feminist studies, politics, legal studies, and Latin American and Latino studies/politics combined majors during priority enrollment only.

### **133. Science and the Body.**

Contemporary technoscientific practices, such as nano-, info-, and biotechnologies, are rapidly reworking what it means to be human. Course examines how both our understanding of the human and the very nature of the human are constituted through technoscientific practices. Prerequisite(s): course 1 or 80C; and course 100. Enrollment restricted to juniors and seniors. Enrollment limited to 20.

### **196. Feminist Methods of Teaching.**

Practicum for undergraduates assisting in the teaching of course 1, *Introduction to Feminisms*, to conduct sections and evaluate student papers. A weekly seminar considers issues relating to experiential and critical thinking, authority in the classroom, effective facilitation of group process,

racial diversity, violence against women. Prerequisite(s): interview with instructor the quarter before course is offered and course 1 or 80C. Students must be upper-division and have a background in feminist studies and/or ethnic studies. Enrollment limited to 25.

### **214. Topics in Feminist Science Studies.**

Graduate seminar on feminist science studies. Topics will vary and may include: the joint consideration of science studies and poststructuralist theory; the relationship between discursive practices and material phenomena; and the relationship between ontology, epistemology, and ethics. Enrollment restricted to graduate students. Enrollment limited to 15.

## **Film and Digital Media**

### **20A. The Film Experience.**

An introduction to the basic elements, range, and diversity of cinematic representation and expression. Aesthetic, theoretical, and critical issues are explored in the context of class screenings and critical readings. Students are billed a course fee. Enrollment restricted to first-year students, sophomores, and juniors. (General Education Code(s): IH, A.)

### **20C. Introduction to Digital Media.**

Introduces fundamental features of digital media and examines the immense visual, social, and psychological impact of the "digital revolution" on our culture. Topics include the concepts and forms of the digital hypertext interface, Internet, and web, and the impact of digital media on conceptions of the self, body, identity, and community. Students are billed a course fee. Enrollment restricted to first-year students, sophomores, and juniors. (General Education Code(s): IH, A.)

### **20P. Introduction to Production Technique.**

Introduction to production process with emphasis on low-budget, independent film and video making. Explores conceptualization, planning, shooting, editing of documentary, personal essay, and feature narrative works. Emphasis on visualization and shooting style, and script-writing, but not hands-on editing. Open to students of varied backgrounds and goals. Students are billed a course fee. (General Education Code(s): A.)

### **80A. Technothrillers.**

Examination of recent films classified as "thrillers" that approach technology (computers, robotics, biotech, the Internet, etc.) through suspense, anxiety, and paranoia. It will also address how technologically produced popular culture negotiates attitudes towards technological change. Students are billed a course fee. (General Education Code(s): T5-Humanities and Arts or Social Sciences, A.)

### **80S. Special Topics in Film and Digital Media.**

Study of selected aspects of film, television, and/or digital media. Includes weekly screenings and historical/theoretical readings. May be repeated for credit. (General Education Code(s): T5-Humanities and Arts or Social Sciences, A.)

### **120. Introduction to Film Theory and Criticism.**

An introduction to classical and contemporary film theory and those theoretical paradigms and methods that have illuminated the media: formalism, realism, structuralism,

semiotics, psychoanalysis, Marxism, feminism, and issues of identity and difference. Students are billed a course fee. Prerequisite(s): course 20A, satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to film and digital media majors, pre-majors, and minors during priority enrollment; may be opened if space allows. (General Education Code(s): W.)

### **132A. International Cinema to 1960.**

A survey of significant developments in narrative film outside Hollywood from the advent of sound technology to the late '50s. Differing inter/national contexts, theoretical movements, technological innovations, and major directors are studied. Students are billed a course fee. Usually offered alternate academic years. Prerequisite(s): course 20A. (General Education Code(s): A.)

### **150. Screenwriting.**

Problems in writing for film and television are explored through the writing of original material and analysis of existing works. Various film genres, conventions, and styles, both fictional and nonfictional, are examined. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. Admission by application process which may begin prior to start of quarter; application materials generally available final week of preceding quarter. See enrollment conditions section in quarterly *Schedule of Classes* for application dates and other application instructions that may apply. May be repeated for credit. (General Education Code(s): W.)

### **151. Film Directing.**

Workshop that explores the director's involvement in film and video production. Topics will include the manipulation of time and space, continuity, script planning and blocking, and working with actors and crew. Students will participate in group and individual exercises in pre-production and scene direction. Prerequisite(s): courses 20A, 20P, and/or 170B are recommended. Admission by application process which may begin prior to the start of the quarter; application materials generally available final week of preceding quarter. See the enrollment conditions section in the quarterly *Schedule of Classes* for application dates and other application instructions that may apply. Enrollment limited to 30. (General Education Code(s): A.)

### **152. Script Analysis.**

Students analyze diverse narrative techniques, dramatic structures, and genre forms to understand the craft of screenwriting and prepare for their own creative writing and filmmaking. Students read finished scripts and view films. Prerequisite(s): course 120. Enrollment restricted to film and digital media majors and film and digital media pre-majors. Enrollment limited to 25.

### **160. Film Genres.**

Concentrated study of films from one cinematic grouping with similar themes and narrative structures such as westerns, musicals, or science fiction, or a comparative study of different genres. History, theory, and criticism of the genre are covered. Students are billed a course fee. Prerequisite(s): course 132A, 132B, 132C, 134A or 134B. May be repeated for credit. (General Education Code(s): A.)

### **161. Documentary Film and Video.**

Explores the category of nonfiction through a historical and theoretical study of documentary in film and video.

Addresses ethnographic film, Soviet and Griersonian documentary, cinema verité and/or other selected documentary texts and the issues of representation they raise. Students are billed a course fee. Prerequisite(s): course 20A or 20B. Offered in alternate academic years.

### **168. National Cinema and Culture.**

Study of a specific cinematic or other media tradition of a region, nation, language, diasporic collectivity or other unifying cultural entity. Not a survey, this course selects one focus or offers a comparative of cross-cultural framework. Students are billed a course fee. Prerequisite(s): course 130, 132A, 132B, or 132C. May be repeated for credit.

### **170A. Introduction to Digital Media Production**

Introduction to the conceptual and technical fundamentals of making digital media. Covers principles of digital image manipulation, basic web authoring, and interface design through projects that introduce production techniques and methods. Students are billed a materials fee. Prerequisite(s): course 20C Enrollment limited to 20. (General Education Code(s): A.)

### **170B. Fundamentals of Film and Video Production.**

An introduction to the art and craft of making films and videos. Covers principles of cinematography, videography, editing, production planning, and lighting involving both production and techniques and methods. Students are billed a materials fee. Prerequisite(s): course 20A or 20B and one other film/video and digital media critical studies or history course required. Completion of additional upper-division film and digital media critical studies or history courses improves students' ability to be admitted to this course. Admission by application and entrance essay. Application process may begin prior to start of quarter; application materials generally available final week of preceding quarter. See enrollment conditions section in quarterly *Schedule of Classes* for application dates and other application instructions that may apply. Enrollment limited to 25. (General Education Code(s): A.)

### **172. Film and Video Studio.**

Intermediate workshop in film and video production. Topics include cinematography, sound, and non-linear digital editing techniques. Each student is responsible for the completion of a short project utilizing 16mm film or video. Students must bear the cost of materials and are billed a materials fee. Prerequisite(s): priority given to students who have been accepted into the production concentration. Admission is by application process which may begin prior to start of quarter; application materials generally available final week of preceding quarter. See enrollment conditions section in quarterly *Schedule of Classes* for application dates and other application instructions that may apply. Students who are not in the production concentration and who have completed course 170A or 170B may apply by submitting an application and sample of production work at first class meeting; these applications will be considered on a space-available basis. Enrollment limited to 25.

### **175. Documentary Video Workshop.**

Workshop in documentary video production, development of critical standards, ethical issues, and technical methods. Each student is responsible for the completion of short documentaries from assignments. Students must

bear the cost of materials and are billed a materials fee. Prerequisite(s): priority given to students who have been accepted into the production concentration. Admission is by application process which may begin prior to the start of the quarter; application materials generally available final week of preceding quarter. See the enrollment conditions section in the quarterly *Schedule of Classes* for application dates and other application instructions that may apply. Students who are not in the production concentration and who have completed course 170A or 170B may apply by submitting an application and sample of production work at first class meeting; applications will be considered on a space-available basis. Enrollment limited to 25.

### **194A. Film Theory Seminar.**

Advanced senior seminar examining classical and contemporary film theory and those theoretical paradigms and methods that have illuminated the medium: formalism, realism, structuralism, semiology, psychoanalysis, Marxism, feminism, and phenomenology. Primary texts are read. Students are billed a course fee. Prerequisite(s): course 120. Enrollment restricted to senior film and digital media majors. Enrollment limited to 20.

### **194S. Special Topics Seminar.**

Intensive research and writing on a changing topic chosen to demonstrate critical mastery in a specific area of film and digital media studies, for example, film adaptations and their literary sources, documentary/reality shows, or networked new media texts. Students are billed a materials fee. Prerequisite(s): course 120. Enrollment restricted to senior film and digital media majors. Enrollment limited to 20. May be repeated for credit.

## **French**

### **1. Instruction in the French Language.**

Introduction to French language and culture with practice in all four language skills: listening, speaking, reading, and writing. Intended for students with no previous study of French.

### **2. Instruction in the French Language.**

Further development of cultural competence and basic French language skills, both written and spoken. Students learn past tenses in this course. Prerequisite(s): course 1 or placement by interview.

### **3. Instruction in the French Language.**

Final quarter of first-year sequence. Students complete study of French language basics, including the future tense and the conditional and the subjunctive mood, while continuing to learn about French and Francophone cultures. Prerequisite(s): course 2 or placement by interview.

### **4. Intermediate French.**

First course in intermediate sequence. Students review and expand upon their previous study of the language through short literary readings, vocabulary building, grammar study, composition, and discussions. Prerequisite(s): course 3 or placement by interview. (General Education Code(s): IH.)

### **5. Intermediate French.**

Further development of intermediate-level oral and written skills through study of vocabulary and structures. Students also read and discuss a French or Francophone play. Prerequisite(s): course 4 or placement by interview. (General Education Code(s): IH.)

**6. Intermediate French.**

Final course of intermediate sequence includes grammar study, vocabulary building, extensive writing, and discussion. Reading of a French or Francophone novel is an integral part of course. Prerequisite(s): course 5 or placement by interview. (General Education Code(s): IH.)

**13F. Oral Fluency Through Cultural Study (2 credits).**

A course for any student beyond level 3, developing oral fluency through discussion of a variety of cultural topics. Listening comprehension and speaking are emphasized through exploration of situations common to France and Francophone countries. May be offered more than once per year. Prerequisite(s): course 3. Students not having had French 3 at UCSC need to speak to a UCSC French lecturer. May be repeated for credit.

**114. French Phonetics.**

Contrastive analysis of French and English sound systems and their practical application. Intensive conversation. Language laboratory. Prerequisite(s): course 6. Enrollment limited to 20.

**German**

**1. Instruction in the German Language.**

Teaches beginning-level competence in speaking, reading, writing, and listening comprehension. Elementary sequence (1-2-3) starts in fall quarter only. (An accelerated sequence, course 1A-1B, begins winter quarter.) Not all levels are available each quarter. Check the quarterly *Schedule of Classes* for exact quarter(s) of offering.

**4. Intermediate Studies in German Language.**

Intermediate composition and conversation based on the reading of selected prose and related cultural material. Speaking, reading, writing, and listening comprehension skills are developed by extensive use of media materials. Conducted entirely in German. Not all levels are available each quarter. Check the quarterly *Schedule of Classes* for the exact quarter(s) of offering. Prerequisite(s): course 1B or 3; or placement by examination. Students interested in this course who have not taken the prerequisite should meet with the instructor prior to the first class meeting. (General Education Code(s): IH.)

**Greek**

**1. Elementary Ancient Greek.**

Instruction in the grammar of Attic Greek, together with readings, mostly in Plato, designed to prepare for the study of classical literature. The sequence begins in the fall quarter only.

**History of Art and Visual Culture**

**10G. Europe.**

An introduction to the European tradition in visual culture, from antiquity to the present, but not in chronological order. All media, including the fine arts, architecture, film, video, and installation and performance work are incorporated. Presents the major visual regimes of representation while it probes the meanings and limits of Europe and the European tradition in the context of the visual. (General Education Code(s): IH, A.)

**80T. Art of the Body in Oceania.**

Explores "art of the body," defined broadly, from various perspectives. Examines colonial representations of Oceanic bodies, self-representation through bodily adornment and display (including tattoo, scarification, body painting,

ornament, and dress), and bodily metaphors in Oceanic visual cultures. (General Education Code(s): T5-Humanities and Arts or Social Sciences, A, E.)

**105E. Ritual in Asian Religious Art.**

Examination of interaction between image and ritual in Asian religious art. Case studies from different historical periods and geographical locations (e.g., China, Tibet, Japan, Indonesia, India). Examples include mandalas, ritual bronzes, tankas, sacred caves, temples, tea ceremonies, and calligraphy. (General Education Code(s): A, E.)

**107A. Central Africa.**

Examination of visual cultures of Central Africa within a historical sequence from the Sanga archaeological excavations to contemporary easel painting. Prerequisite(s): course 10E suggested. Enrollment restricted to sophomores, juniors and seniors (recommended). Enrollment limited to 90. (General Education Code(s): A, E.)

**114. Buddhist Visual Worlds.**

Introduction to the study of Buddhist visual traditions, from their beginnings to the present day. Case studies examined with careful attention to historical, social and cultural contexts; particular emphasis on the relation of visual traditions to Buddhist practices. Enrollment restricted to sophomore, junior, and senior students. (General Education Code(s): A.)

**138. Modern Architecture, 1880–1968.**

Examines the rise of international modernism in the 20th Century and the complex political/social motivations behind its ideologies/movements. Topics include the legacy of the Beaux-Arts tradition, Expressionism, Constructivism, the primacy of Le Corbusier, Weimar Germany, Fascist architecture, Corporate Modernism, Socialist Realism, Post-Modernism, among others. (General Education Code(s): A.)

**150A. The Maya.**

The art and architecture of the Maya of southern Mesoamerica from the first century C.E. to ca. 1500. Courses 10E, 80M, 100E or 110A recommended as preparation. Enrollment limited to 35. (General Education Code(s): A.)

**174C. Constructing Memory and Place in Postwar Architecture.**

How have architects engaged memory and place in architectural projects and built landscapes since World War II? Examines memorializing, memory, and erasure of place in reconstruction of cities, creation of memorials, and design of buildings. Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 35. (General Education Code(s): A.)

**191P. Art and Identity in the Pacific: Creating and Challenging Ethnic and National Identities.**

Theoretical discussions and Pacific Basin case studies on 1) definitions of cultural, ethnic, and national identities; 2) relationship between art, museums, and construction of historical and cultural narratives; 3) ways "tradition" defined in art practices and used by groups to assert an identity in their present. Participants first develop a theoretical framework and vocabulary for analyzing artistic production in a variety of cultures. Through specific case studies, will explore how art, architecture, and museums actively contribute to define and challenge ethnic and

national identities. Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 18. (General Education Code(s): A, E.)

**191X. Cult of Mary in Byzantine Art.**

Why did the cult of the Virgin Mary become so important in Byzantine culture? Examines historical, cultural, theological, political, and social reasons for this development, seen through the interaction of Byzantine visual culture and literature. Prerequisite(s): course 104A, or juniors and seniors may enroll with permission of instructor. Enrollment limited to 18. (General Education Code(s): A.)

**Hebrew**

**1. Instruction in the Hebrew Language.**

Speaking, listening comprehension, reading, and writing fundamentals. The use of Modern Hebrew is encouraged through classroom practice supplemented by language laboratory work. Elementary sequence (1-2-3) begins in fall quarter only.

**4. Intermediate Hebrew.**

Development of the students' familiarity with the spoken and written language through grammar review, discussions, and vocabulary building. Varied readings on literary and cultural topics related to modern Israel. Prerequisite(s): course 3. Students interested in this course who have not taken the prerequisite should meet with the instructor prior to the first class meeting. (General Education Code(s): IH.)

**History**

**2A. The World to 1500.**

Surveys the rise of complex societies: the formation of classical civilizations in Afroeurasia and the Americas, post-classical empires and cross-cultural exchange, technology and environmental change, the Mongol Empire, and oceanic voyages and the origins of the modern world. (General Education Code(s): IH.)

**10B. United States History 1877 to Present.**

A survey of the political, social, and cultural history of the U.S. from 1877 to the present. Satisfies American History and Institutions Requirement. (General Education Code(s): IH.)

**40A. Early Modern East Asia.**

Surveys the history of East Asia from 1500 to 1894. Covers political, social, economic, and cultural histories of China, Japan, and Korea with the goal of perceiving a regional history that encompassed each society. (General Education Code(s): IH, E.)

**65A. Medieval Europe: 200–1000.**

A survey of Europe from the third through 10th centuries. Emphasizes cultural conflict and assimilation (Roman and Germanic, pagan and Christian, East and West). Topics include the rise of Christianity, Germanic migrations, Byzantium and Islam, feudal society, the cult of saints and relics, Vikings, and gender roles. (General Education Code(s): IH.)

**102A. The Crusades, 1000–1300.**

Examines history of Middle East from 1000–1300, in particular, Latin Crusade and colonization and Muslim response. Format chronological; topics such as acculturation, Holy War, and ethnicity examined through lectures and writing.

## PUBLICATIONS UPDATE

### **106B. Asian and Asian American History, 1941–Present.**

Analyzes immigration, race relations, war, gender ideology, family life, acculturation, political activism, interracial marriage, multiracial identity, and cultural representations between 1941 and the present. Emphasis on discussion, writing, research, and group presentations. (General Education Code(s): E.)

### **110D. The Civil War Era.**

Social, political, and economic history of the American Civil War and Reconstruction, focusing on the war's changing nature and significance, emancipation, and the postwar struggle over the future of the South and the nation. (Formerly course *The Second American Revolution: The Civil War and Reconstruction*.)

### **115A. U.S. Labor History, Colonial Period to 1919.**

Explores the history of work, working-class people, and the labor movement in the U.S., with attention to race and gender dynamics as well as to the development of workers' organizations. Satisfies American History and Institutions Requirement.

### **121A. African American History to 1877.**

A survey of pre-contact Africa, indigenous social structures, class relations, the encounter with Europe, forced migration, seasoning, resistance, Africa's gift to America, slavery and its opponents, industrialization, emigration vs. assimilation, stratification, Convention Movement, Black feminism, Civil War, and Reconstruction. (General Education Code(s): E.)

### **123A. U.S. Immigration History, 1600–1877.**

Examines immigration and settlement patterns of early British immigrants to colonial North America; the large-scale immigration of the 19th Century that brought Irish, Italian, and German immigrants to the urban areas of the eastern U.S.; and Chinese and Mexican immigrants who settled in the West and Southwest.

### **140B. History of Qing China, 1644–1911.**

Introduces students to how Qing China arose, expanded, and struggled to enter the modern world. Focuses on what the Qing empire had in common with other agrarian empires across Eurasia, commercialization and communication networks, elite mobility and peasant revolts, political legitimacy of the alien rule, maintaining social order (such as merchants' control and gender segregation), massive population growth and internal migration, as well as its conflicts with the industrial West.

### **163B. Genesis: A History.**

Introduction to historical, textual, source, and redaction criticism of the book of Genesis and to exegesis as science and ideology. Texts, history, and iconography of neighboring traditions (Mesopotamian, Ugaritic, Egyptian, Greek) are also studied when appropriate. Course 44, Literature 80A, or some basis in Hebrew or Greek is strongly suggested. Enrollment priority given to history and classical studies majors. Enrollment restricted to history and classical studies majors. *G. Hamel*

### **167. Imperial Spain 1469–1716.**

Examines the history of Spain from the time of the Catholic monarchs to the 18th century, focusing on Ferdinand and Isabel; the Inquisition; the conquest and colonization of America; the rise and fall of the Spanish Empire; the Catholic Reformation and Enlightenment; and internal transformations of the Spanish economy and society.

### **170A. French History: Old Regime and Revolution.**

French history from the Middle Ages through the Revolution. Focus on the rise and fall of "absolute" monarchy, the nature of Old Regime society, the causes and significance of the French Revolution. Attention to those who endured as well as to those who made events.

### **172A. German History.**

The development of German civilization, including philosophy and literature as well as politics and diplomacy in the nineteenth and twentieth centuries.

### **172B. German Film, 1919–1945.**

Introduction to German films from 1919 to 1945. Through combination of movies and documentaries, gain insight into political, economic, social, and cultural conditions of Weimar and Nazi Germany.

### **175C. Russian History.**

Twentieth-century Russia.

### **180A. English History.**

Emphasis on the interaction between social, economic, religious, and political developments. An attempt to place these phenomena in the context of the wider European and world scene. The period from 1485 to 1689.

### **190F. Research Seminar in the Americas.**

Students learn how to conduct research and write history. Primary and secondary sources are extensively read. Research sources include a rich array of government documents, newspapers, memories and diaries, visual material and film. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, two upper-division history courses, or permission of instructor. Enrollment restricted to junior and senior history majors. Enrollment limited to 20. (General Education Code(s): W.)

### **190U. Power and Culture in the U.S.**

Readings seminar examines, from a historian's point of view, the debate as to what extent ordinary people exert influence over U.S. culture. Class examines historical monographs from a variety of race, class, and gender perspectives. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, two upper-division history courses, or permission of instructor. Enrollment restricted to junior and senior history majors. Enrollment limited to 20. (General Education Code(s): W.)

### **194N. Comparative Studies in Modern Asian History.**

Seminar on cultural and social changes in Asia, mainly in the 19th and 20th centuries. Topics include colonial encounters, cities, narratives of ordinary persons, nationalism and identity, visual cultures, and Orientalism. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, two upper-division history courses, or permission of instructor. Enrollment restricted to junior and senior history majors. Enrollment limited to 20. (General Education Code(s): W, E.)

### **196E. Modern Irish History.**

Aims to illuminate major themes and turning points of modern Irish history: the causes and consequences of the famine; the development of Irish nationalism; revolution, civil war, and partition; and the recent economic boom. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, two upper-division history

courses, or permission of instructor. Enrollment restricted to junior and senior history majors. Enrollment limited to 20. (General Education Code(s): W.)

### **196N. Eastern European Jewish Social History.**

Study of 19th- and 20th-century Eastern European and Russian Jewish social history. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, two upper-division history courses, or permission of instructor. Enrollment restricted to junior and senior history and German studies majors. Enrollment limited to 20. (General Education Code(s): W, E.)

### **200. Methods and Theories of History.**

An overview of theories, methods, and philosophies concerning the nature and production of history. Topics vary with instructor. Enrollment restricted to graduate history students and others by permission of instructor. Enrollment limited to 20.

### **221. Empires and New Nations in the Americas.**

Compares the history of the colonial and 19th-century Americans through a world-history perspective. Focuses on the interrelated themes of indigenous histories, slavery and other forms of servitude, commodity production, and the meaning of equality and freedom in new nations. Enrollment restricted to graduate students. Enrollment limited to 15.

### **230C. Readings in 20th-Century China.**

A survey of major Western-language works and historiographical controversies in Chinese history from 1900 to the present. Weekly readings emphasize particular social and political movements as well as long-term changes in urban and rural society. Enrollment restricted to graduate students. Enrollment limited to 20.

### **280A. History Graduate Proseminar: Teaching Pedagogy (2 credits).**

Devoted to professionalism and socialization of history graduate students. Includes formal and informal meetings with faculty and other graduate students. Topics include TAs, designing course syllabi, pedagogy, teaching technologies, and teaching in different venues. This course is required for first-year students; however, it is open to all other history graduate students as needed. Enrollment restricted to graduate history majors. May be repeated for credit.

## **History of Consciousness**

### **80N. Politics of Emotion/Emotion of Politics.**

Engages histories of affect, the complex realms of the senses, feelings, emotions, and the body. Asks questions about the role of emotions in the making and unmaking of the contemporary political order and marginal cultures of feeling. (General Education Code(s): T5-Humanities and Arts or Social Sciences.)

### **217A. Seminar: Topics in Feminist Theory.**

Studies in the theory and history of feminist consciousness; analysis of the main areas of a specifically feminist interest; determination of the theoretical bases for a distinctively feminist perspective on the principal problems of the life and human sciences; examination of relations of class, race, and gender in feminist theory and practice. Enrollment restricted to graduate students. Enrollment limited to 15. May be repeated for credit.

**220A. Globalization and Cultural Process.**

Discusses theories of globalization and its cultural effects. How are cultural forms destroyed, imposed, appropriated, hybridized, translated, invented, and reinvented at local, national, regional, and transnational levels? Historical and ethnographic focus on tourist encounters, museums, nativisms, film/media performances, etc. Enrollment restricted to graduate students. Enrollment limited to 20. May be repeated for credit.

**234A. Social Movements in the 20th-Century U.S.**

The history of major social movements in the 20th-century U.S., including populism, labor, socialism and communism, civil rights, the women's movement, the anti-nuclear movement. Various theoretical perspectives on the rise and fall of social movements. Enrollment restricted to graduate students. Enrollment limited to 15. Offered in alternate academic years. May be repeated for credit.

**Hindi**

**1. Elementary Hindi.**

An in-depth introduction to modern Hindi including the Devanagari script. Through a combination of graded text, written assignments, audiovisual material and computer-based exercises, provides cultural insights and increases proficiency in understanding, speaking, reading and writing Hindi. Emphasis on spontaneous self-expression.

**4. Intermediate Hindi.**

Continuation and completion of in-depth introductory sequence in modern Hindi including Devanagari script. Through combination of graded text, written assignments, audiovisual material, and computer-based exercises, provides cultural insights and increases proficiency in understanding, speaking, reading, and writing Hindi. Emphasis on spontaneous self-expression. Prerequisite(s): course 3 or equivalent; familiarity with Devanagari script. Enrollment limited to 25. (General Education Code(s): IH.)

**Information Systems Management**

**50. Business Information Systems.**

Addresses the use of information systems (IS) within a business enterprise. Subjects include computer hardware and software concepts, system design and implementation, telecommunications, data management, transaction-based systems, management information systems, and the use of IS to compete. Intended for information system management and business management economics majors.

**101. Management of Technology Seminar (2 credits).**

Uses weekly talks by leading industry practitioners and university researchers to provide in-depth exposure to the management of technology. Topics covered include product development, operations, strategy, finance, and marketing for technologies such as software and information systems. May be repeated for credit.

**105. Management of Technology I.**

An in-depth examination of technological, strategic, marketing, and financial methods and analytical tools for the management of technology to enable cost-effective and rapid development of profitable and high quality technologies. Includes case studies and a comprehensive project. Students who receive credit for this course cannot also receive credit for course 80A; students who receive

credit for course 205 cannot also receive credit for this course. Prerequisite(s): Mathematics 19B or 11B or Engineering 11B or Economics 11B.

**205. Management of Technology I.**

Addresses technological, strategic, marketing, financial methods, and analytical tools for management of technology in an integrated manner that enables the cost-effective and rapid development of profitable and high quality technologies. Includes case studies and a comprehensive project. Students cannot receive credit for this course and either course 80A or 105. Enrollment restricted to juniors, seniors, and graduate students.

**207. Random Process Models in Engineering.**

A first graduate course in stochastic process modeling and analysis with an emphasis on applications in technology management, information systems design, and engineering. Enrollment restricted to graduate students. Prerequisite: Computer Engineering 107 or other undergraduate probability course recommended.

**209. Knowledge Services and Data Analytics.**

Provides students with the systematic methodology and analytical tools to address the field of knowledge services in an integrated manner. Focuses on data, text, and business analytics. Includes training in the basic elements of stochastic optimization and other algorithmic approaches, such as stochastic dynamic programming, statistics, and machine learning. These methods enable corporate enterprises to achieve rapid, effective, and profitable optimization of knowledge-services management. Students are expected to have undergraduate preparation in probability and statistics. Undergraduates may enroll with instructor approval. Enrollment restricted to graduate students. Students are expected to have undergraduate preparation in probability and statistics. Undergraduates may enroll with instructor approval.

**280I. Seminar on Information Retrieval and Knowledge Management (2 credits).**

Seminar series discussing advanced topics in information retrieval and knowledge management. Current research and literature are presented during each meeting. Enrollment restricted to graduate students. Enrollment limited to 20. May be repeated for credit.

**Italian**

**1. Instruction in the Italian Language.**

Aural comprehension, speaking, reading, writing, and laboratory. Check the quarterly *Schedule of Classes* for exact quarter(s) of offering. Elementary sequence (1-2-3) begins in fall quarter.

**4. Intermediate Italian.**

Short stories, articles, films, and newsclips are used as the basis for studying intermediate-level conversation and composition. Laboratory assignments involve use of the World Wide Web, conversations with native speakers, films and video clips. Students interested in this course who have not taken the prerequisite at UCSC should meet with the instructor, preferably prior to the first class meeting, and take the placement examination. Prerequisite(s): course 1B or 3, or placement by examination. Enrollment limited to 25. (General Education Code(s): IH.)

**Japanese**

**1. Instruction in the Japanese Language.**

Goal is to understand and apply basic rules of grammar and the sociolinguistic rules of the language needed to carry out various, simple tasks; to learn to read and write hiragana, katakana, and 40 kanji.

**4. Intermediate Japanese.**

Goal is to understand and apply additional rules of grammar and the sociolinguistic rules of the language needed to carry out various tasks; to further develop skills in reading and writing; to learn to read and write 70 additional kanji. Prerequisite(s): course 3; or placement by examination. (General Education Code(s): IH.)

**50. Preadvanced Japanese.**

Intensive work in Japanese grammar to strengthen grammatical correctness and excellence of expression. A comprehensive textbook and drill book cover a wide range of styles and topics. Course is prerequisite to upper-division Japanese language courses. Prerequisite(s): course 6. Students interested in this course who have not taken the prerequisite should meet with the instructor, preferably prior to the first class meeting. Enrollment limited to 20. (General Education Code(s): IH.)

**Latin American and Latino Studies**

**1. Introduction to Latin American and Latino Studies.**

Interdisciplinary introduction presenting the elements for studying Latin American culture, society, economics, and politics, as well as the dynamics of Latino communities in the U.S. Special attention paid to issues of race, gender, and class, to emerging political and economic shifts in the Americas, and to new local and transnational efforts for social change on the part of Latin America's peoples and Latinos in the U.S. (General Education Code(s): IS, E.)

**10. Bridging Latin American and Latino Studies.**

Interdisciplinary exploration of transnational migrations; social inequalities; collective action and social movements; and cultural productions, products, or imaginaries. Examines how transnational migration and hemispheric integration are transforming Latin American studies and Chicana/o-Latina/o studies. Explores the influence of neoliberalism and globalization, especially the intersection of critical analysis and social-justice praxis. Completion of course 1 highly recommended. (General Education Code(s): E.)

**80F. Latinos in the U.S.: A Comparative Perspective.**

Analyzes the Latino experience in the U.S. with a special focus on strategies for economic and social empowerment. Stresses the multiplicity of the U.S. Latino community, drawing comparative lessons from Cuban-American, Puerto Rican, Chicano/Mexicano, and Central American patterns of economic participation and political mobilization. (General Education Code(s): T3-Social Sciences, E.)

**80Q. Musica Latina.**

Surveys various musical forms and styles that have developed in Latin America and Latino communities in the U.S. Discusses concept of hybridity and grapples with this as a central issue in the evolution of Latin American/Latino music. Addresses migration of music, which not only contributes to its distribution but also

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to the evolution of musical practices of forms, styles and genres across borders. (General Education Code(s): T3-Social Sciences, E.)

### **80X. Central American Peoples and Cultures.**

Examines contemporary societies and peoples of Central America considering how, in recent decades, media, history, war, cultural production, and migration have shaped Guatemala, Honduras, El Salvador, Nicaragua, and Costa Rica both as individual nations and as a region. Enrollment limited to 60. (General Education Code(s): T5-Humanities and Arts or Social Sciences, E.)

### **81A. Mexican Folklórico Dance (2 credits).**

Provides instruction in the aesthetic, cultural, and historical dimensions of Mexican folklórico dance. Students taught choreographed dances from various regions of Mexico and also learn dance techniques (técnica) and stage make-up application. Additional workshops and lectures offered to supplement class. Open to all students; no previous experience required. (Also offered as Anthropology 81A. Students cannot receive credit for both courses.) May be repeated for credit. (General Education Code(s): A.)

### **110B. El Area Andina Hoy.**

Taught in Spanish. Offers contemporary debates on Andean societies through a prism of recent interdisciplinary contributions (anthropological, sociological, political scientific, historical). Aims at understanding neo-regionalism, cultural history, and impact of globalization on specific localities. Andean societies are adjacent to the Amazon, a complementary aspect offered in this course. Prerequisite(s): course 1 or Anthropology 1, and Spanish 6 or Spanish for Spanish Speakers 63 or equivalent. Enrollment limited to 30. (General Education Code(s): E.)

### **140. Rural Mexico in Crisis.**

Focuses on political, social, economic, and environmental changes in rural Mexico from the 1910 revolution through the Zapatista rebellion. Emphasizes the interaction between the state, markets, and rural civil society, covering agrarian reform, agricultural policy, grassroots development initiatives, democratization, indigenous movements, natural resource management, and migration. Previous completion of course 100A and/or course 80D recommended. Prerequisite(s): Previous completion of course 100A and/or course 80D recommended. Enrollment restricted to juniors and seniors. Sophomores may enroll with permission from instructor. (General Education Code(s): E.)

### **143J. Global Political Economy.**

Analyzes the global, social, economic, and political forces that shape transnational, national, and regional societal formations and consequently the entire environment for social change. Examines the evolution of revolutionary struggle and its origins within and impact upon the evolving capitalist system.

### **152. Media and Commodities Between the Americas.**

Examines the circuits of media, commodities, and migration connecting the Americas in an age of globalization. Issues of states, transnational markets, social relations, and cultural representations addressed. Relationship between consumption, nationalism, and globalization is considered critically. Enrollment limited to 35. (General Education Code(s): E.)

### **173. Latin American Immigration to the U.S.**

Interdisciplinary examination of Latin American immigration to the U.S. Topics include history of U.S. as an immigrant nation, economic and political context for migration, immigration process/experience, U.S. immigration/refugee policies, anti-immigrant backlash today, issues facing Latino immigrant communities to the U.S., bi-national communities. (General Education Code(s): E.)

### **175. Migration, Gender, and Health.**

Through an interdisciplinary, cross-border approach, examines complex nature of Latino health in relation to migration and how women and men experience health problems differently. Examines how health problems are created by economic and social conditions, migrants' access to care, and how agencies can design culturally sensitive programs. Prerequisite(s): course 100A. (General Education Code(s): E.)

### **194N. Las izquierdas en América Latina: ayer, hoy y mañana.**

Taught in Spanish. Focuses on legacies of Latin America's popular and revolutionary movements since the 1960s, current transformations, and 21st-century prospects. Major emphasis on contemporary leftist or left-leaning parties in power in the early 2000s, as well as new perspectives/re-evaluations/debates about past movements. Also includes cross-border strategies, movements, and alliances for social justice. Enrollment restricted to junior and senior Latin American and Latino Studies majors, minors, combined or double majors. Enrollment limited to 20. (General Education Code(s): E.)

### **230. Political Ecology in Latin America.**

Examines the foundation and current literature on political ecology, with emphasis on issues in Latin America. Topics include the appropriation of "Nature"; degradation and deforestation; conservation policies and politics; land distribution and property; and indigenous resistance. Enrollment restricted to graduate students. Enrollment limited to 14.

## **Latin**

### **1. Elementary Latin.**

Instruction in Latin grammar, using a modern Latin method, designed to prepare for the study of classical literature. The sequence begins in the fall quarter only.

## **Legal Studies**

### **10. Introduction to Legal Process.**

Introduction to U.S. and comparative legal institutions and practices. Examines diverse areas of law from torts to civil rights to international human rights. Why is America portrayed as having an activist legal culture; why is law used to decide so many questions from presidential elections to auto accidents; can law resolve disputes that, historically, have led to war and violence; is the legal system fair and/or effective, and, if so, for whom and under what conditions? (General Education Code(s): IS.)

### **105A. Ancient Political Thought.**

Ancient political ideas in context of tension between democracy and empire, emergence of the psyche, and shift from oral to written culture. Emphasis on Athens, with Hebrew, Roman, and Christian departures and interventions. Includes Sophocles, Thucydides, Socrates, Plato, Aristotle, Stoics, the Bible, and Augustine. (Also offered

as Politics 105A. Students cannot receive credit for both courses.) Enrollment restricted to legal studies majors during priority period.

### **114. Jews, Anti-Semitism, and the American Legal System.**

Explores how Jews have influenced and been impacted by the American legal system. Students explore significant cases, debates, and trends in the law as it relates to Jewish identity, religious freedom, and conceptions of justice. Enrollment restricted to legal studies majors during priority enrollment only.

### **120B. Society and Democracy in American Political Development.**

Examines role of social forces (e.g., race, class, and gender) in development of the American democratic processes and in the changing relationship between citizen and state. Course materials address ideas, social tensions, and economic pressures bearing on social movements, interest groups, and political parties. (Also offered as Politics 120B. Students cannot receive credit for both courses.) Enrollment restricted to legal studies majors during priority period. Satisfies American History and Institutions Requirement.

### **128. Poverty and Public Policy.**

Studies the causes, consequences, and governmental response to urban poverty in the U.S. Topics include how public policy, the macroeconomy, race, gender, discrimination, marriage, fertility, child support, and crime affect and are affected by urban poverty. Emphasizes class discussion and research. (Also offered as Economics 128. Students cannot receive credit for both courses.) Prerequisite(s): satisfaction of Entry Level Writing and Composition requirements; ECON 100A & 113 or consent of instructor. Enrollment restricted to economics, business management economics, global economics, legal studies, or economics combined major Enrollment limited to 35. (General Education Code(s): W, E.)

### **128I. Race and Criminal Justice.**

An introduction to comparative and historical analyses of the relations between race and criminal justice in the U.S. Emphasis on examinations of structural mechanisms that help maintain and perpetuate racial inequality in law, criminal justice, and jury trials. (Also offered as Sociology 128I. Students cannot receive credit for both courses.) Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 120.

### **149. Environmental Law and Policy.**

Surveys a wide range of topics in environmental law, including population control, state and federal jurisdiction, land and resources control, public land management, pollution control, and private rights and remedies. Students read a large number of judicial cases and other legal documents. (Also offered as Environmental Studies 149. Students cannot receive credit for both courses.) Enrollment restricted to junior and senior legal studies majors. Enrollment limited to 60.

### **157. Political Jurisprudence.**

Explores some themes in legal and political theory, especially on the relationship of theories of justice, law, and ethics. Enrollment restricted to legal studies majors during priority period.

**159. Property and the Law.**

Beginning with an examination of the concept of property, the class covers how different cultures characterize property and determine “ownership” and the laws and policies that define property in modern society. Topics include theories of property law, common property, property and natural resources, zoning, regulatory takings, and property on the Internet. Enrollment restricted to legal studies majors during priority period.

**162. Legal Environment of Business.**

A study of law and the legal process, emphasizing the nature and function of law within the U.S. federal system. Attention is given to the legal problems pertaining to contracts and related topics, business association, and the impact of law on business enterprise. (Also offered as Economics 162. Students cannot receive credit for both courses.) Prerequisite(s): Economics 100A.

**Linguistics**

**52. Syntax I.**

An introduction to transformational syntax and syntactic investigation, developed through the study of central aspects of English syntax. A major purpose is to introduce students to the study of language as an empirical science. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. (General Education Code(s): IH.)

**53. Semantics I.**

Introduction to the logical foundations of natural language semantics. Logical and semantic relations, simple set theory, logical representations (propositional and predicate calculi, modal and tense logics) and their interpretations. A basic literacy course in the language of logical representation. (General Education Code(s): IH.)

**101. Phonology I.**

Introduction to how sounds pattern in grammars—why they vary, how they combine, etc. Emphasis is on developing theories to explain the patterns. Topics include distinctive feature theory, phonemic analysis, autosegmental phonology, and principles of syllabification and stress. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, course 20 or 51. (General Education Code(s): W.)

**124. Language Typology.**

Introduces the branch of linguistics whose goal is to describe and explain the structural diversity of the world’s languages. Focuses on what is known about variation in particular domains (e.g., syllable structure, word order, evidentiality), and how it might be explained. Prerequisite(s): course 52 or 55, and course 101. Enrollment limited to 40.

**125. Foundations of Linguistic Theory.**

Survey of some of the history and foundational assumptions of generative grammar and also looks at some of the influence of generative linguistic theorizing on disciplines outside linguistics, notably psychology and philosophy. Prerequisite(s): course 113 or 116. Enrollment limited to 25.

**151. Phonetic Analysis.**

Introduction to instrumental phonetic analysis—analysis using experimental methods. Emphasis is on the acoustics and perception of speech. Prerequisite(s): course 101.

**183. Structure of French.**

The phonology, morphology, and syntactic aspects of French. Some knowledge of French is helpful. Prerequisite(s): course 55 or 52, and 101.

**187. Structure of Japanese.**

The phonology, morphology, and syntax of Japanese. Some knowledge of Japanese is also required. Prerequisite(s): course 55 or 52, and 101. Offered in alternate academic years.

**190. Senior Research (2 credits).**

Students produce research paper or other significant project to satisfy the capstone requirement. Prerequisite(s): course 101, and either course 52 or 55. Concurrent enrollment in a specified upper division course is required. Enrollment restricted to senior linguistics and language studies majors.

**211. Phonology A.**

First part of a three quarter introduction to phonology. Topics of the sequence include fundamentals of acoustic phonetics; introduction to optimality theory; theories of syllabification, stress, and prosodic organization; prosodic morphology; advanced issues in faithfulness and correspondence; segmental and suprasegmental processes. Enrollment restricted to graduate standing or consent of instructor.

**219. Phonology Seminar.**

Advanced topics in phonology drawn from the current research interests of the instructor. Prerequisite(s): course 212. Enrollment restricted to graduate standing or consent of instructor. May be repeated for credit.

**221. Syntax A.**

Introduction to syntactic theory. Phrase structure; subcategorization; lexical entries; passive; infinitival constructions. Enrollment restricted to graduate standing or consent of instructor.

**231. Semantics A.**

Introduction to linguistic semantics: nature of lexical entries, thematic relations, representation of logical form; relation between semantic interpretation and syntactic representation, quantification and scope relations, reference and presupposition. Enrollment restricted to graduate standing or consent of instructor.

**239. Semantics Seminar.**

Advanced topics in semantics drawn from the current research interests of the instructor. Prerequisite(s): course 232. Enrollment restricted to graduate standing or consent of instructor. May be repeated for credit.

**Literature**

**42V. Student Directed Seminar: Psychoanalysis and Civilization—The Work of Norman O. Brown.**

Survey of the writings of the late UCSC professor Norman O. Brown. Themes: civilization as neurosis; the body in history; poetry and apocalypse. Also selections by Nietzsche, Freud, Marx, Ovid, and others. Enrollment limited to 20. *C. Connery*

**61M. Approaches to Classical Myth.**

Introduction to Greek myths, including selected ancient texts and visual artifacts, historical and cultural context of their creation and reception, modern theoretical

approaches such as structuralism and psychoanalysis, and interpretations in various media. (General Education Code(s): IH.)

**80N. Latino Expressions in the U.S.**

An introduction to Latino literature and culture in the U.S. A study of the creative expressions of Chicanos/as, Nuyoricans, Cuban Americans, and other Latin Americans in the U.S. Enrollment limited to 60. (General Education Code(s): T4-Humanities and Arts, E.) *N. Klahn*

**101. Theory and Interpretation.**

Contemporary approaches to literary and cultural theory, with emphasis on how theoretical perspectives advance and broaden the reading of literary texts. Introduction to important new theoretical developments and their antecedents. Literature majors should complete this course as early as possible. Topics: (F) literary hermeneutics; (W) authorship; (S) post-humanism and the question of the animal. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to literature and proposed literature majors and literature minors. May be repeated for credit. (General Education Code(s): W.)

**200. Proseminar.**

The proseminar provides a common experience for entering students, facilitates exchange of ideas and approaches to literary and extra-literary texts, critical issues, and theoretical problems. It focuses on broad aspects of the history of theory and criticism, on the students’ critical writing, and on aspects of professional development. Enrollment restricted to graduate students.

**201. The Pedagogy of Literature (1 credit).**

Provides training for graduate students in university-level pedagogy in general and in the pedagogy of literature specifically. Coordinated by a graduate student who has had substantial experience as a teaching assistant, under the supervision of a faculty member. Enrollment restricted to graduate students. May be repeated for credit.

**Creative Writing**

**10. Introduction to Creative Writing.**

Introduction to the crafts and techniques of poetry, fiction, and creative non-fiction, identifying and exploring traditional and non-traditional literary forms and genres while working on individual creative writing projects. An author reading and two workshop section per week. Prerequisite: satisfaction of the Entry Level Writing requirement. Enrollment restricted to first-year students, sophomores, and juniors. May be repeated for credit. (General Education Code(s): A.)

**52. Intermediate Fiction Writing.**

An intermediate-level course in fiction designed for prospective creative writing majors. Prerequisite(s): submission of writing at first class meeting. May be repeated for credit. (General Education Code(s): A.)

**53. Intermediate Poetry Writing.**

An intermediate-level course in poetry designed for prospective creative writing majors. Prerequisite(s): submission of writing at first class meeting. May be repeated for credit. (General Education Code(s): A.)

**180. Advanced Writing: Fiction.**

Intensive work in writing fiction. Satisfies the Creative Writing Literature concentration. Enrollment restricted

to creative writing literature majors or permission of instructor. May be repeated for credit. (General Education Code(s): A.)

**183. Advanced Writing: Poetry.**

Intensive work in writing poetry. Satisfies the Creative Writing Literature concentration. Enrollment restricted to creative writing literature majors or permission of instructor. May be repeated for credit. (General Education Code(s): A.)

**English-Language Literatures**

**103A. British Literature and Culture to 1740.**

Literature and society to 1740. Topic: early modern women writers. Satisfies the English and Pre- and Early Modern Studies Literature concentrations; also satisfies the Pre- and Early Modern Studies distribution requirement. May be repeated for credit.

**155B. Regions in American Literature.**

Examines development of regional writing in the U.S. Topic: San Francisco. Satisfies the English and Modern Literature concentrations. May be repeated for credit.

**160C. Postcolonial Writing.**

Introduces students to a selection of postcolonial theory and texts. Topic: literature of the Caribbean and Pacific. Satisfies the English and Modern Literature concentrations. May be repeated for credit.

**190A. Individual Authors.**

Intensive examination of works by individual authors. Topics: (F) Section 01—William Carlos Williams, Section 02—Jack Kerouac; (W) Section 01—Charles Dickens, Section 02—V.S. Naipaul; (S) J.M. Coetzee. Satisfies the English Literature concentration; also satisfies the Senior Seminar distribution requirement. Prerequisite(s): Literature 101. Enrollment restricted to senior literature majors. May be repeated for credit. (F)

**280. Topics in English Language Literature.**

Topics: (F) *The Tempest*, *Moby Dick*; (W) 19th-century U.S. poetry. Enrollment restricted to graduate students. May be repeated for credit.

**French Literature**

**131. The Middle Ages.**

Study of 12th- and 13th-century texts, with attention to problems of history and social change. In modern translations with selected readings in Old French or Provençal. Topic: Amour courtois et société féodale. Satisfies the French and Pre- and Early Modern Studies Literature concentrations; also satisfies the Pre- and Early Modern distribution requirement. May be repeated for credit.

**230. Studies in Literary and Cultural History.**

In-depth examination of one period of French literature. Topics: (F) Amour courtois et société féodale; (S) French animals, early and modern. Enrollment restricted to graduate students. May be repeated for credit.

**German Literature**

**167. Modern German Literature and Film.**

Discusses a range of modern and contemporary German texts, including poetry, drama, and film. Satisfies the German and Modern Literature concentrations. May be repeated for credit.

**Greek Literature**

**105. Special Topics in Greek Literature.**

Readings in selected ancient Greek texts for advanced students. Texts vary from year to year. Focus is on translation and interpretation; requirements normally include both translation exams and interpretive essays. Topic: St. Paul and Universalism. Satisfies the Greek and Pre- and Early Modern Literature concentrations; also satisfies the Global and Pre- and Early Modern Distribution Requirement. Taught in conjunction with Pre- and Early Modern Literature 102. May be repeated for credit.

**Latin Literature**

**104. Special Topics in Latin Literature.**

Satisfies the Latin and Pre- and Early Modern Literature concentrations; also satisfies the Poetry and Pre- and Early Modern distribution requirements. May be repeated for credit.

**Italian Literature**

**102. Introduction to Italian Literature.**

A close reading of a small number of texts (lyric, dramatic, narrative) representing the major authors and periods of Italian literature, with intensive practice in spoken and written Italian. Satisfies the Italian and Modern Literature concentrations.

**Modern Literary Studies**

**124A. Eighteenth Century to Modernism.**

Major works of European fiction in their social, cultural, and intellectual contexts. Emphasizes the 19th- and 20th-century novels. Works are read in translation. Satisfies the Modern Literature concentration.

**125N. The Horror Film.**

Shifting definitions of horror in the movies from the late silent period to the present through close analysis of representative films and critical texts: genre construction, history of modes of production, and shifts in discourse of horror. Satisfies the Literature and Film and Modern Literature concentrations.

**144E. Hebrew Poetry.**

Hebrew poetry—Biblical, medieval, modern—explores cultural and literary issues central to our contemporary world. Texts and discussion focus on Jewish and Israeli literary traditions. Satisfies the Modern Literature concentration; also satisfies the Poetry distribution requirement. May be repeated for credit.

**160K. Great French Novels.**

Provides an introduction to important French novels of the nineteenth and twentieth centuries. All works are read in English. Satisfies the Modern Literature concentration.

**167G. Goethe's Faust.**

An intensive study of Goethe's *Faust*, Parts I and II. All works are read in English. Satisfies the Modern Literature concentration; also satisfies the Poetry distribution requirement.

**190K. Readings in Tolstoy.**

Intensive study of Tolstoy's major work *War and Peace*. Satisfies the Modern and World Literature concentrations; also satisfies the Global and Senior Seminar distribution requirements. Prerequisite(s): Literature 101. Enrollment restricted to senior literature majors.

**219. Feminist Theories/Historical Perspectives.**

A reciprocal, critical investigation of the concerns and debates raised by contemporary gender theories (feminist, gay, and lesbian) on the one hand, and various historically specific texts and contexts, on the other. Enrollment restricted to graduate students.

**280. Topics in Theory.**

Explores issues arising in both the modern practice of criticism and in writings on the theory of criticism. Topic: György Lukács: narrative and historical representation. Enrollment restricted to graduate students. May be repeated for credit.

**Pre- and Early Modern Literature**

**102. Ancient Literature in Cross-Cultural Perspective.**

Topic: (F) St. Paul and Universalism. Satisfies the Pre- and Early Modern and World Literature concentrations; also satisfies the Global and Pre- and Early Modern distribution requirements. Taught in conjunction with Greek Literature 105. Prerequisite(s): Greek Literature 100 or Latin Literature 100 or Literature 80A or permission of instructor. May be repeated for credit.

**128. Medieval Epic.**

Medieval reworkings of stories and motifs drawn from the "barbarian" or Germanic tradition including *Beowulf*, *The Song of Roland*, *Nibelungenlied*, Snorri Sturlason: *King Harald's Saga* from *Heimskringla*, and *Njal's Saga*.

**131. Love and Madness in Medieval Literature.**

A study of the development of the courtly love tradition in medieval Italy and France, with close attention to the construction of gender and authorship, and to the interconnections between Eros, madness, and death. Works include troubadour poetry, the romances of Chretien de Troyes, tales of Marie de France, Dante, Petrarch, Boccaccio.

**Spanish/Latin American/Latino Literature**

**60. Introduction to Literary Genres.**

The study of poetry, drama, and prose in Spain and Latin America. (General Education Code(s): IH, E.)

**130E. Latin American Poetry.**

Poets from "modernismo" to the present in Spanish America. Studies how this poetry attempts to define Latin America, its past, its present history, and its vision for the future. Satisfies the Modern, Spanish, and World Literature concentrations; also satisfies the Global and Poetry distribution requirements. (General Education Code(s): E.)

**135F. Cine y Literatura.**

Introduction to analysis and interpretation of major Spanish-language films derived from literary works by Latin American and Spanish authors. Explores mechanisms of representation and adaptation.

**223. Writing and Re-Writing of the Conquest and Colonial Period in Spanish America.**

Study of 1) the writings (chronicles, memoirs, diaries, letters) comprising European and indigenous accounts of the encounter and indigenous, criolla, and mestiza writings during the colony; and 2) the re-writings of these events in contemporary post-colonial novels. Enrollment restricted to graduate students.

**World Lit and Cultural Studies**

**115A. Fiction in a Global Context.**

Comparative examination of fiction in the modern world and of fictional responses to social change and crisis. Topic: (F) the Black Fantastic; (S) introduction to the postcolonial. Satisfies the Modern and World Literature concentrations; also satisfies the Global distribution requirement. May be repeated for credit.

**118. Literature of the Asian Diaspora.**

Study of literature of the Asian diaspora, attempting to discover and define a growing body of contemporary writing under this rubric, including immigrant/migrant histories, memories of exile and refuge, as well as the fiction of imagined homelands. (General Education Code(s): E.)

**209. Topics in Cultural Studies.**

Topics: (F) Asia/Pacific. (W) Section 01&mdash;postcolonial studies; Section 02&mdash;Medieval Mediterranean; Section 03&mdash;world versions of pastoral. (S) Diaspora and Black techno-poetics.. Enrollment restricted to graduate students. May be repeated for credit.

**Mathematics**

**2. College Algebra for Calculus.**

Operations on real numbers, complex numbers, polynomials, and rational expressions; exponents and radicals; solving linear and quadratic equations and inequalities; functions, algebra of functions, graphs; conic sections; mathematical models; sequences and series. Prerequisite(s): placement exam score of 12 or higher.

**3. Precalculus.**

Inverse functions and graphs; exponential and logarithmic functions, their graphs, and use in mathematical models of the real world; rates of change; trigonometry, trigonometric functions, and their graphs; and geometric series. Students cannot receive credit for both course 3 and Applied Mathematics and Statistics 3. Applied Mathematics and Statistics 3 can substitute for course 3. Prerequisite(s): course 2 or placement exam score of 20 or higher. (General Education Code(s): Q.)

**11A. Calculus with Applications.**

A modern course stressing conceptual understanding, relevance, and problem solving. The derivative of polynomial, exponential, and trigonometric functions of a single variable is developed and applied to a wide range of problems involving graphing, approximation, and optimization. Students cannot receive credit for both this course and course 19A or Applied Mathematics and Statistics 11A or Economics 11A. Prerequisite(s): course 3 or Applied Mathematics and Statistics 3; or placement exam score of 31 or higher; or AP Calculus AB exam score of 3 or higher. (General Education Code(s): IN, Q.)

**11B. Calculus with Applications.**

Starting with the fundamental theorem of calculus and related techniques, the integral of functions of a single variable is developed and applied to problems in geometry, probability, physics, and differential equations. Polynomial approximations, Taylor series, and their applications conclude the course. Students cannot receive credit for this course and course 19B, or Applied Mathematics and Statistics 11B, or Economics 11B. Prerequisite(s): course 11A or AP Calculus AB exam score of 4 or 5, or

BC exam score of 3 or higher, or IB Mathematics Higher Level exam score of 5 or higher. (General Education Code(s): IN, Q.)

**19A. Calculus for Science, Engineering, and Mathematics.**

The limit of a function, calculating limits, continuity, tangents, velocities, and other instantaneous rates of change. Derivatives, the chain rule, implicit differentiation, higher derivatives. Exponential functions, inverse functions, and their derivatives. The mean value theorem, monotonic functions, concavity, and points of inflection. Applied maximum and minimum problems. Students cannot receive credit for both this course and course 11A or Applied Mathematics and Statistics 11A or Economics 11A. Prerequisite(s): course 3 or Applied Mathematics and Statistics 3 or placement exam score of 40 or higher or AP Calculus AB exam score of 3 or higher. (General Education Code(s): IN, Q.)

**19B. Calculus for Science, Engineering, and Mathematics.**

The definite integral and the fundamental theorem of calculus. Areas, volumes. Integration by parts, trigonometric substitution, and partial fractions methods. Improper integrals. Sequences, series, absolute convergence and convergence tests. Power series, Taylor and Maclaurin series. Students cannot receive credit for both this course and course 11B, Applied Math and Statistics 11B, or Economics 11B. Prerequisite(s): course 19A or AP Calculus AB exam score of 4 or 5, or BC exam score of 3 or higher, or IB Mathematics Higher Level exam score of 5 or higher. (General Education Code(s): IN, Q.)

**20A. Honors Calculus.**

Challenging course designed to approach single-variable calculus from the perspective of modern mathematics. Emphasis is on the evolution and historical development of core concepts underlying calculus and analysis. Prerequisite(s): placement exam score of 46 or higher; or AP Calculus AB exam score of 4 or 5; or BC exam of 3 or higher; or IB Mathematics Higher Level exam score of 5 or higher. Enrollment limited to 60. (General Education Code(s): IN, Q.)

**21. Linear Algebra.**

Systems of linear equations, matrices, determinants. Introduction to abstract vector spaces, linear transformation, inner products, geometry of Euclidean space, and eigenvalues. One quarter of college mathematics is recommended as preparation. (General Education Code(s): Q.)

**22. Introduction to Calculus of Several Variables.**

Functions of several variables. Continuity and partial derivatives. The chain rule, gradient and directional derivative. Maxima and minima, including Lagrange multipliers. The double and triple integral and change of variables. Surface area and volumes. Applications from biology, chemistry, earth sciences, engineering, and physics. Students cannot receive credit for this course and course 23A. Prerequisite(s): course 11B or 19B or 20B or AP calculus BC exam score of 4 or 5.

**23A. Multivariable Calculus.**

Vectors in n-dimensional Euclidean space. The inner and cross products. The derivative of functions from n-dimensional to m-dimensional Euclidean space is studied as a linear transformation having matrix representation. Paths in 3-dimensions, arc length, vector differential

calculus. Taylor's theorem in several variables, extrema of real-valued functions, constrained extrema and Lagrange multipliers, the implicit function theorem, some applications. Students cannot receive credit for this course and course 22. Prerequisite(s): course 19B or 20B or AP calculus BC exam score of 4 or 5.

**23B. Multivariable Calculus.**

Double integral, changing the order of integration. Triple integrals, maps of the plane, change of variables theorem, improper double integrals. Path integrals, line integrals, parametrized surfaces, area of a surface, surface integrals. Green's theorem, Stokes theorem, conservative fields, Gauss' theorem. Applications to physics and differential equations, differential forms. Prerequisite(s): course 23A.

**30. Mathematical Problem Solving.**

Students learn techniques of problem solving such as induction, contradiction, exhaustion, dissection, analogy, generalization, specialization, and others in the context of solving problems drawn from number theory, probability, combinatorics, graph theory, geometry, and logic. Prerequisite(s): course 11A or 19A or 20A or Math Placement Exam score of 40 or higher.

**100. Introduction to Proof and Problem Solving.**

Students learn the basic concepts and ideas necessary for upper-division mathematics and techniques of mathematical proof in the context of specific topics. Introduction to sets, relations, elementary mathematical logic, proof by contradiction, mathematical induction, and counting arguments. Prerequisite(s): courses 11A and 11B or 19A and 19B or 20A and 20B. Enrollment limited to 40.

**103. Complex Analysis.**

Complex numbers, analytic and harmonic functions, complex integration, the Cauchy integral formula, Laurent series, singularities and residues, conformal mappings. Prerequisite(s): course 23B; and either course 100 or Computer Science 101.

**106. Systems of Ordinary Differential Equations.**

Linear systems, exponentials of operators, existence and uniqueness, stability of equilibria, periodic attractors, and applications. (Formerly course 106A.) Prerequisite(s): either Applied Mathematics and Statistics 27 or preferably courses 21 and 24; and either course 100 or Computer Science 101.

**110. Introduction to Number Theory.**

Prime numbers, unique factorization, congruences with applications (e.g., to magic squares). Rational and irrational numbers. Continued fractions. Introduction to Diophantine equations. An introduction to some of the ideas and outstanding problems of modern mathematics. Prerequisite(s): course 100 or Computer Science 101. (General Education Code(s): Q.)

**111A. Algebra.**

Group theory including the Sylow theorem, the structure of abelian groups, and permutation groups. Prerequisite(s): course 21 or Applied Mathematics and Statistics 27 and either course 100 or Computer Science 101.

**124. Introduction to Topology.**

Topics include introduction to point set topology (topological spaces, continuous maps, connectedness, compactness), homotopy relation, definition and

calculation of fundamental groups and homology groups, Euler characteristic, classification of orientable and nonorientable surfaces, degree of maps, and Lefschetz fixed-point theorem. Prerequisite(s): course 100; course 111A recommended.

**128A. Classical Geometry: Euclidean and Non-Euclidean.**

Rigorous foundations for Euclidean and non-Euclidean geometries. History of attempts to prove the parallel postulate and of the simultaneous discovery by Gauss, J. Bolyai, and Lobachevsky of hyperbolic geometry. Consistency proved by Euclidean models. Classification of rigid motions in both geometries. Prerequisite(s): either course 100 or Computer Science 101.

**200. Algebra I.**

Group theory: subgroups, cosets, normal subgroups, homomorphisms, isomorphisms, quotient groups, free groups, generators and relations, group actions on a set. Sylow theorems, semidirect products, simple groups, nilpotent groups, and solvable groups. Ring theory: Chinese remainder theorem, prime ideals, localization. Euclidean domains, PIDs, UFDs, polynomial rings. Prerequisite(s): courses 111A and 117 are recommended as preparation. Enrollment restricted to graduate students. May be repeated for credit.

**203. Algebra IV.**

Topics include tensor product of modules over rings, projective modules and injective modules, Jacobson radical, Wedderburns' theorem, category theory, Noetherian rings, Artinian rings, affine varieties, projective varieties, Hilbert's Nullstellensatz, prime spectrum, Zariski topology, discrete valuation rings, and Dedekind domains. Prerequisite(s): course 105A or equivalent; course 105B is recommended as preparation.

**204. Analysis I.**

Completeness and compactness for real line; sequences and infinite series of functions; Fourier series; calculus on Euclidean space and the implicit function theorem; metric spaces and the contracting mapping theorem; the Arzela-Ascoli theorem; basics of general topological spaces; the Baire category theorem; Urysohn's lemma; and Tychonoff's theorem. Prerequisite(s): course 105A or equivalent; course 105B is recommended as preparation.

**208. Manifolds I.**

Definition of manifolds; the tangent bundle; the inverse theorem and the implicit function theorem and the implicit function theorem; transversality; Sard's theorem and the Whitney embedding theorem; vector fields, flows, and the Lie bracket; Frobenius's theorem. Course 204 recommended for preparation. Enrollment restricted to graduate students.

**211. Algebraic Topology.**

Continuation of course 210. Topics include theory of characteristic classes of vector bundles, cobordism theory, and homotopy theory. Prerequisite(s): Courses 200, 201, and 202 recommended as preparation. Enrollment restricted to graduate students.

**213A. Partial Differential Equations I.**

First of the two PDE courses covering basically Part I in Evans' book; *Partial Differential Equations*; which includes transport equations; Laplace equations; heat equations; wave equations; characteristics of nonlinear first-order PDE; Hamilton-Jacobi equations; conservation laws; some

methods for solving equations in closed form; and the Cauchy-Kovalevskaya theorem. Courses 106A and 106B are recommended as preparation. Enrollment restricted to graduate students.

**225A. Lie Algebras.**

Basic concepts of Lie algebras. Engel's theorem, Lie's theorem, Weyl's theorem are proved. Root space decomposition for semi-simple algebras, root systems and the classification theorem for semi-simple algebras over the complex numbers. Isomorphism and conjugacy theorems. Prerequisite(s): Courses 201 and 202 recommended as preparation. Enrollment restricted to graduate students.

**238. Elliptic Functions and Modular Forms.**

The course, aimed at second-year graduate students, will cover the basic facts about elliptic functions and modular forms. The goal is to provide the student with foundations suitable for further work in advanced number theory, in conformal field theory, and in the theory of Riemann surfaces. Successful completion of graduate sequence (courses 200-202) and either 207 or 103 are recommended as preparation. Enrollment restricted to graduate students.

**292. Seminar (no credit).**

A weekly seminar attended by faculty, graduate students, and upper-division undergraduate students. All graduate students are expected to attend. Enrollment restricted to graduate students.

**Music**

**1C. University Concert Choir (2 credits).**

A study of selected works for mixed chorus, with emphasis on masterworks for chorus and orchestra, culminating in one or more public concerts. Familiarity with basic music notation recommended. Admission by audition with conductor prior to first class meeting. See enrollment conditions section of the quarterly *Schedule of Classes*. Students are billed a materials fee. May be repeated for credit. (General Education Code(s): A.)

**2. University Orchestra (2 credits).**

A study of selected works for orchestra, culminating in one or more public concerts. Admission by audition with conductor prior to first class meeting. See enrollment conditions section of the quarterly *Schedule of Classes*. Students are billed a materials fee. May be repeated for credit. (General Education Code(s): A.)

**3. Large Jazz Ensemble (2 credits).**

Instruction in performance in large jazz ensembles with written arrangements. Prepares a specific repertory for public performance. Admission by audition with instructor prior to first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. Students are billed a materials fee. Enrollment limited to 25. May be repeated for credit. (General Education Code(s): A.)

**4A. Latin American Ensemble: "Voces" (2 credits).**

Instruction in diverse musical traditions, and their culturally-grounded performance contexts, of Native American, Ibero-American, and African American music cultures of Latin America, including texted music in Spanish and Quechua or other regional languages. The class forms an ensemble that prepares varying cultural and national repertoires for public performance. Some Spanish language ability is recommended. Attend first class meeting. See the

enrollment conditions section of the quarterly *Schedule of Classes*. Enrollment limited to 25. May be repeated for credit. (General Education Code(s): A.)

**4B. Latin American Ensemble: "Taki Nan" (2 credits).**

Development of Latin American, Native American, Ibero-American, African American, and/or *Nueva Canción* (New Song) repertoire in a small ensemble setting. Three quarters of course 4A or previous enrollment in course 4B required prior to enrolling in this course. Admission by audition with instructor at first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. Enrollment limited to 10. May be repeated for credit. (General Education Code(s): A.)

**5A. West Javanese Gamelan Ensemble: Beginning (2 credits).**

Instruction in practice and performance of gamelan music from Java or Sunda. Preparation of several works for public presentation. Attend first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. May be repeated for credit. (General Education Code(s): A.)

**5B. West Javanese Gamelan Ensemble: Intermediate (2 credits).**

Instruction in practice and performance of gamelan music from Java or Sunda. Preparation of several works for public presentation. Attend first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. May be repeated for credit. (General Education Code(s): A.)

**5C. West Javanese Gamelan Ensemble: Advanced (2 credits).**

Instruction in practice and performance of gamelan music from Java or Sunda. Preparation of several works for public presentation. Attend first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. May be repeated for credit. (General Education Code(s): A.)

**6. Classical Guitar Ensemble (2 credits).**

Study of selected repertoire and instruction in performance for classical guitar ensemble. Ensembles for guitar and other instruments will prepare works for public performances both on and off campus. All students enrolled in individual guitar lessons are expected to enroll. Students of other instruments or voice may also audition. Some additional rehearsal time, individually and with the group, is required. Admission by audition with instructor prior to first class meeting. May be repeated for credit. (General Education Code(s): A.)

**9. Wind Ensemble (2 credits).**

A study of selected advanced-level works for wind ensemble, culminating in one or more public concerts. Admission by audition with conductor prior to first class meeting. Students are billed a materials fee. May be repeated for credit. (General Education Code(s): A.)

**10. Eurasian Ensemble (2 credits).**

Performing ensemble focusing on the vernacular and art musics of the Eurasian continent, with emphasis on Central Asia. Admission by instructor determination at first class meeting. Enrollment limited to 25. May be repeated for credit. (General Education Code(s): A.)

**11A. Introduction to Western Art Music.**

A study of selected masterworks in relation to the periods which they represent. Emphasis upon the listening

experience and awareness of musical style and structure. Illustrated lectures and directed listening. (General Education Code(s): IH, A, E.)

**11D. Introduction to World Music.**

Covers topics reflecting distinctive features of selected world music cultures. Introduces content, scope, and method of ethnomusicology. Focuses on understanding the musical styles, performance practices, and cultural functions of these musical traditions. Incorporates live class performance of selected music. (General Education Code(s): IH, A, E.)

**13. Beginning Theory and Musicianship I.**

Fundamentals of music and notation. Major, minor scales, intervals, triads, and inversions, root-position 7th chords, and the beginning harmonic analysis. Emphasis on the development of the ear and coordination. Exercises of pulse, rhythm, pitch, and coordination. Dictation and sight singing. Enrollment restricted to first-year students and sophomores; juniors and seniors admitted by permission of instructor. Enrollment limited to 60.

**30A. Theory, Literature, and Musicianship I.**

Integrated musicianship, theory, and analysis. Species counterpoint and fundamentals of tonal harmony. Analysis of literature from the Middle Ages and Renaissance. Ear-training, taught in smaller sections, emphasizes recognition of triad and dominant-seventh inversions, dictation of diatonic melodies, and aural analysis of simple diatonic interval and chord progressions. Most of the ear-training materials consist of homophonic and polyphonic examples from music literature performed live in class. Concurrent enrollment in course 30L required. Prerequisite: admission by core curriculum placement examination or by passing course 14 with a final examination score of approximately 80 percent or higher. Enrollment limited to 60.

**30L. Theory, Literature, and Musicianship I Laboratory (2 credits).**

Keyboard (score-reading, figured-bass, progressions, chorales) and musicianship (sight-singing, intervals, chords, rhythm) laboratory sequence illustrating topics covered in course 30A. Two 1-hour laboratory sessions per week. Concurrent enrollment in course 30A required; concurrent enrollment in course 60 also required for students without adequate prior keyboard training. Enrollment limited to 6.

**51. Vocal Repertoire Class (2 credits).**

The study and performance of vocal repertoire from 1400 to the present, including solo song, oratorio, opera, ensemble music. Emphasis is given to the development of effective performance skills, culminating in public performance. Attend first class meeting; concurrent enrollment in individual voice lessons with instructor of this course is required. See the enrollment conditions section of the quarterly *Schedule of Classes*. Enrollment limited to 20. May be repeated for credit. (General Education Code(s): A.)

**60. Group Instruction in Piano (2 credits).**

Elementary instruction in piano technique, including group and individual performance experience. A minimum of six hours per week of individual practice is required. Curriculum is coordinated with keyboard requirements of courses 30L-M-N. Concurrent enrollment in courses 30L-M-N is required. Students are billed

a course fee. Prerequisite(s): Instructor determination at first class meeting. Enrollment limited to 8. May be repeated for credit.

**74. Beginning Jazz Improvisation.**

Introduction to the basics of jazz improvisation, including theory, harmony, rhythm, improvisation techniques, aesthetics and idiomatic devices. Exposure to jazz repertoire through in-class performances of swing, blues, modal and Latin styles. Admission by audition with instructor at first class meeting. Enrollment limited to 20. May be repeated for credit.

**75. Jazz Theory I.**

Studies in the modes, scales, chord alternations and extensions, chord voicings, chord progressions, and forms that underlie jazz improvisation, composition, and arranging in a variety of styles. Prerequisite(s): course 14. Enrollment limited to 30. (General Education Code(s): A.)

**80C. History, Literature, and Technology of Electronic Music.**

This survey of electronic music from previous centuries to the present studies the works and aesthetics of important composers, acoustics, musical perception, the effects of technological innovation on cultural evolution, and the development of synthesizers and computer music. (General Education Code(s): T6-Natural Sciences or Humanities and Arts, A.)

**80P. History of Jewish Music.**

Survey of the diverse and rich musical traditions of Jewish music in the diaspora from biblical times to the present. Examines the historical, social, and anthropological aspects of the different communities from sacred music through art and popular songs. Enrollment limited to 40. (General Education Code(s): T4-Humanities and Arts, A, E.)

**80S. Women in Music.**

An exploration of the sociological position of women as composers and performers in Western and non-Western musics, with a focus on both ethnographic and historical sources. (Also offered as Feminist Studies 80S. Students cannot receive credit for both courses.) Offered in alternate academic years. (General Education Code(s): T4-Humanities and Arts, A.)

**100A. Theory, Literature, and Musicianship II.**

Tonal counterpoint and advanced tonal analysis. Techniques of 18th-century counterpoint and compositional practice. Advanced concepts in harmony, form, and the structure of melody in tonal music. Prerequisite(s): courses 30C and 30N and Piano Proficiency Exam. Enrollment limited to 20.

**101C. History of Western Art Music.**

Third quarter of a four-quarter detailed chronological study of Western art music from antiquity to the present. Coordinated lectures, readings, listening assignments, and analysis of representative works: Classical and Romantic. Prerequisite(s): course 30C.

**102. University Orchestra (2 credits).**

A study of selected works for orchestra, culminating in one or more public concerts. Admission by audition with conductor prior to first class meeting; see the enrollment conditions section of the quarterly *Schedule of Classes*. Students are billed a materials fee. Enrollment restricted to juniors and seniors. May be repeated for credit. (General Education Code(s): A.)

**103. University Concert Choir (2 credits).**

A study of selected works for orchestra, culminating in one or more public concerts. Prerequisite(s): admission by audition with conductor prior to first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. Students are billed a materials fee. May be repeated for credit. (General Education Code(s): A.)

**120. Seminar in Music Composition.**

Instruction in individual composition offered in the context of a group; composition in traditional large and small forms. Prerequisite(s): course 30C. Enrollment limited to 20.

**125. Advanced Electronic Sound Synthesis.**

Continuing study in the electronic music studio, with concentration on compositional development. Includes advanced applications of skills developed in courses 123 and 124, expansion of background knowledge and relevant electroacoustical studies. Prerequisite(s): course 124. Enrollment limited to 25.

**159A. Opera Workshop (2 credits).**

A workshop for singers, accompanists, and directors, the course develops a wide variety of skills related to opera through scenework. Attention will be given to movement, acting, coaching, and operatic stage-directing technique. Instruction culminates in studio productions of scenes from operas and musicals. Admission by permission of vocal instructor, or by audition with instructor prior to first class meeting. Students are billed a materials fee. Enrollment limited to 30. May be repeated for credit. (General Education Code(s): A.)

**159B. Opera Workshop (3 credits).**

A workshop for singers, accompanists, and directors, the course develops a wide variety of skills related to opera through scenework. Attention will be given to movement, acting, coaching, and operatic stage-directing technique. Instruction culminates in studio productions of scenes from operas and musicals. Admission by permission of vocal instructor, or by audition with instructor prior to first class meeting. Students are billed a materials fee. Enrollment limited to 30. May be repeated for credit. (General Education Code(s): A.)

**163. Early Music Consort (2 credits).**

A study of selected works for varied early music instrumental and vocal resources, culminating in one or more public concerts. Individual lessons are recommended in conjunction with consort work. Recommended for students who have instrumental or vocal competence and music literacy. Admission by audition with instructor prior to first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. May be repeated for credit.

**164. Jazz Ensembles (2 credits).**

Instruction in combo performance and techniques of the jazz idiom. The class forms several ensembles that prepare a specific repertory for public performance. Admission by audition with instructor prior to first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. May be repeated for credit.

**166. Chamber Singers (2 credits).**

The study of selected works for small vocal ensemble from the fifteenth through twentieth centuries, with performances on and off campus throughout the academic year. Students must have demonstrated vocal and music

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reading skills. Admission by audition with instructor prior to first class meeting. See the enrollment conditions section of the quarterly *Schedule of Classes*. Students are billed a materials fee. May be repeated for credit. (General Education Code(s): A.)

### **167. Workshop in Electronic Music (2 credits).**

Continuing studio work in electronic music. Students carry out individual projects, meeting in weekly seminar to share problems and discoveries. Relevant advanced topics are covered, including new developments in the art. Prerequisite(s): course 124. Enrollment limited to 20. May be repeated for credit.

### **200. Introduction to Research Methods.**

Practical introduction to graduate study in music focusing on research methods, music sources and bibliography, techniques of scholarly writing, and critical readings in the discipline. Culminates in a public oral presentation on the model of a professional conference paper.

### **203D. Performance Practice in the Classic Period.**

Issues in performance practice focusing on selected topics and styles from the time of C.P.E. Bach through Haydn. Development of selected genres and ensembles, sources and editing, and interpretation and improvisation. Offered on a rotational basis with other courses in the 203 series.

### **219. Techniques in Composition.**

Short compositional exercises incorporating diverse contemporary techniques with emphasis on problem-solving and development of compositional skills. Exercises focus on particular strategies for organizing and coordinating aspects of pitch, rhythm, timbre, and other musical dimensions, depending on interests of instructor and students. (Formerly course 219A.) Enrollment restricted to graduate students. May be repeated for credit.

### **252. Current Issues Colloquium (2 credits).**

An interactive colloquium featuring presentations by faculty, graduate students, and visiting scholars on research projects in composition, musicology / ethnomusicology, and performance practice, followed by focused discussion. Enrollment restricted to graduate students. Undergraduate students may enroll with permission of instructor. May be repeated for credit.

### **253D. Issues in the Ethnography of Music.**

Explores ethnography—the description of culture—as it relates to musicology and ethnomusicology, particularly where “culture” and cultural production are historically dynamic and geographically porous. Examines music with sensitivity to such complexities of context, and the disciplinary points of reference from which cultural difference is calculated. Considers the ideological imprint of methodology on cultural analysis: how to study an unfamiliar music in a way that transcends the measure of “difference from the familiar,” and, conversely, how to conduct an “objective” study of a familiar music. Enrollment restricted to graduate students. Enrollment limited to 10.

## **Ocean Sciences**

### **1. The Oceans.**

An interdisciplinary introduction to oceanography focusing on biological, chemical, geological, and physical processes. Covers topics such as origins and structure of planet Earth and its oceans, co-evolution of Earth and life, plate tectonics, liquid water and the hydrologic and

hydrothermal cycles, salinity and elemental cycles, ocean circulation, primary production and nutrient cycles, plankton and nekton, life on the sea floor, near shore and estuarine communities, future environmental problems our oceans face. Students may also enroll in and receive credit for Earth Sciences 1. (Note: General Education credit will not be granted for this course and Biology 80D.) (General Education Code(s): IN, Q.)

### **80A. Life in the Sea.**

The ecology of plants and animals in oceans and coastal areas. Consideration of life in various marine habitats, including the open ocean, rocky shores, estuaries, and the sea. Includes field trips. High school biology and chemistry courses are recommended prior to taking this course. (General Education Code(s): T2-Natural Sciences.)

### **200. Physical Oceanography.**

Introduction to the physics of the ocean-atmosphere system. Structure of the ocean and atmosphere. Energy balance and radiative transfer. Atmospheric circulation; weather and climate. Physical properties of seawater, air-sea interaction, mixing, water masses, ocean circulation, waves; CO<sub>2</sub> and global change. Designed for beginning graduate students in ocean sciences and upper-division science majors. Calculus and physics recommended as preparation.

### **211. Climate Dynamics.**

Introduction to the dynamics of the Earth climate system. Topics: climate system components; the global energy balance; radiative transfer; the hydrological cycle; general circulations of the atmosphere and ocean; El Niño; the North Atlantic Oscillation; the Pacific Decadal Oscillation. Enrollment restricted to graduate students. Undergraduates may enroll by permission of instructor. Previous courses in calculus and ocean sciences or earth sciences are recommended.

### **290H. Topics in Ocean Optics.**

Examines recent developments and application of bio-optics to the marine environment, including theory, instrumentation, and remote sensing. Different topics and approaches emphasized from year to year. Prerequisite(s): previous course in marine sciences recommended. Enrollment restricted to graduate students; senior undergraduates with permission of instructor. May be repeated for credit.

### **292. Seminar (no credit).**

Weekly seminar on various topics attended by faculty, graduate, and upper-division undergraduate students.

### **296. Teaching in Ocean Sciences (2 credits).**

For new and/or relatively inexperienced graduate students in pedagogy of ocean sciences. Role and responsibilities of teaching in ocean sciences described and developed. Includes discussions about effective teaching methods; hands-on issues for work in the laboratory; university expectations; and regulations regarding teaching, organizational strategies, time management, and working with instructors and staff. Prerequisite(s): graduate standing or permission of instructor. Enrollment restricted to graduate students.

## **Philosophy**

### **9. Introduction to Logic.**

A study of correct reasoning, concentrating on developing the skills necessary to distinguish logically correct from logically incorrect arguments. The emphasis is on modern

symbolic logic, although the traditional theory of the syllogism is also covered. (General Education Code(s): IH, Q.)

### **28. Environmental Ethics.**

This course is an introduction to the moral issues raised by our interactions with nonhuman animals and with the rest of the natural environment. The course will relate traditional moral theories to contemporary literature on the ethics of nature conservation and environmental protection. The course is intended as a first course in philosophy as well as a first course in ethics; therefore, questions concerning the nature of philosophical inquiry and the ways in which philosophical inquiry is different from inquiries conducted within other disciplines will also be addressed. (General Education Code(s): IH.)

### **80G. Bioethics in the 21st Century: Science, Business, and Society.**

Serves science and non-science majors interested in bioethics. Guest speakers and instructors lead discussions of major ethical questions having arisen from research in genetics, medicine, and industries supported by this knowledge. (Also offered as Biomolecular Engineering 80G. Students cannot receive credit for both courses.) (General Education Code(s): T6-Natural Sciences or Humanities and Arts.)

### **91. Ancient Greek Philosophy.**

A study of Socratic method, of Platonic metaphysics, epistemology, and ethical theories, and of Aristotle's moral and political views through intensive reading of selected Platonic dialogues and Aristotelian texts.

### **108. Phenomenology.**

French phenomenology includes primarily the work of Jean-Paul Sartre, Simone de Beauvoir, and Maurice Merleau-Ponty. Additional topics include the nature of consciousness and agency. Course includes discussion of French feminists' reactions to Simone de Beauvoir and Emmanuel Levinas. (Formerly course 109, Phenomenology to Poststructuralism) Prerequisite(s): course 91 or 93 or 94.

### **121. Knowledge and Rationality.**

An investigation of modern theories of knowledge, justification, and rationality. One course in philosophy is strongly recommended prior to taking this course.

### **133. Philosophy of Mind.**

An exploration of the mind-body problem. What is the relationship between mind and brain? Can consciousness be explained in physical terms? Prerequisite(s): one course in either philosophy or psychology.

### **142. Advanced Ethics.**

An examination of central issues in ethical theory including the nature of and justification for the moral point of view, the place of reason in ethics, the status of moral principles, and the nature of moral experience. Prerequisite(s): two philosophy courses including course 22, 24, or 28.

### **190P. Major Figures in Contemporary Philosophy.**

Focuses on philosophical writings and significance of a single figure in contemporary (20th- and 21st-century) philosophy. May include, but not be limited to, Russell, Whitehead, Wittgenstein, Husserl, Carnap, Murdoch, Quine, Irigaray, Derrida, and Davidson. Students cannot receive credit for this course and course 290P. Enrollment

restricted to senior philosophy majors. Enrollment limited to 22. May be repeated for credit.

**190W. History of Consciousness.**

Historical study of philosophical theories of consciousness and self-consciousness. Problems include the relation of self and other, consciousness and body, and self-consciousness and ethical agency. Readings will be selected from some of the following: Kant, Hegel, Nietzsche, and Heidegger, followed by phenomenologists, poststructuralists, and analytic philosophy. Enrollment restricted to junior and senior philosophy majors. Enrollment limited to 10.

**201. First Quarter Seminar.**

First quarter required course for philosophy graduate students. Introduces the work of the philosophy faculty members to the new graduate students. Helps new students form a cohort. Each week different faculty members will visit the class and discuss materials of their own as well as materials or topics that they study. Enrollment restricted to graduate philosophy majors.

**256. History of Consciousness.**

Examination of contemporary theories of consciousness in both analytic and continental traditions. Among those who deflate modern philosophy's preoccupation with consciousness are not only Dennett, Davidson, and Rorty, but also Heidegger, Foucault, and Derrida. Among those who argue for irreducibility of subjectivity are not only Searle, Nagel, and Chalmers, but also Sartre, Merleau-Ponty, and Levinas. Discussion of parallel readings from both philosophical perspectives. (Also offered as History of Consciousness 224. Students cannot receive credit for both courses.) Enrollment restricted to graduate students. Enrollment limited to 25.

**280. Graduate Colloquia Course (2 credits).**

This colloquia series sponsors speakers each quarter. Students must attend all colloquia and are encouraged to form discussion groups after each lecture. Enrollment restricted to philosophy graduate students.

**290P. Major Figures in Contemporary Philosophy.**

Focuses on philosophical writings and significance of a single figure in contemporary (20th- and 21st-century) philosophy. May include, but not be limited to, Russell, Whitehead, Wittgenstein, Husserl, Carnap, Murdoch, Quine, Irigaray, Derrida, and Davidson. Students cannot receive credit for this course and course 190P. Enrollment restricted to graduate students majoring in philosophy. Enrollment limited to 22. May be repeated for credit.

**Physical Education**

**5A. Aquatics: Swimming Level I (no credit).**

Coeducational. Water exploration and primary skills development. Course is designed to teach only "non-swimmers" how to swim. The following is taught: Red Cross swimming instruction in overcoming fears, water adjustment, floating, breath holding, and rhythmic breathing. Skills to be learned are: water entries, sculling, treading, elementary backstroke, freestyle, methods of water safety, and survival techniques. Prerequisite(s): instructor determines skill level at first class meeting. Enrollment limited to 15.

**5B. Aquatics: Swimming Level II (no credit).**

Coeducational. Stroke readiness and development. Course is for those who have completed Swimming Level I or who can swim freestyle and demonstrate elementary

backstroke. Skills to be learned are underwater swimming, turns, improvement of freestyle and elementary backstroke, beginning side stroke, backstroke, breaststroke, diving, personal safety skills, and basic rescue techniques. Prerequisite(s): instructor determines skill level at first class meeting; pass Swimming Level I course or demonstrate equivalent skills. Students pay a course fee. Enrollment limited to 20.

**5C. Aquatics: Swimming Level III (no credit).**

Coeducational. Stroke refinement and skill proficiency. Course teaches refinement of basic strokes and introduces butterfly, plus backstroke, surface diving, turns, endurance swimming, and survival techniques. Prerequisite(s): instructor determines skill level at first class meeting; pass in Swimming Level II course or possess equivalent skills in freestyle, sidestroke, elementary backstroke, and breaststroke. Enrollment limited to 30.

**5E. Aquatics: Lifeguard Training (LT) (no credit).**

Red Cross certified lifeguard training. Provides the necessary minimum skills training to qualify as a non-surf lifeguard. Certification includes CPR Pro, AED, PDT, D2, ADMIN, and Title 22 First Aid. Candidates must successfully pass final skill tests and written final exam with 80 percent score. Students are billed for a course fee. Prerequisite(s): must have ability to swim 500 yards in ten minutes, tread water for one minute, strong swimming skills in free, back, breast, side, and elementary backstroke; must purchase Red Cross LT text book. Enrollment limited to 10.

**5G. Aquatics: Swimming/Conditioning (no credit).**

Open to all students who wish to explore swimming as a conditioning and fitness exercise. Students should know three competitive strokes, and should be able to swim fifteen minutes without stopping. Short health and fitness lectures precede some classes. Prerequisite(s): instructor determination at first class meeting. Enrollment limited to 40.

**5R. Aquatics: Basic Scuba Diving (no credit).**

Coeducational. Sections geared toward the successful completion of NAUI Scuba Diver Certification. The course is divided into three parts: lecture, pool lab, and open water experience. Four open water training dives are offered. Emphasis is on training for open water scuba diving, using the beach as a base of operation. Students pay a course fee. Prerequisite(s): pass swimming skills tests and medical clearance. It is strongly recommended that students enroll in course 5S. Enrollment limited to 24.

**5T. Aquatics: Advanced Scuba Diving (no credit).**

Coeducational. Sections are offered to facilitate the development of the basic scuba diver's open water techniques. A minimum of six open water experiences is offered. Course is geared toward successful completion of NAUI Advanced Scuba Diver Certification. Students pay a course fee. Prerequisite(s): course 5R or pass swimming skills test and medical clearance. Enrollment limited to 25.

**5U. Aquatics: Scuba Instruction (no credit).**

Coeducational. A course designed for the experienced scuba student who wishes to assist with the scuba instruction program at UCSC. Topics covered include teaching techniques, skin and scuba techniques, rescue techniques, and safety procedures. Specialty labs also offered in

conjunction with course which cover a variety of diving skills. Students pay a course fee. Students are required to enroll in one lab section per quarter. Supervised teaching experience is also provided. Prerequisite(s): Basic Scuba Certification and special prerequisite checking by instructor. Enrollment limited to 30.

**9B. Boating: Beginning Dinghy Sailing (no credit).**

Coeducational. Introductory course in practical boating safety using 15-foot sailboats. Includes introduction to rigging, nomenclature, seamanship, proper boat-handling techniques, and general boating and aquatic safety. Satisfactory completion meets prerequisites for intermediate-level dinghy course. Students pay a course fee. Prerequisite(s): swimming ability. (Formerly *Boating: Basic Sailing*) Enrollment limited to 18.

**9C. Boating: Intermediate Dinghy Sailing (no credit).**

Coeducational. Course includes a review of basic sailing with an emphasis on the further development and refinement of small-boat sailing techniques. Fifteen-foot sailboats are used with two students per boat. Students pay a course fee. (Formerly *Boating: Intermediate Sailing*) Prerequisite(s): course 9B or equivalent skills. Enrollment limited to 16.

**9E. Boating: Competitive Sailing (no credit).**

Coeducational. Instruction and coaching at the advanced sailing level in racing dinghies and keelboats. Emphasis on the physical and mental requirements for racing sailboats and the technical aspects of sail racing. Students will be involved in intercollegiate competition. Prerequisite(s): advanced sailing ability.

**9H. Boating: Basic Rowing (no credit).**

Coeducational. Course designed to cover types of rowing boats, nomenclature, fundamental skills, and specific safety and rescue aspects related to the activity. Students will row singly as well as in groups using 15-foot to 22-foot rowing dories. (Formerly course 9J.) Students pay a course fee. Prerequisite(s): swimming ability. Enrollment limited to 12.

**9J. Boating: Intermediate Rowing (no credit).**

Coeducational intermediate course designed to cover more advanced rowing techniques and the skills needed for safe open water rowing. Students pay a course fee. Prerequisite(s): basic rowing or permission of instructor. (Formerly course 9H.) Enrollment limited to 11.

**9K. Boating: Ocean Kayaking (no credit).**

Co-educational course that teaches novice kayakers the skills to safely use UCSC kayaks in the Monterey Bay. Topics include: basic paddling strokes and maneuvers; self and assisted deep-water rescues; beach launching; landing through surf; and marine hazards and navigation. Students pay a course fee. Enrollment limited to 12.

**9S. Boating: Intermediate Keelboat Sailing (no credit).**

Coeducational. Combines hands-on rigging and docking practice in the harbor and sailing practice on Monterey Bay with instruction in sail-trimming, de-powering, powering-up, person-overboard recovery techniques, boating safety, weather, ocean conditions, sailing theory, rigging, navigation, and the maritime rules of the road. Twenty-seven foot, ultralight, displacement keelboats are used. Students pay a course fee. Prerequisite: course 9C. Enrollment limited to 16.

**15B. Court Sports: Basketball (no credit).**

Coeducational. Instruction in fundamentals, offensive and defensive strategies, rules, and conditioning designed primarily for beginning and intermediate level players. Enrollment limited to 20.

**15H. Court Sports: Racquetball (no credit).**

Coeducational. The beginning section provides an introduction to the basic knowledge and skills involved in this indoor racquet sport. The advanced beginning section continues the development of the basic skills emphasizing increased shot variety and advanced strategy. The intermediate section offers the opportunity for further skill development and introduces more advanced offensive skills. Enrollment limited to 18.

**15N. Court Sports: Tennis (no credit).**

Coeducational. The beginning section introduces the basics of forehand, backhand, and serve. Advanced beginning section reviews these basics and introduces the volley, overhead, and lob. The intermediate section reviews all stroke mechanics and covers basic singles and doubles strategy. The advanced section includes use of spins, practice principles, detailed stroke analysis, and advanced play situations. Competitive Tennis is a year-long program for members of the intercollegiate tennis teams. Students pay a course fee. Enrollment limited to 24.

**15T. Court Sports: Volleyball (no credit).**

Coeducational. Beginning/intermediate, intermediate, and advanced sections are offered for students who desire to learn and improve the basic skills, as well as to understand the rules. Competitive section is open to students interested in participation in the UCSC NCAA Women's Volleyball team. It covers information and practice in all aspects of the competitive volleyball season. Enrollment limited to 25.

**20A. Dance: Ballet (no credit).**

Coeducational. Sections offered at various technical levels graded from I to III. Emphasis on principles of movement, style, and execution of ballet technique. Section in ballet repertory where advanced students have the opportunity to perform is offered in the spring quarter. Students pay a course fee.

**20B. Folk Dance International (no credit).**

Coeducational. International folk dance with an emphasis on Balkan and Israeli dances. Sections are also offered periodically in Mexican dance.

**20C. Dance: Jazz (no credit).**

Coeducational. Sections offered at various technical levels graded from I to III. Exploration of jazz dance emphasizing basic technique, styling, rhythm, and isolations. Jazz and contemporary music is used as accompaniment. Some background in ballet strongly recommended before continuing to Jazz II or III. Section in jazz dance repertory where advanced students have the opportunity to perform is offered in spring quarter. Students pay a course fee. Enrollment limited to 40.

**20D. Dance: Modern (no credit).**

Coeducational. Sections offered at various technical levels graded from I to III. Emphasis on basic techniques and building phrases of movement. Section in choreography and improvisation offered in spring quarter. Section in dance repertory offered periodically. Students pay a course fee.

**20F. Dance: Individual Studies in Dance (no credit).**

Coeducational. Designed to give students the opportunity of pursuing their particular interests in the field of dance with the support and direction of a faculty member. Prerequisite(s): instructor determination at first class meeting.

**25A. Fencing: Épée (no credit).**

Coeducational. Basic instruction in the techniques, strategy, and general methodology of modern épée fencing. Emphasis on épée fencing as a development from the traditional French and Italian dueling sword styles as they have evolved to form the modern electrical épée game. Students pay a course fee.

**25B. Fencing: Foil (no credit).**

Coeducational. Instruction in modern competitive French-Italian foil techniques for beginning, intermediate, and advanced levels. Emphasis on physical and mental conditioning leading to improved skill in recreational and competitive areas of involvement. Students pay a course fee.

**25C. Fencing: Sabre (no credit).**

Coeducational. Instruction and practice in basic offensive and defensive skills of modern Hungarian sabre technique. Emphasis on physical and mental conditioning as a foundation for more advanced levels of instruction. Preparation for recreational and competitive involvement. Students pay a course fee.

**28K. Field Sports: Soccer (no credit).**

Coeducational/Women's. Sections are offered in field soccer and indoor soccer. Instruction in the basic techniques, tactics, laws of the game, and injury prevention for beginners and advanced players. Prerequisite(s): determination at first class meeting.

**30G. Fitness Activities: Physical Conditioning (no credit).**

Coeducational. An exercise course designed to increase the participants' strength, flexibility, coordination, and cardiovascular endurance. Special attention is given to understanding and utilizing sound and safe principles of body alignment and movement. Courses include, but not limited to: Pilates; cardio boxing, stretch and strengthen, and aerobics.

**30H. Fitness Activities: T'ai Chi Ch'uan (no credit).**

Through balanced movement and breath control, T'ai Chi Ch'uan attempts to forestall many processes of aging by cultivating greater strength of body, mind, and spirit.

**30J. Fitness Activities: Weight Training (no credit).**

Coeducational. An introduction to safe and effective methods of using weight training and other personal conditioning activities. Topics covered include proper weight training techniques, care of body and equipment, and elementary exercise physiology.

**30L. Fitness Activities: Yoga Exercises (no credit).**

Coeducational. Sections offered at beginning, continuing beginning, and advanced beginning levels of Hatha Yoga.

**43A. Martial Arts: Aikido (no credit).**

Coeducational. A nonviolent, noncompetitive Japanese martial art emphasizing mind-body harmony, balance,

relaxation, and the understanding of vital energy. Aikido self-defense techniques aim toward the creative resolution of conflict and the growth of the individual. Sections offered at beginning and experienced levels.

**Physics**

**5A. Introduction to Physics I.**

Elementary mechanics. Vectors, Newton's laws, inverse square force laws, work and energy, conservation of momentum and energy, and oscillations. Corequisite(s): concurrent enrollment in course 5L and Mathematics 19A or 20A is required. (General Education Code(s): IN, Q.)

**5D. Heat, Thermodynamics, and Kinetics (2 credits).**

Introduction to temperature, heat, and thermal conductivity, ideal gases, the first and second laws of thermodynamics, and an introduction to kinetic theory. Prerequisite(s): courses 5A/L and Mathematics 19B or 20B.

**5L. Introduction to Physics Laboratory (1 credit).**

Laboratory sequence illustrating topics covered in course 5A. One three-hour laboratory session per week. Prerequisite(s): concurrent enrollment in course 5A is required.

**6A. Introductory Physics I.**

Elementary mechanics. Vectors, Newton's laws, inverse square force laws, work and energy, conservation of momentum and energy, and oscillations. Prerequisite(s): Concurrent enrollment in course 6L required. Corequisite: Mathematics 11A or 19A or 20A. (General Education Code(s): IN, Q.)

**6C. Introductory Physics III.**

Introduction to electricity and magnetism. Electromagnetic radiation, Maxwell's equations. Prerequisite(s): courses 6A/L or 5A/L and Mathematics 11B or 19B or 20B; concurrent enrollment in course 6N required. Corequisite: Mathematics 22 or 23A. Courses 6B/M are suggested. (General Education Code(s): IN.)

**6L. Introductory Physics Laboratory (1 credit).**

Laboratory sequence illustrating topics covered in course 6A. One three-hour laboratory session per week. Prerequisite(s): Concurrent enrollment in course 6A required.

**6N. Introductory Physics Laboratory (1 credit).**

Laboratory sequence illustrating topics covered in course 6C. One three-hour laboratory session per week. Prerequisite(s): courses 6A/L or 5A/L; concurrent enrollment in course 6C required; courses 6B/M are suggested.

**101A. Introduction to Modern Physics I.**

Special theory of relativity. Early experiments and models in quantum physics. Introduction to concepts and calculations in quantum mechanics. Single-electron atoms. Prerequisite(s): courses 5A/L, 5B/M, and 5C/N or 6A/L, 6B/M, and 6C/N.

**105. Mechanics.**

Particle dynamics in one, two, and three dimensions. Conservation laws. Small oscillations, Fourier series and Fourier integral solutions. Phase diagrams and nonlinear motions, Lagrange's equations, and Hamiltonian dynamics. Prerequisite(s): courses 5A/L, 5B/M, 5C/N, and 116A-B.

**116C. Mathematical Methods in Physics.**

Calculus of variations, including Euler equations and Lagrange's equations of motion in classical mechanics; partial differential equations and boundary value problems by separation of variables; functions of a complex variable including the residue theorem and a brief discussion of conformal mapping; Fourier transforms including applications to partial differential equations; the Dirac delta function and a discussion of Green's functions; Laplace transforms. Prerequisite(s): courses 5A/L, 5B/M, 5C/N, 116A-B, Mathematics 23A and 23B.

**134. Physics Advanced Laboratory.**

Individual experimental investigations of basic phenomena in atomic, nuclear, and solid state physics. Prerequisite(s): courses 133 and 101B. May be repeated for credit.

**135A. Astrophysics Advanced Laboratory (3 credits).**

Introduction to techniques of modern observational astrophysics at optical and radio wavelengths through hands-on experiments. Intended primarily for juniors and seniors majoring or minoring in astrophysics. Offered in some academic years as single-term course 135 in fall, depending on astronomical conditions. (Also offered as Astronomy and Astrophysics 135A. Students cannot receive credit for both courses.) Prerequisite(s): course 133 and at least one astronomy course.

**139B. Quantum Mechanics.**

The principles and mathematical techniques of nonrelativistic quantum mechanics: the Schrödinger equation, Dirac notation, angular momentum, approximation methods, and scattering theory. Offered in fall. Prerequisite(s): courses 101A, 101B, 116A-B-C and 139A.

**171. General Relativity, Black Holes, and Cosmology.**

Special relativity is reviewed. Curved space-time, including the metric and geodesics, are illustrated with simple examples. The Einstein equations are solved for cases of high symmetry. Black-hole physics and cosmology are discussed, including recent developments. (Also offered as Astronomy and Astrophysics 171. Students cannot receive credit for both courses.) Prerequisite(s): courses 105, 110A, 110B, and 116A-B-C.

**195A. Senior Thesis Research (3 credits).**

A seminar course to help students explore their theses topics and plan, organize, and develop their theses. Choosing a thesis topic, preparing a work plan for the research, assembling an annotated bibliography, and writing a draft outline of the thesis. Students must complete 5 credits in the 195 series to satisfy the writing intensive (W) general education requirement.

**210. Classical Mechanics.**

Generalized coordinates, calculus of variations, Lagrange's equations with constraints, Hamilton's equations, applications to particle dynamics including charged particles in an electromagnetic field, applications to continuum mechanics including fluids and electromagnetic fields, introduction to nonlinear dynamics. Enrollment restricted to graduate students only, except by permission of instructor.

**212. Electromagnetism I.**

Electrostatics and magnetostatics, boundary value problems with spherical and cylindrical symmetry, multipole expansion, dielectric media, magnetic materials, electromagnetic properties of materials, time-varying electro-

magnetic fields, Maxwell's equations, conservation laws, plane electromagnetic waves and propagation, waveguides and resonant cavities. Enrollment restricted to graduate students only, except by permission of instructor.

**217. Quantum Field Theory I.**

Lorentz invariance in quantum theory, Dirac and Klein-Gordon equations, the relativistic hydrogen atom, Green functions and canonical approach to field theory, quantum electrodynamics, Feynman diagrams for scattering processes, symmetries and Ward identities. Students learn to perform calculations of scattering and decay of particles in field theory. Prerequisite(s): course 216. Enrollment restricted to graduate students only, except by permission of instructor.

**221A. Introduction to Particle Physics I.**

First quarter of a two-quarter graduate level introduction to particle physics, including the following topics: discrete symmetries, quark model, particle classification, masses and magnetic moments, passage of radiation through matter, detector technology, accelerator physics, Feynman calculus, and electron-positron annihilation. Prerequisite(s): course 217 or concurrent enrollment. Enrollment restricted to graduate students only, except by permission of instructor.

**231. Introduction to Condensed Matter Physics.**

Crystal structures, reciprocal lattice, crystal bonding, phonons (including specific heat), band theory of electrons, free electron model, electron-electron and electron-phonon interactions, transport theory. Prerequisite(s): course 216. Enrollment restricted to graduate students only, except by permission of instructor.

**291A. Cosmology (2 credits).**

Intensive research seminar on cosmology and related topics in astrophysics: nature of dark matter; origin of cosmological inhomogeneities and other initial conditions of the big bang; origin and evolution of galaxies and large scale structure in the universe. Enrollment restricted to graduate students only, except by permission of instructor.

**291C. Developments in Theoretical Particle Physics (2 credits).**

Seminar on the current literature of elementary particle physics, ranging from strong and weak interaction phenomenology to Higgs physics, supersymmetry, and superstring theory. Students may present their own research results. Prerequisite(s): course 218; enrollment restricted to graduate students. May be repeated for credit.

**291D. Experimental High-Energy Collider Physics (2 credits).**

Seminar on current results in experimental high-energy particle physics. Topics follow recently published results, including design of experiments, development of particle detector technology, and experimental results from new particle searches, quantum chromodynamics, and properties of heavy flavor quarks. Enrollment restricted to graduate students. May be repeated for credit.

**291E. Applied Physics (2 credits).**

Intensive research seminar on applied physics and related topics in materials science, including semiconductor devices, optoelectronics, molecular electronics, magnetic materials, nanotechnology, biosensors, and medical physics. Students may present their own research results. Enrollment restricted to graduate students. May be repeated for credit.

**291F. Experimental High-Energy and Particle Astrophysics Seminar (2 credits).**

Survey of current research in experimental high-energy and particle astrophysics. Recent observations and development in instrumentation for x-rays, gamma rays, and neutrinos, and evidence for dark matter and other new particles. Students lead discussion of recent papers. Enrollment restricted to seniors and graduate students and by permission of instructor. Enrollment limited to 15. May be repeated for credit.

**291G. Condensed Matter Physics Research Seminar (2 credits).**

Weekly seminar series covering topics of current interest in condensed matter physics. Local and external speakers discuss their work. Enrollment restricted to graduate students. May be repeated for credit.

**292. Seminar (no credit).**

Weekly seminar attended by faculty and graduate students. Directed at all physics graduate students who have not taken and passed the qualifying examination for the Ph.D. program. Enrollment restricted to graduate students only, except by permission of instructor.

**Politics**

**1. Democratic Politics.**

Systematic introduction to the nature of politics and government, organized around the dynamic relationship between power, principle, and process in democratic politics. Provides historic and contemporary overview; explores the interactions among government, laws, and societies at the national and international levels. (General Education Code(s): IS.)

**17. U.S. and the World Economy.**

Explores intellectual and empirical trends shaping the U.S. relationship with the global economy. Traces debates about liberalism and interventionism, surveys post-war American foreign economic policy and discusses varieties of capitalism emerging around the world. (General Education Code(s): IS.)

**103. Feminist Interventions.**

Situates ongoing debates around feminist theory and practice within the context of political theory, the role of the state, and the position of women in contemporary (predominantly Western) society. Engages with classical political theory, second wave feminism, and the role of the state on matters pertaining to pornography and prostitution. Enrollment restricted to politics, legal studies, and Latin American and Latino studies/politics combined majors during priority enrollment only.

**105A. Ancient Political Thought.**

Ancient political ideas in context of tension between democracy and empire, emergence of the psyche, and shift from oral to written culture. Emphasis on Athens, with Hebrew, Roman, and Christian departures and interventions. Includes Sophocles, Thucydides, Socrates, Plato, Aristotle, Stoics, the Bible, and Augustine. (Also offered as Legal Studies 105A. Students cannot receive credit for both courses.) Enrollment restricted to politics and Latin American and Latino studies/politics combined majors during priority enrollment only.

**109. Orientalism.**

Studies "Orientalism" as a concept of political theory and as a historical practice. Considers how "Western" views of the peoples, cultures, and governments of "the East"

influenced political, intellectual, and aesthetic projects of the 18th and 19th centuries, with attention to the themes of colonialism, nationalism, language, and gender. Also considers Orientalism as a subject of post-colonial thought. Prerequisite(s): course 105A, or 105B, or 105C, or 105D; or by permission of instructor. Enrollment restricted to politics majors.

**112. Women and the Law.**

Interdisciplinary approach to study of law in its relation to category “women” and production of gender. Considers various materials including critical race theory, domestic case law and international instruments, representations of law, and writings by and on behalf of women living under different forms of legal control. Examines how law structures rights, offers protections, produces hierarchies, and sexualizes power relations in both public and intimate life. (Also offered as Feminist Studies 112. Students cannot receive credit for both courses.) Enrollment restricted to politics, feminist studies, legal studies, and Latin American and Latino studies/politics combined majors during priority enrollment only.

**120B. Society and Democracy in American Political Development.**

Examines role of social forces (e.g., race, class, and gender) in development of the American democratic processes and in the changing relationship between citizen and state. Course materials address ideas, social tensions, and economic pressures bearing on social movements, interest groups, and political parties. (Also offered as Legal Studies 120B. Students cannot receive credit for both courses.) Enrollment restricted to politics and Latin American and Latino studies/politics majors during priority enrollment period. Satisfies American History and Institutions Requirement.

**140B. Comparative Post-Communist Politics.**

Comparative study of revolutionary transformations of East European, Soviet, and former Soviet nations to post-Communist political orders. Focus on reemergence of political society, social and economic problems of transition, and maintenance of many cultural norms and authority patterns associated with previous regime.

**149. Democratic Transitions.**

Explores democratization processes from a variety of historical and geographical perspectives. Examines the role of foreign influences, economic development, civil society, elites, and institutions in the transition and consolidation of democratic systems. Enrollment restricted to politics and Latin American and Latino studies/politics majors during priority enrollment only.

**160A. International Politics.**

Upper-division introduction to international relations, international organizations, international political economy, foreign policy, conflict, and war. Explores a range of theories, issues and cases that are of interest to students of international affairs and are helpful in understanding recurring patterns of global conflict and cooperation. Addresses the nexus between domestic politics and the foreign policy of states. Enrollment restricted to politics and Latin American and Latino studies/politics combined majors during priority enrollment only.

**162. Political Integration in Europe, The Atlantic Community and Africa.**

Analyzes concepts, movements, and institutions fostering transnational community. Compares and contrasts func-

tional and federal approaches; the roles of the European, Atlantic Union, and Pan-African Movements; and explores efforts at socio-economic transformation via institutions such as the European Union, Council of Europe, NATO, OSCE, and African Union. Enrollment restricted to politics and politics/Latin American and Latino studies combined majors during priority enrollment.

**176. International Political Economy.**

Surveys and critically examines long-standing theoretical debates within international political economy (liberalism, mercantilism, Marxism) with context of important historical and contemporary international political economy issue areas (international monetary systems, organization of international trade, regulation of foreign direct investment, development policies, etc.). Enrollment restricted to politics and Latin American and Latino studies/politics combined majors during priority enrollment only.

**190R. Critical Development.**

Interrogation of the idea of development and historical examination of the development of the discourse of development. Explores the ways in which the discourse shapes the practice of development, with a focus on issues of democracy and civil society, humanitarian intervention, gender and agriculture. Enrollment restricted to senior politics and Latin American and Latino studies/politics majors during priority enrollment only. Enrollment limited to 20.

**190W. Living in the Aftermath of Evil.**

Draws on a variety of sources to understand metaphors of war and peace as potentially appropriate attitudes toward evil and as potentially rational compromises with evil; investigates respects in which constitutional regimes of post-traumatic societies can be understood as “peace programs” that preserve and transcend the identities of the victims and perpetrators of past atrocities while creating a new identity based on their common survivorship; explores the constraints placed on “nation in recovery” by the public commitment to create an official version of a past that must be remembered so that it will not be repeated. Prerequisite(s): two of the following: course 105A, 105B, 105C, 106, and 107. Enrollment restricted to senior politics and Latin American and Latino studies/politics combined majors during priority enrollment only. Enrollment limited to 20.

**200B. Social Forces and Political Change Core Seminar.**

Concerns transformation of social forces into political ones. Focuses on formation, articulation, mobilization, and organization of political interests and identities, their mutual interaction, and their effects on state structures and practices and vice versa. Major themes are 1) social bases of political action: class, gender, race, and other determinants of social division and political identity and 2) relevant forms of political agency and action, including development of political consciousness and representation of interests and identities in the public sphere. Enrollment restricted to graduate students. Enrollment limited to 15.

**203. Making of the Modern.**

Introduces, at the graduate level, some of the central conceptual categories and material implications that underwrite the world of the modern. Explores concepts including the individual, historicism, contract, and

objectivity. Enrollment restricted to graduate students. Enrollment limited to 15.

**232. United States Political History.**

Covers several important themes and sets of readings from the literature on American political development. Topics include the origins and development of American political institutions, the evolution of democratic mechanisms, the rise and fall of social movements, and debates about the sources of policy regimes and political change, including the role of war. Enrollment restricted to graduate students. Enrollment limited to 15.

**291. Teaching Assistant Seminar (2 credits).**

Two-hour weekly seminar required of teaching assistants in which pedagogic and substantive issues will be considered. The experience of performing teaching assistant duties constitutes subject matter for discussion. Students submit petition to sponsoring agency. May be repeated for credit.

**Portuguese**

**1A. Intensive Elementary Portuguese.**

Intensive instruction in elementary Portuguese, emphasizing oral proficiency as well as reading and writing skills. Taken together, courses 1A and 1B are equivalent to first-year instruction. Enrollment limited to 25.

**60A. Advanced Beginning and Intermediate Portuguese.**

This sequence is designed for students with an equivalent of four quarters of college level study of Spanish, French, Italian, or Catalan or for native speakers of these Romance languages (including heritage speakers of Portuguese). Prepares students in all language skills. Prerequisite(s): Spanish 4 or Spanish for Spanish Speakers 64 or French 4 or Italian 4 or placement by examination.

**65B. Intermediate Portuguese.**

Sequential to course 65A, completes second-year accelerated instruction. A systematic grammar review is combined with literacy and cultural readings, while communicative exercises focus on improving students’ ability to understand and hold sustained conversations. Students expand their vocabulary and knowledge of Brazil and other Portuguese-speaking cultures through films, popular music, and other cultural authentic materials. Fulfills EAP language requirement for study abroad in Brazil. Prerequisite(s): course 65A or by instructor approval. (General Education Code(s): IH.)

**Psychology**

**1. Introduction to Psychology.**

Introduces prospective majors to the scientific study of behavior and mental processes and also provides an overview for non-majors. Emphasizes social, cognitive, developmental, and personality psychology and their interrelations. (General Education Code(s): IS.)

**3. Research Methods in Psychology (7 credits).**

An introduction to research methods used to investigate human psychology. Course emphasizes critical thinking, designing and conducting research, analyzing and interpreting data, and writing a professional research report. Prerequisite(s): course 2 or Applied Mathematics and Statistics 5. Enrollment restricted to prepsychology majors; minors by permission of instructor.

**10. Introduction to Developmental Psychology.**

Psychological development from birth to adolescence,

with primary emphasis on infancy and childhood. A broad introduction to the field of developmental psychology. Prerequisite(s): course 1. Enrollment restricted to pre-psychology majors.

### **20. Introduction to Cognitive Psychology.**

Introduces basic concepts in cognitive psychology. Topics include thinking, consciousness, perceiving, language, remembering, reasoning, problem solving, and decision-making. Prerequisite(s): course 1.

### **40. Introduction to Social Psychology.**

An analysis of contemporary research in social psychology and of what that research can teach us about the world we live in. Problems of conformity, propaganda, prejudice, attraction, and aggression. Focuses on a person's relationship with other people—how he or she influences them and is influenced by them. Prerequisite(s): course 1.

### **80A. Psychology and Religion.**

Topics covered include myth and the unconscious, the varieties of religious experience, dualism, women and religion, the role of authority, transpersonal experience, conversion, disaffiliation, self and community. (General Education Code(s): T3-Social Sciences.)

### **102. Adolescent Development: Adolescence into Young Adulthood.**

Focuses on individual and relational development from early adolescence into young adulthood. Emphasis on the mutual influences of family relationships and adolescent development, and on the interface of family, peer group, and school experience in cultural contexts. Prerequisite(s): courses 3 and 10.

### **119B. Cultural Psychology.**

Critically analyzes relations among culture, ethnicity, identity, and the nation-state in a world characterized by globalization, migration, and social change. Examines the relevance of these features for the development of children and youth through examples from both Western and non-Western "cultures." Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 100D.) Enrollment restricted to senior psychology and anthropology majors. Enrollment limited to 30. (General Education Code(s): E.)

### **119F. Language Development.**

An introduction to language development in children. Explores current theory and research in language development; focuses on the preschool years. Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 103.) Enrollment restricted to senior psychology majors. Enrollment limited to 30.

### **119H. Developmental Psychology Research and "Real World" Problems.**

Explores ways that research in developmental psychology can be used to address "real-world" problems facing children. With an analytical focus on evidence and generalizability, we will investigate research-policy connections in topics of popular interest (e.g., child custody, poverty). Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 100R.) Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to senior psychology majors. Enrollment limited to 30. (General Education Code(s): W.)

### **119I. Special Topics in Narrative Development.**

Examines a special topic of current interest in

developmental psychology centering on features of development that unfold during free-flowing discourse, e.g., interviews, conversations, and reminiscences. Topics may include the development of self-narratives, personal memories, family stories, attachment, identity, or achievement. Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 100N.) Enrollment restricted to senior psychology majors. Course 60 recommended. Enrollment limited to 30.

### **119L. Biological Foundations of Life Span Development.**

Focuses on the biological foundations of cognitive and social development in childhood, adolescence, and old age. Topics include theory of mind and autism, planning, problem-solving, and emotional regulation in adolescence, and cognitive growth and decline in old age. Satisfies the senior seminar requirement. Satisfies the comprehensive requirement. Satisfies the comprehensive requirement. Enrollment restricted to senior psychology majors. Enrollment limited to 30.

### **126. Aging and the Human Brain.**

How does the brain change as we age? Course covers new developments in research on cognitive neuroscience and aging, with a focus on the consequences for memory, emotion, and decision-making. Prerequisite(s): course 20, 121, 123, 129 or Biology 70.

### **130. Deception, Brain, and Behavior.**

Focuses on behavioral and brain manifestations of deception. Topics include developmental changes that allow us to understand and to use deception, physical implications of lying expressed in the face, voice, posture, and brain activity. Also covers mechanical or behavioral techniques used in deceptive behavior, whether in the form of overt behavior or brain activity. (Formerly course 130B.) Prerequisite(s): course 3; course 20 or any upper-division cognitive course strongly recommended.

### **131. Human-Computer Interaction.**

Theory and hands-on practice to understand what makes user interfaces usable and accessible to diverse individuals. Covers human senses and memory and their design implications, requirement solicitation, user-centered design and prototyping techniques, and expert and user evaluations. Interdisciplinary course for social science and engineering majors. Students cannot receive credit for this course and Computer Engineering 231 or Psychology 223. (Also offered as Computer Engineering 131. Students cannot receive credit for both courses.) Prerequisite(s): course 3 or Computer Science 12B.

### **135. Feelings and Emotions.**

Focuses on contemporary research in the psychology of human emotions. Special attention given to work in cognitive science, including psychology, linguistics, philosophy, and anthropology, on how emotions are central to understanding human action and mental life. Enrollment restricted to psychology, linguistics, philosophy, and anthropology majors.

### **139G. Conversations.**

Explores how conversations work and how speakers accomplish their goals in an interaction. Topics include conversational structure, turn-taking, variation in language use, and the functions of discourse markers (words like "um," "uh," and "you know"). Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 136.) Enrollment restricted to junior

and senior psychology and linguistics majors. Enrollment limited to 30.

### **140C. Health Psychology. F**

Course examines the psychological aspects of health, illness and healing. Focuses primarily on etiology, treatment and prevention; specific topics include stress and the immune response, social support, compliance, health beliefs, and the healing relationship. Prerequisite(s): courses 3 and 40.

### **140G. Women's Lives in Context.**

Examines contemporary theories, findings, and social issues regarding the psychology of women. Emphasis is placed on understanding how gender, class, race, ethnicity, and sexuality shape women's experiences across the lifespan. Students cannot receive credit for this course and course 41. Enrollment restricted to junior and senior psychology, feminist studies, sociology, and community studies majors.

### **140Q. Social Psychology of Sex and Gender.**

Considers individual, interpersonal, and cultural influences on gender similarities and differences in thinking, motivation, and behavior. Emphasizes factors related to power and status inequalities between women and men. Prerequisite(s): courses 3 and 40.

### **140T. Psychology of Trauma.**

Overview of psychological theory and research on trauma and traumatic stress, including responses to childhood trauma (especially sexual abuse), combat, and natural disasters. Variety of theoretical frameworks presented, including developmental, cognitive, neuropsychological, clinical, and social/contextual. Prerequisite(s): course 3 or permission of instructor.

### **143. Intergroup Relations.**

Introduces the study of conflict and intergroup relations. Examines historical and cultural foundations of group psychology and social psychological theory and research on conflict between groups, cultures, and nations. Surveys work on multiculturalism, race relations, and global political conflict. Applies social psychological theories to cases of intergroup conflict. Prerequisite(s): course 3 and 40. (General Education Code(s): E.)

### **159E. Peace Psychology.**

Is war inevitable? What is peace? Is it more than the absence of violence? Explore how psychology—the study of human behavior—can help to decrease violence and enhance cooperation at multiple levels including the personal, interpersonal, community, and international arenas. Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 140R.) Enrollment restricted to senior psychology majors. Enrollment limited to 30.

### **159H. Community-Based Interventions.**

What makes a successful intervention, what happens before the formal intervention begins, the ethics involved with interventions, different methods for assessing interventions, and different praxis models. Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 149A.) Prerequisite(s): course 3. Enrollment restricted to senior psychology majors. Enrollment limited to 30.

### **159I. Social Psychology of Flimflam.**

Why do we believe strange things? This course investigates such flimflams as beliefs in the Loch Ness Monster,

quack health care, and racial superiority to illustrate the underlying social psychological principles that lead us to adopt weird attitudes. Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 150.) Enrollment restricted to psychology majors. Enrollment limited to 30.

### **159T. Small Groups.**

Course strives toward three goals of varying specificity: knowledge of the psychological literature on small groups, aspects of group functioning, and what theorists have found in group studies; effectiveness in group settings; and behavior in group settings. Students required to set aside one weekend for lab work. Satisfies the seminar requirement. Satisfies the senior comprehensive requirement. Prerequisite(s): course 40. Enrollment limited to senior psychology majors. Enrollment limited to 30.

### **162. The Psychology of Creativity.**

The study of creative people, processes, and places in the arts, literature, science, business, and education. Examines theories, systematic research, and case studies. Social roles, economic factors, child-rearing practices, and educational methods which may influence creativity are also studied. (Formerly course 162A.) Prerequisite(s): course 3, course 60 is recommended as preparation.

### **169. Community Mental Health.**

Examines theory and research on outreach and prevention for application with various populations in community settings (e.g., victims of violence, immigrants, severely mentally ill); presents characteristics of successful agencies and agency development. Surveys interventions currently used in community mental health. Prerequisite(s): course 3. Courses 60 and 170 recommended.

### **171. Childhood Psychopathology.**

A critical and intensive exploration of a wide variety of specific disorders within their biological, developmental, and social contexts. Concepts of psychopathology in childhood, major and minor diagnostic systems, and a variety of theories of etiology are explored. General intervention strategies and a wide range of specific psychotherapy systems for treatment are closely examined and demonstrated. Prerequisite(s): courses 3, 10, and 170.

### **191A. Introduction to Psychology.**

Students lead discussion groups and provide one-to-one tutoring for course 1. Admission requires essay describing interest in becoming a course assistant, copies of psychology evaluations, and a letter of recommendation from a psychology faculty member; completion of some upper-division psychology courses prior to enrollment in this course. Enrollment restricted to psychology majors. Enrollment limited to 20.

### **194A. Advanced Developmental Research.**

Provides students with intensive experience conducting current research in developmental psychology. Students submit petition to sponsoring agency. May be repeated for credit.

### **194B. Advanced Cognitive Research.**

Provides students with intensive experience conducting current research in cognitive psychology. Students submit petition to sponsoring agency. May be repeated for credit.

### **194C. Advanced Social Research.**

Provides students with intensive experience conducting current research in social psychology. Students submit petition to sponsoring agency. May be repeated for credit.

### **204. Quantitative Data Analysis.**

Intermediate statistical methods widely used in psychology (e.g., n-way, ANOVA, ANCOVA, multiple-comparisons, repeated-measures, nested-designs, correlational analyses, bivariate regression), corresponding SAS programs, and elements of measurement theory. Enrollment restricted to graduate students. Enrollment limited to 20.

### **211A. Proseminar: Social Justice and the Individual.**

Provides an introduction to social psychology, focusing on various individual-level social justice topics, including the self, social comparison, individual and collective identity, social historical and social structural determinants of behavior and various policy and social change-related issues. Enrollment restricted to psychology graduate students; undergraduates planning graduate work in social psychology may enroll with permission of instructor. Enrollment limited to 20.

### **223. Human-Computer Interaction.**

Theory and hands-on practice to understand what makes user interfaces usable and accessible to diverse individuals. Covers human senses and memory and their design implications, requirement solicitation, user-centered design and prototyping techniques, and expert and user evaluations. Individual research project. Interdisciplinary course for social science and engineering graduate students. Students cannot receive credit for this course and course 131. (Also offered as Computer Engineering 231. Students cannot receive credit for both courses.) Enrollment restricted to graduate students.

### **224A. Proseminar: Cognitive I.**

A proseminar reviewing current topics in cognitive psychology, designed to introduce new graduate students to the field. Enrollment restricted to psychology graduate students. Enrollment limited to 10.

### **225A. Introduction to Developmental Research I (3 credits).**

Surveys the rationale and techniques of research in developmental psychology. Students build skills in evaluating published research, in translating theoretical ideas into researchable hypotheses, and in selecting appropriate research designs, measurement, and statistical approaches for research problems. Multiple-term course; students receive 6 credits in the second quarter of attendance; the grade and evaluation submitted for the final quarter applies to both quarters. Enrollment restricted to psychology graduate students or with instructor's permission. May be repeated for credit.

### **227. Contemporary Issues in Psychology of Language.**

Special topics in thought and language are examined from the perspectives of cognitive science. Particular attention given to embodied experience and higher-order cognition. Enrollment restricted to graduate students. May be repeated for credit.

### **230. Research in Cognitive Psychology Seminar.**

Seminar to study, critique, and develop research in perception and cognition, including topics in psychobiology,

psycholinguistics, and memory. Enrollment restricted to psychology graduate students. May be repeated for credit.

### **231. Research in Social Psychology Seminar.**

Seminar to study, critique, and develop research in social psychology. Enrollment restricted to psychology graduate students. May be repeated for credit.

### **242. Research in Developmental Psychology Seminar.**

Seminar to study, critique, and develop research in developmental psychology. Enrollment restricted to psychology graduate students. May be repeated for credit.

### **244A. Proseminar I: Cognitive and Language Development.**

Explores major theories and research in the fields of cognitive development and language development. Begins with classic theories, such as Piaget's theory of cognitive development, and proceeds to theories and research on topics of current interest, such as the relation between culture and cognitive and language development. Enrollment restricted to graduate students.

### **246. Cultural Diversity in Human Development.**

Focuses on issues of culture and ethnicity in our theoretical and empirical understanding of human development. Particular attention paid to issues of language, culture, and socialization as they relate to social institutions, such as education, that affect children and families. Enrollment restricted to graduate students. Enrollment limited to 20.

### **248. Survey Methods.**

Practicum to give students hands-on experience with survey methods by conducting their own survey on the topic of their choice. Course requires the survey to be conducted off campus at a local agency or program chosen by student with approval of instructor. Enrollment restricted to graduate students. Enrollment limited to 10.

### **290B. Advanced Developmental Research and Writing (2 credits).**

Tailored to graduate students' interests among topics involving research and scholarship in sociocultural approaches to development, methods for research design, data collection, coding, and analysis, and preparing and reviewing grant proposals and journal manuscripts. Multiple-term course; students receive 6 credits in the third quarter of attendance; the performance evaluation and grade submitted for the final quarter applies to all three quarters. Enrollment restricted to graduate students. May be repeated for credit.

### **290C. Professional Development (3 credits).**

Designed to aid advanced psychology graduate students with development of competence in professional activities (e.g., preparing a vita, making job and conference presentations, submitting and reviewing manuscripts and grant proposals, professional communication, career decisions). Multiple-term course; students receive 6 credits in the second quarter of attendance; the grade and evaluation submitted for the final quarter applies to the previous quarter. Enrollment restricted to advanced psychology graduate students. May be repeated for credit.

### Russian

#### **1. Instruction in the Russian Language.**

Aural comprehension, speaking, reading, and writing. Recitation and laboratory. Elementary sequence (1-2-3) begins in the fall quarter only.

#### **4. Intermediate Russian.**

Second-year courses designed to improve functional competence in speaking, listening, reading, and writing by activating basic grammar covered in introductory courses. Grammatical explanations and exercises supplemented with short readings and films. Prerequisite(s): course 3; or permission of instructor. (General Education Code(s): IH.)

### Science Communication

#### **201A. Reporting and Writing Science News.**

A survey of the conventions of newspaper journalism and the special application of those conventions to scientific and technological subjects. Enrollment restricted to graduate students formally accepted into the writing track of the Science Communication Program.

#### **202. Writing and Editing Workshop.**

Theory and practice of writing and editing articles on scientific, medical, environmental, and technological subjects for newspapers, magazines, and special publications directed at non-technical readers. Enrollment restricted to graduate students formally accepted into the writing track of the Science Communication Program. May be repeated for credit.

### Social Documentation

#### **200. Approaches to Social Documentation.**

Comprehensive review and analysis of documentary strategies aimed at societal critique and social change, evaluating changes in argument, evidence, and process over development of the discipline. Enrollment restricted to social documentation graduate students. Enrollment limited to 15.

#### **202. Practice of Social Documentary.**

Provides basic skills in social documentary genres including video, audio, and photography and discusses how to apply social scientific research and methodology in the context of these processes. A concurrent media lab is required. Enrollment restricted to social documentation graduate students. Enrollment limited to 15.

#### **291. Media Laboratory for Social Documentation (2 credits).**

Individual training in a social documentation medium under the guidance of a faculty supervisor. Course is intended to be taken concurrently with social documentation courses requiring a laboratory course. Enrollment restricted to social documentation graduate students. Enrollment limited to 10. May be repeated for credit.

#### **294A. Production/Analysis/Editing.**

Workshop seminar oriented toward actual fieldwork and production of the thesis project in the student's chosen genre. Techniques of collection and recording, analysis, preparation, and editing taught. Enrollment restricted to social documentation graduate students. Enrollment limited to 15.

### Social Sciences

#### **194A. UCDC Internship and Internship Seminar.**

Weekly seminar that focuses on the production of a major research paper or equivalent scholarly undertaking connected to an internship in Washington, D.C., government, non-profit, or private institution. Seminar stresses institutional analysis, the development of bibliographic expertise in the use of Washington-based resources, and participant-observer skills. Required for participants in the UCDC program. Enrollment restricted to students participating in the UCDC Program. Enrollment limited to 22.

#### **194B. UCDC Internship and Internship Seminar (7 credits).**

Weekly seminar that focuses on the production of a major research paper or equivalent scholarly undertaking connected to an internship in Washington, D.C., government, non-profit, or private institution. Seminar stresses institutional analysis, development of bibliographic expertise in the use of Washington-based resources, and participant-observer skills. Required for participants in the UCDC program. Enrollment restricted to students participating in the UCDC Program. Enrollment limited to 22.

### Sociology

#### **1. Introduction to Sociology.**

A systematic study of social groups ranging in size from small to social institutions to entire societies. Organized around the themes of social interaction, social inequality, and social change. Fulfills lower-division major requirement. (General Education Code(s): IS.)

#### **15. World Society.**

Introduction to comparative and historical sociology. Focuses on the global integration of human society. Examines social changes such as industrialization, globalization, colonial rule, and the rise of Islamic fundamentalism. Uses social theory (including ideas from Marx, Weber, and Adam Smith) to explore the making of institutions like the nation-state, the World Trade Organization, the World Bank, and the International Monetary Fund. Fulfills lower-division major requirement. (General Education Code(s): IS, E.)

#### **30A. Information Methods for Global Information Internships (3 credits).**

Introduction to information technology and communication networks using the Internet to reduce global inequality and bridge the "digital divide." Prepares students enrolled in the Global Information Internship Program to construct web pages and write grant proposals for community and non-governmental organizations. Course 186 recommended but not required. Enrollment limited to 60. May be repeated for credit.

#### **105A. Classical Sociological Theory.**

This intensive survey course examines the intellectual origins of the sociological tradition, focusing on changing conceptions of social order, social change, and the trends observed in the development of Western civilization in the modern era. Readings are all taken from original texts and include many of the classical works in social theory with special emphasis on the ideas of Marx, Weber, and Durkheim which constitute the core of the discipline. Required for sociology majors planning on studying abroad (EAP). Enrollment restricted to

sociology, proposed sociology, the combined Latin American and Latino studies/sociology, and the proposed combined Latin American and Latino studies/sociology majors and sociology minors.

#### **111. Family and Society.**

Focuses on the interaction between family and society by considering the historical and social influences on family life and by examining how the family unit affects the social world. Readings draw on theory, history, and ethnographic materials.

#### **119. Sociology of Knowledge.**

Focus includes the following three areas: historical examination of sociological theories of knowledge with reference to Durkheim, Weber, Mannheim, and others; examination of black and feminist perspectives within sociology; examination of whether and how "outside" observers can analytically grasp the inner workings of other cultures. Prerequisite(s): course 103B or 105A or 105B.

#### **128I. Race and Criminal Justice.**

An introduction to comparative and historical analyses of the relations between race and criminal justice in the U.S. Emphasis on examinations of structural mechanisms that help maintain and perpetuate racial inequality in law, criminal justice, and jury trials. (Also offered as Legal Studies 128I. Students cannot receive credit for both courses.) Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 120.

#### **129. Popular Culture.**

Examines the hidden politics of popular pleasure and the terrain of the popular, not solely analyses of media. Examines popular cultural products or representations, and practices. Focuses on the relationship of domination and resistance to both cultural production and consumption, and considers the terrain of the popular as key site for the reproduction of structures of inequality and how hegemonic discourses render the politics of resistance invisible. Enrollment restricted to juniors and seniors. Enrollment limited to 40.

#### **149. Sex and Gender.**

Modern analyses of sexuality and gender show personal life closely linked to large-scale social structures: power relations, economic processes, structures of emotion. Explores these links, examining questions of bodily difference, femininity and masculinity, structures of inequality, the state in sexual politics, and the global re-making of gender in modern history. Recommended as background: any lower-division sociology course.

#### **152. Body and Society.**

Critically examines the place of the human body in contemporary society. Focuses on the social and cultural construction of bodies, including how they are gendered, racialized, sexualized, politicized, represented, colonized, contained, controlled, and inscribed. Discusses relationship between embodiment, lived experiences, and social action. Focuses on body politics in Western society and culture, especially the United States. An introductory sociology course is recommended prior to taking this course. Enrollment restricted to juniors and seniors. Enrollment limited to 50.

#### **155. Political Consciousness.**

Explores the relationship between consciousness, ideology, and political behaviors from voting to rebellion. Special attention is given to the lived experience and the identity

interests that complicate the nexus of class position and political ideology. An introductory sociology course is recommended as preparation.

**167. Development and Underdevelopment.**

Examines contemporary debates about development in the Third World: alternative meanings of development, recent work on the impact of colonial rule, how some economies have industrialized, ideas about agrarian change, and recent research on paths out of poverty. Students work in pairs to examine a development in one country since World War II.

**173. Water.**

Analyzes access to clean water, both in the American West and global South. Reviews water quality, pivotal role of water in settlement and society, history and contemporary inequalities, water supplies, international conflict over water, climate change, and human use of water. Enrollment restricted to juniors and seniors. Enrollment limited to 60.

**177A. Latinos/as and the American Global City.**

Examines roles of emerging Latino/a majorities in urban centers across the U.S. Explores the “Latinization” of U.S. cities and various factors affecting the life chances of Latinos/as including, but not limited to, immigration, segregation, social movements, and other forms of political participation. Enrollment restricted to juniors and seniors. Enrollment limited to 35.

**201. The Making of Classical Theory.**

Examines the establishment of “theory” in the discipline of sociology. Introduces students to close readings and analysis of a core selection of social theory. Problematises the construction, maintenance, and reproduction of a theoretical canon in sociology. Enrollment restricted to graduate students in sociology and by permission number. Enrollment limited to 20.

**203. Sociological Methods.**

Approaches methods as a series of conscious and strategic choices for doing various kinds of research. Introduces students to the epistemological questions of method in social sciences; to key issues in “technique,” particularly control, reliability, and validity; and to good examples of social research. Enrollment restricted to graduate students in sociology and by permission number.

**205. Field Research Methods.**

Gives students first-hand experience doing fieldwork with an emphasis on participant observation and some interviewing. Students submit weekly field notes and a final project analysis. At seminar meetings, field experiences and relevant literature are examined. Enrollment restricted to graduate students in sociology and by permission number. Enrollment limited to 10. Offered in alternate academic years.

**229. Work and Labor Markets in the New Economy.**

Focuses on the interaction of work restructuring and existing race/class/gender inequalities. Themes include: the labor process and theories of consent; labor market segmentation; job and occupational segregation; information technologies, flexible work, and post-industrialism; flexible employment relations; and low-wage service and labor markets. Enrollment restricted to graduate students.

**293. Going on the Job Market.**

A seminar devoted to the practical problems of securing a job as a professional sociologist. Topics covered: researching colleges, universities, and public and private organizations that employ sociologists; designing a curriculum vitae; writing an application letter; preparing a “job talk;” handling questions during the interview process; the etiquette of visiting (and its aftermath); finding out about them; and the terms of employment: what is negotiable and what is not. Enrollment restricted to graduate students.

**Spanish**

**1. Instruction in the Spanish Language.**

Speaking, listening comprehension, reading and writing fundamentals. Taught entirely in Spanish; conversational fluency is encouraged through classroom practice and conversation groups, and is supplemented by language laboratory work. Classes are held three days a week; students complete the conversation group work independently of the classroom sessions. Prerequisite(s): Spanish Placement Examination score of 10. Enrollment limited to 24.

**1T. Topic-Oriented Spanish Language Instruction (Special Track).**

Prepares students to understand, speak, and write on topics (geography, nature, society, art, history, etc.) and to provide information about themselves and their surroundings. Emphasis on the development of proficiency in all language skills and the active use of Spanish through task-oriented activities. Multiple-term course; students receive 5 credits per course and receive credit for all three courses upon completion of course 3T. Prerequisite(s): Spanish Placement Examination score of 10. Enrollment limited to 24.

**1U. Laboratory to Topic-Oriented Spanish Language Instruction (2 credits).**

Consists of individualized instruction which allows students to work at their own pace developing their oral comprehension, reading comprehension, speaking and writing skills. Provides the supplementary exposure and practice students need in the acquisition of the target language. Multiple-term course; students receive credit for all three courses upon completion of course 3U. Prerequisite(s): interview only; Spanish Placement Examination score of 10.

**2. Instruction in the Spanish Language.**

Speaking, listening comprehension, reading and writing fundamentals. Taught entirely in Spanish; conversational fluency is encouraged through classroom practice and conversation groups, and is supplemented by language laboratory work. Classes are held three days a week; students complete the conversation group work independently of the classroom sessions. Prerequisite(s): course 1 or Spanish Placement Examination score of 20. Enrollment limited to 24.

**3. Instruction in the Spanish Language.**

Speaking, listening comprehension, reading and writing fundamentals. Taught entirely in Spanish; conversational fluency is encouraged through classroom practice and conversation groups, and is supplemented by language laboratory work. Classes are held three days a week; students complete the conversation group work independently of the classroom sessions. Prerequisite(s): course 2, 2X, or Spanish Placement Examination score of 30. Enrollment limited to 24.

**4. Intermediate Spanish.**

Includes comprehensive grammar review, composition, readings, and discussion. Reading and audiovisual material deal with various sociopolitical and cultural issues in the Spanish speaking world. Classes are conducted in Spanish. Prerequisite(s): course 3, 3T, 3X, or Spanish Placement Examination score of 40. Enrollment limited to 24. (General Education Code(s): IH.)

**5. Intermediate Spanish.**

Includes comprehensive grammar review, composition, readings, and discussion. Reading and audiovisual material deal with various socio-political and cultural issues in the Spanish speaking world. Classes are conducted in Spanish. Prerequisite(s): course 4, 4X, or Spanish Placement Examination score of 50. Enrollment limited to 24. (General Education Code(s): IH.)

**5M. Medical Spanish.**

Students learn vocabulary, expressions, and cultural background to be able to interact with Spanish-speaking patients and doctors. Medical Spanish fulfills language requirement for the health science major of the Biology Department. Prerequisite(s): course 4; or Spanish for Spanish Speakers 61, 62, and 63; or Spanish for Spanish Speakers 125; or Spanish Placement Examination score of 50 or higher. Enrollment restricted to health sciences majors. Enrollment limited to 24. (General Education Code(s): IH.)

**6. Intermediate Spanish.**

Increases oral and written proficiency using authentic reading materials which focus on such topics as social class, ethnicity, education, religion, economic, and political developments in the Spanish-speaking world. Prerequisite(s): course 5, 5M, 5X, or Spanish Placement Examination score of 60. Enrollment limited to 24. (General Education Code(s): IH.)

**156A. The Language of Latin America Cinema.**

Explores Latin American culture through its cinematic art. Students are exposed to and participate in discussion, analysis, and commentary on important social, historical, and political issues presented in the films. Provides a greater understanding of Latin America, and works toward advanced communicative proficiency and comprehension of linguistic variations in countries such as Cuba, Argentina, México, Bolivia, Chile, and others. (Formerly *Hispanic Culture Through Film*.) Prerequisite(s): course 6, 56, Spanish for Spanish Speakers 63, or Spanish Placement Examination score of 70. (General Education Code(s): E.)

**Spanish for Spanish Speakers**

**61. Spanish for Spanish Speakers.**

This course deals with orthography (syllabification, accentuation, etc.), basic grammatical features, verbal structures, and development of conversation skills and confidence in spoken Spanish. Focus on development of writing skills: description, dialogue, exposition, and commentary on contemporary issues relevant to Spanish speakers of the Americas. Students need to utilize the Self-Placement Guidelines, available in Crown 122 to assure proper placement in this class. (General Education Code(s): IH.)

**Theater Arts**

**10. Introduction to Theater Design and Technology.**

Addresses imagination and creativity. Using the framework of theater production, students explore the process of translating a script into a performance. Topics include visual literacy, creative problem solving, establishing effective working teams, tear sheets, storyboarding, drawing, sound and color theory. This course is a prerequisite for all upper-division design courses. (General Education Code(s): IH, A.)

**12. Stage Management.**

Designed to acquaint students with the complexities of staging productions from the audition process to final performance. Directing, lighting, scenic production, sound, cueing, and personnel management are aspects that will be touched upon in class. Students are billed a materials fee. (Formerly *Production Management*.) (General Education Code(s): A.)

**20. Introductory Studies in Acting.**

Introduction to basic acting skills and the problems of performance. Concentrates on expanding the students' range of expression and ability to respond to and analyze dramatic text. Students with little or no experience are encouraged to attend. (General Education Code(s): IH, A.)

**21. Acting Studio I.**

Studio course involves acting exercises based on the Stanislavski principles of acting as well as work on movement, voice, and interpretation of text. Enrollment by audition. Prerequisite(s): course 20 or permission of instructor. Enrollment limited to 30. (General Education Code(s): A.)

**23. Voice for the Actor.**

Students work on developing resonance, range and expressivity for stage performance via physical exercises and text explorations undertaken in small groups. Prerequisite(s): course 20. Audition required for acceptance into class. Enrollment limited to 20. (General Education Code(s): A.)

**30. Introduction to Modern Dance Theory and Technique.**

Intensive instruction in developing the dancer's physical instrument, combined with basic movement theory. May be repeated for credit with consent of instructor. Students are billed a materials fee. May be repeated for credit. (General Education Code(s): IH, A.)

**31C. Dance Studio I.**

Introduction to contemporary dance theory and practice. Focus on basic dance technique, range of styles, and aesthetic points of view of historically significant contemporary dance choreographers in America and worldwide. Students are billed a materials fee. Enrollment limited to 30. (General Education Code(s): A.)

**40. Introduction to Directing.**

An overview of the analytical and creative processes that inform the director's work. Close examination of texts, concepts, and directorial choices in staged performances, opera, films, and video. (General Education Code(s): IH, A.)

**50. Fundamentals of Theater Production (2 credits).**

Work is on various aspects of theatrical production, including scenery, lighting, costumes, sound, stage management, and video documentation. Satisfies the department's technical experience requirement. May be repeated for credit. (General Education Code(s): A.) ,

**55A. Workshop in Performance: Barnstorm.**

Process-oriented investigation of practical theater production by working in and on productions in the Barnstorm season. Requires a total of 150 hours working backstage or onstage. Admission by audition at first class meeting; see department office for more information. May be repeated for credit.

**55B. Workshop in Performance: Barnstorm Lab (2 credits).**

Process-oriented investigation of practical theater production by working in and on productions in the Barnstorm season. Requires a total of 50 hours working backstage or onstage. Admission by audition at first class meeting; see department office for more information. May be repeated for credit.

**61. Issues and Methods in Theater Arts.**

Introduces issues and methods for analyzing historical and contemporary performance practices from a variety of disciplinary perspectives. Readings contextualize theatrical objects as well as offer theoretical tools for analyzing, interpreting, and making performances out of them. (General Education Code(s): IH, A.)

**80L. Muppet Magic: Jim Henson's Art.**

The artistic and social impact of the Muppets on American puppetry, children's television, and Hollywood film is explored through viewings, guest lectures, and analysis. Henson's legacy in artistic innovation, mainstreaming of puppet theater for adult audiences, and establishment of puppetry in media and marketing are also explored. (General Education Code(s): T4-Humanities and Arts, A.)

**80Z. Indian Dance.**

Classical Indian dance will be studied as a performance practice. Understanding of drum syllables and associated steps, religious and sociological context, and mimesis (abhinaya) as well as introduction to epic stories (Ramayana, Mahabharata, Bhagavata Purana) and classical song. (General Education Code(s): T4-Humanities and Arts, A.)

**100A. Asian Theater/Dance and Global Impacts.**

Overview of selected theater/dance performance genres of India, Indonesia, China, Korea, and Japan with attention to how cultural, political, and social flows have impacted contemporary performance in Asia and beyond. Lectures supplemented by workshops. (General Education Code(s): A, E.)

**113. The History of Design for Theater.**

The development of scenic design from the Greek period to the present. Concentration is on the changing styles of set design in relation to the changing attitudes toward dramatic literature, art, and theater architecture. (General Education Code(s): A.)

**124. Movement for Performers.**

Awareness and extension of personal movement repertoire, through observation, movement experience, and exploration. (General Education Code(s): A.)

**126. Acting Studio III.**

Individual work on acting skills and problems, with emphasis on individual interpretation and scene work with other students. Prerequisite(s): course 121; permission of instructor; audition at first class meeting—contact department office for more information. Enrollment limited to 18. May be repeated for credit. (General Education Code(s): A.)

**128. Choreographic Workshop.**

Intensive upper-division choreographic workshop that begins from the key motifs of historical dance to develop original work. Dancers made available to the student choreographers. Course is a prerequisite for the student-choreographed production *Random With a Purpose*. Enrollment limited to 15. (General Education Code(s): A.)

**136C. Dance Studio III.**

Advanced study of contemporary dance theory and practice. Focus on dance performance, creative process, and choreographic form in a contemporary style. Students are billed a materials fee. Enrollment limited to 30. May be repeated for credit. (General Education Code(s): A.)

**151. Studies in Performance (Drama).**

Studies in theater, taken in connection with participation in a Theater Arts Department sponsored production. Enrollment is limited to those persons chosen to take part in a particular production. Admission by audition; audition schedule to be announced at first class meeting. May be repeated for credit. (General Education Code(s): A.)

**157. Playwriting.**

Students are given the opportunity to write their own scripts and refine them as the result of class discussion and scenework with actors. Work is on specific problems involving such elements as the structuring of a plot or the development of character. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. May be repeated for credit. (General Education Code(s): W,A.)

**163G. Special Studies in Playwrights: Artaud.**

Antonin Artaud through three critical lenses: influence on modern and contemporary theater, subject and site of psychoanalytic and social criticism, and theater practitioner. Exercises cultural, historical, and analytic approaches to his work. Prerequisite(s): course 60C; course 160 recommended. Enrollment limited to 40. (General Education Code(s): A.)

**165. Introduction to Dance Modernism.**

Rare historical footage and the writings of famous choreographers provide an overview of 20th-century dance within the perspective of modernism. Topics include romanticism, "natural" dance, Orientalism, Ausdrucksstanz, "industrial" dance, American modern dance and neo-classicism, chance procedure, postmodernism, and the avant-garde commodity marketplace. (Formerly course 134.) (General Education Code(s): A.)

**170. Design Seminar (2 credits).**

Seminar to help advanced designers segue from student to professional. Topics to include portfolio construction, interview styles, guest speakers, and more. Enrollment restricted to senior and graduate students in Theater Arts. May be repeated for credit.

## PUBLICATIONS UPDATE

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### **185. Senior Seminar.**

A required seminar for majors involving readings and discussions of important texts in dance, design, and drama. Prerequisite(s): course 160.

### **290. Special Topics and Area Concentration.**

Study group meetings on a regular basis which involve either the study of shared texts or presentations by the group members and invited guests. Enrollment restricted to graduate students in theater arts. May be repeated for credit.

### **Writing**

#### **1. Composition and Rhetoric.**

A basic composition course, which helps students find specific, practical ways of improving every aspect of their writing, through a broadly based consideration of the nature of language from a diversity of perspectives. Prerequisite(s): satisfaction of the Entry Level Writing requirement. Enrollment limited to 25. (General Education Code(s): C.)

#### **2. Rhetoric and Inquiry.**

Explores the intersections of investigation, interpretation, and persuasion and hones strategies for writing and research. Students develop specific, practical ways of improving their writing through sustained critical thinking about diverse issues from multiple points of view. Students cannot receive credit for this course and course 1. Prerequisite(s): satisfaction of the Entry Level Writing and C1 requirements. Enrollment limited to 25. (General Education Code(s): C2.)

### **22A. Grammar and Editing Workshop (3 credits).**

Offers instruction on selected topics in grammar and conventions of written English as needed to strengthen the writing skills of students whose primary language is not standard English. Provides students practice in applying these concepts to editing their own writing. Designed for entering first-year students. Enrollment limited to 22.

### **23. Grammar and Rhetoric: Language for Writing.**

Builds on writing skills gained in previous writing courses; focuses on effective language use in academic writing. Students reinforce their written English proficiency by reading, studying, practicing, and writing structures and patterns of written English. Enrollment restricted to students who have not passed the Entry Level Writing Requirement. Open to others by permission of instructor. Enrollment limited to 22.

### **169. Theory and Practice of Tutoring Writing (3 credits).**

An introduction to theory and research on the composing process and practical strategies for teaching writing, especially in tutorial situations. Recommended for writing assistants. Prerequisite(s): instructor determination at first class meeting; course intended for writing tutors only. Enrollment limited to 30.

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## ADVERTISEMENT

# *Career Center*

305 Bay Tree Building, 3rd Floor

## New Office Hours

Office hours: 8:00 A.M. – 5:00 P.M., Monday – Friday

### **Career Center Services:**

- Career Advising
- Workshops
- Graduate School Services
- Computer Lab
- On-Campus Interviews
- Career Positions
- Internships
- Resource Library
- On- and Off-Campus (Part-time Jobs)

### **Graduate and Professional School Fair**

11:00 A.M. – 3:00 P.M., Monday, October 20, 2008

Stevenson Event Center

(831) 459-4420 • FAX (831) 459-4018 • <http://www2.ucsc.edu/careers/>

# Extra! Extra!

*Read all about it  
or  
Download your copy of the:*

**UCSC Policy on Sexual Assault,**

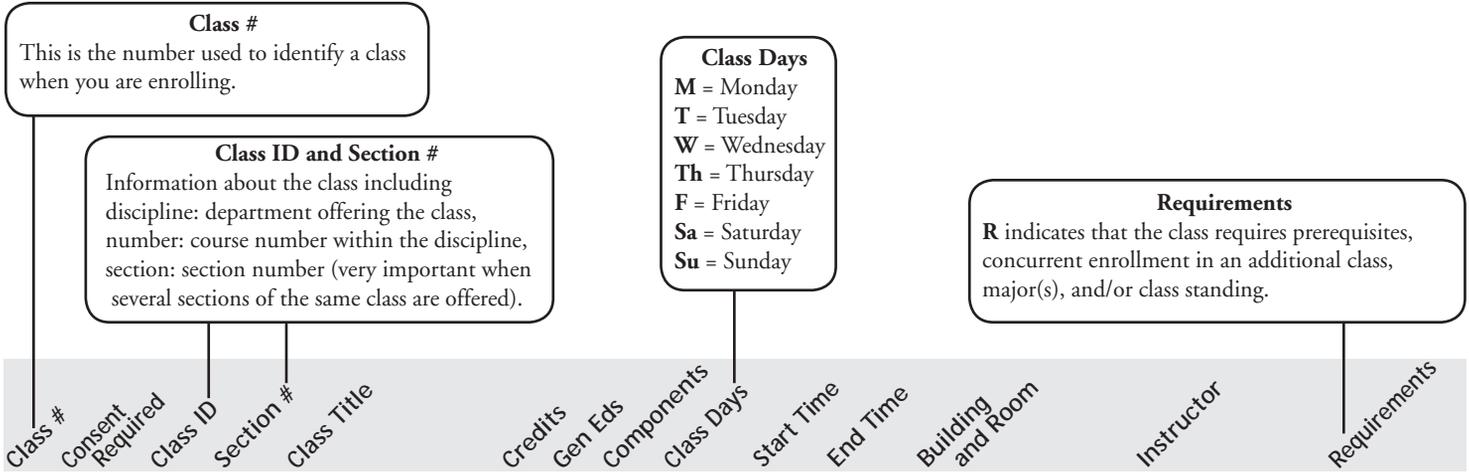
**The University of California  
Policy on Sexual Harassment**

AND

Procedures for Reports of Sexual Assault(s)  
and Sexual Harassment

Online at [www2.ucsc.edu/title9-sh](http://www2.ucsc.edu/title9-sh) e-mail: [rew@ucsc.edu](mailto:rew@ucsc.edu)  
or call the Title IX office for a copy, (831) 459-2462

# Reading the Class Listings



Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
91838	Y	BIOL-75	-01	Sci Diving Cert	2		FLD				Ocean Health 201	Clabuesch, S.R.	R
91840		BIOL-169L	-01	Plant Ecology Lab	5	W	LAB	TTh	01:30P-05:30P		Thimann Lab 203	Parker, I.M.	R
<i>Concurrent enrollment in BIOL 169 is required; taught in conjunction with BIOL 269L</i>													
91842		BIOL-175	-01	Evolution	5		LEC	MWF	11:00A-12:10P		N. Sci Annex 101	Pogson, G.	R
<i>Enroll in lecture and associated discussion section</i>													
91844		BIOL-175	-01A	Secondary Discuss	0		DIS	T	08:30A-09:40A		N. Sci Annex 102	Staff	
91846		BIOL-175	-01B	Secondary Discuss	0		DIS	Th	12:00P-01:10P		N. Sci Annex 102	Staff	

**Consent Required**  
Classes that are flagged with a "Y" require additional permission from the department or instructor.

**General Education Codes (Gen Ed)**  
**H** = Intro to Humanities and Arts  
**N** = Intro Natural Sciences  
**S** = Intro Social Sciences  
**C, C1, C2** = Composition Course  
**W** = Writing-Intensive Course  
**Q** = Quantitative Course  
**A** = Arts Course  
**E** = U.S. Ethnic Minorities/Non-Western Society Course  
**Topical Courses**  
**2** = Natural Sciences  
**3** = Social Sciences  
**4** = Humanities & Arts  
**5** = Humanities & Arts or Social Sciences  
**6** = Humanities & Arts or Natural Sciences  
**7** = Natural Sciences or Social Sciences

**Activity Codes**  
**LEC** = Lecture  
**SEM** = Seminar  
**IND** = Individual study  
**LAB** = Primary lab course  
**STU** = Studio  
**FLD** = Field study  
**LBI** = Lab individual study  
**STI** = Studio individual study  
**FLI** = Field individual study  
**DIS** = Secondary discussion section  
**LBS** = Secondary lab  
**STS** = Secondary studio  
**FLS** = Secondary field study

**Note**  
This is a reminder that there is an associated discussion section or lab that must also be enrolled in when enrolling for the lecture.

**Check the online schedule for updates, additions, and room assignments for secondary discussions and labs.**

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
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## College Eight

All College Eight frosh are required to take CLEI 80A or 80B. Please refer to the advising packet from your college for details on enrolling in the class.

21897		CLEI-80A-01		UD:Environ/Society	5	3CI	SEM	MWF Th	11:00A-12:10P 04:00P-05:45P		Eight Acad 250 Media Theater M110	Staff Staff	R
21898		CLEI-80A-02		UD:Environ/Society	5	3CI	SEM	MWF Th	03:30P-04:40P 04:00P-05:45P		Eight Acad 242 Media Theater M110	Staff Staff	R
21899		CLEI-80A-03		UD:Environ/Society	5	3CI	SEM	TTh Th	08:00A-09:45A 04:00P-05:45P		Eight Acad 242 Media Theater M110	Staff Staff	R
21900		CLEI-80A-04		UD:Environ/Society	5	3CI	SEM	TTh Th	08:00A-09:45A 04:00P-05:45P		Eight Acad 252 Media Theater M110	Staff Staff	R
21905		CLEI-80A-05		UD:Environ/Society	5	3CI	SEM	TTh Th	10:00A-11:45A 04:00P-05:45P		Eight Acad 242 Media Theater M110	Staff Staff	R
21906		CLEI-80A-06		UD:Environ/Society	5	3CI	SEM	TTh Th	10:00A-11:45A 04:00P-05:45P		Eight Acad 250 Media Theater M110	Staff Staff	R
21907		CLEI-80A-07		UD:Environ/Society	5	3CI	SEM	TTh Th	12:00P-01:45P 04:00P-05:45P		Eight Acad 242 Media Theater M110	Staff Staff	R
21908		CLEI-80A-08		UD:Environ/Society	5	3CI	SEM	TTh Th	12:00P-01:45P 04:00P-05:45P		Eight Acad 250 Media Theater M110	Staff Staff	R
21909		CLEI-80A-09		UD:Environ/Society	5	3CI	SEM	TTh Th	02:00P-03:45P 04:00P-05:45P		Eight Acad 242 Media Theater M110	Staff Staff	R
21910		CLEI-80A-10		UD:Environ/Society	5	3CI	SEM	MWF Th	09:30A-10:40A 04:00P-05:45P		Eight Acad 252 Media Theater M110	Staff Staff	R
21911		CLEI-80A-11		UD:Environ/Society	5	3CI	SEM	MWF Th	11:00A-12:10P 04:00P-05:45P		Eight Acad 252 Media Theater M110	Staff Staff	R
21912		CLEI-80A-12		UD:Environ/Society	5	3CI	SEM	MWF Th	12:30P-01:40P 04:00P-05:45P		Eight Acad 252 Media Theater M110	Staff Staff	R
22401		CLEI-80A-13		UD:Environ/Society	5	3CI	SEM	TTh Th	10:00A-11:45A 04:00P-05:45P		Eight Acad 252 Media Theater M110	Staff Staff	R
23177		CLEI-80A-14		UD:Environ/Society	5	3CI	SEM	TTh	12:00P-01:45P 04:00P-05:45P		Eight Acad 252 Media Theater M110	Staff Staff	R
23178		CLEI-80A-15		UD:Environ/Society	5	3CI	SEM	TTh Th	02:00P-03:45P 04:00P-05:45P		Eight Acad 250 Media Theater M110	Staff Staff	R
23179		CLEI-80A-16		UD:Environ/Society	5	3CI	SEM	TTh Th	02:00P-03:45P 04:00P-05:45P		Eight Acad 252 Media Theater M110	Staff Staff	R
24227		CLEI-80A-17		UD:Environ/Society	5	3CI	SEM	MWF Th	11:00A-12:10P 04:00P-05:45P		Eight Acad 242 Media Theater M110	Staff Staff	R
24228		CLEI-80A-18		UD:Environ/Society	5	3CI	SEM	MWF Th	02:00P-03:10P 04:00P-05:45P		Eight Acad 250 Media Theater M110	Staff Staff	R
21913		CLEI-80B-01		RI:EnvironmntSociety	5	3C2	SEM	MWF Th	09:30A-10:40A 04:00P-05:45P		Eight Acad 250 Media Theater M110	Staff Staff	R
21914		CLEI-80B-02		RI:EnvironmntSociety	5	3C2	SEM	TTh Th	08:00A-09:45A 04:00P-05:45P		Eight Acad 250 Media Theater M110	Staff Staff	R
24676		CLEI-80B-03		RI:EnvironmntSociety	5	3C2	SEM	MWF Th	12:30P-01:40P 04:00P-05:45P		Eight Acad 250 Media Theater M110	Staff Staff	R
21132		CLEI-90-01		Garden Internship	1		SEM	T	04:00P-05:30P		Eight Garden	Calsoyas,C.	R
		CLEI-99-XXX		Tutorial	5		IND		**To Be Arranged**		Staff		
				<i>See sponsoring agency for class number</i>									
		CLEI-99F-XXX		Tutorial	2		IND		12:00A-12:00A		Staff		
				<i>See sponsoring agency for class number</i>									
23502	Y	CLEI-170A-01		UC Sacramento Semnr	5		SEM		12:00A-12:00A			Dymski,G.	
23503	Y	CLEI-170B-01		UC Sacramento Intrn	5		FLD		12:00A-12:00A			Dymski,G.	
23504	Y	CLEI-170C-01		Law&Politics/Calif	5		SEM		12:00A-12:00A			Dymski,G.	
		CLEI-195-XXX		Senior Thesis	5		IND		**To Be Arranged**		Staff		
				<i>See sponsoring agency for class number</i>									
		CLEI-198-XXX		Indep Field Study	5		FLI		**To Be Arranged**		Staff		
				<i>See sponsoring agency for class number</i>									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
		CLEI-199-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
		CLEI-199F-XXX		Tutorial	2	IND			**To Be Arranged**			Staff	
		See sponsoring agency for class number											

## College Nine

Students who have not satisfied the Entry Level Writing requirement must enroll in course 80A by choosing a sections 01 through 11.

Students who have satisfied the Entry Level Writing requirement must enroll by choosing a section from 12 to 18.

21978	CLNI-80A-01	UD:Intl/Global Issues	5	3CI SEM TTh	02:00P-03:45P	Cowell Acad 216	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21979	CLNI-80A-02	UD:Intl/Global Issues	5	3CI SEM TTh	10:00A-11:45A	Soc Sci 2 141	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21980	CLNI-80A-03	UD:Intl/Global Issues	5	3CI SEM TTh	12:00P-01:45P	Soc Sci 2 141	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21981	CLNI-80A-04	UD:Intl/Global Issues	5	3CI SEM TTh	02:00P-03:45P	Soc Sci 2 141	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21982	CLNI-80A-05	UD:Intl/Global Issues	5	3CI SEM TTh	04:00P-05:45P	Soc Sci 2 141	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21983	CLNI-80A-06	UD:Intl/Global Issues	5	3CI SEM TTh	10:00A-11:45A	Soc Sci 2 363	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21984	CLNI-80A-07	UD:Intl/Global Issues	5	3CI SEM TTh	12:00P-01:45P	Soc Sci 2 363	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21985	CLNI-80A-08	UD:Intl/Global Issues	5	3CI SEM TTh	02:00P-03:45P	Soc Sci 2 363	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21986	CLNI-80A-09	UD:Intl/Global Issues	5	3CI SEM TTh	04:00P-05:45P	Soc Sci 1 145	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
22408	CLNI-80A-10	UD:Intl/Global Issues	5	3CI SEM TTh	04:00P-05:45P	Soc Sci 2 363	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
22409	CLNI-80A-11	UD:Intl/Global Issues	5	3CI SEM TTh	10:00A-11:45A	Soc Sci 1 145	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
22410	CLNI-80A-12	UD:Intl/Global Issues	5	3CI SEM TTh	12:00P-01:45P	Soc Sci 1 145	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
23281	CLNI-80A-13	UD:Intl/Global Issues	5	3CI SEM TTh	02:00P-03:45P	Soc Sci 1 145	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
23414	CLNI-80A-14	UD:Intl/Global Issues	5	3CI SEM TTh	10:00A-11:45A	Soc Sci 1 149	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
23419	CLNI-80A-15	UD:Intl/Global Issues	5	3CI SEM TTh	12:00P-01:45P	Soc Sci 1 149	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
24244	CLNI-80A-16	UD:Intl/Global Issues	5	3CI SEM TTh	02:00P-03:45P	Soc Sci 1 149	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
24245	CLNI-80A-17	UD:Intl/Global Issues	5	3CI SEM TTh	04:00P-05:45P	Soc Sci 1 149	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
24669	CLNI-80A-18	UD:Intl/Global Issues	5	3CI SEM TTh	12:00P-01:45P	Kresge Clrm 319	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21987	CLNI-80B-01	RI:Intl/Global Issues	5	3C2 SEM TTh	12:00P-01:45P	Soc Sci 1 153	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
21988	CLNI-80B-02	RI:Intl/Global Issues	5	3C2 SEM TTh	04:00P-05:45P	Soc Sci 1 153	Staff	R				
					Th	07:00P-09:00P	MultiPurpose					
		CLNI-199-XXX		Independent Study	5	IND		**To Be Arranged**			Staff	
		See sponsoring agency for class number										
		CLNI-199F-XXX		Independent Study	2	IND		**To Be Arranged**			Staff	
		See sponsoring agency for class number										

## College Ten

Students who have not satisfied the Entry Level Writing Requirement must enroll in course 80A by choosing a section from 01 to 11.

Students who have satisfied the Entry Level Writing Requirement must enroll by choosing a section from 12 to 18.

21989	CLTE-80A-01	UD:Social Justice	5	3CI SEM TTh	02:00P-03:45P	Hum & Soc Sci 350	Staff	R
					T	07:00P-09:00P	MultiPurpose	
21990	CLTE-80A-02	UD:Social Justice	5	3CI SEM TTh	10:00A-11:45A	Soc Sci 2 171	Staff	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21991		CLTE-80A-03		UD:Social Justice	5	3CI	SEM	TTh	12:00P-01:45P		07:00P-09:00P	MultiPurpose Staff	R
21992		CLTE-80A-04		UD:Social Justice	5	3CI	SEM	TTh	02:00P-03:45P		07:00P-09:00P	MultiPurpose Staff	R
21993		CLTE-80A-05		UD:Social Justice	5	3CI	SEM	TTh	04:00P-05:45P		07:00P-09:00P	MultiPurpose Staff	R
21994		CLTE-80A-06		UD:Social Justice	5	3CI	SEM	TTh	10:00A-11:45A		07:00P-09:00P	MultiPurpose Staff	R
21995		CLTE-80A-07		UD:Social Justice	5	3CI	SEM	TTh	12:00P-01:45P		07:00P-09:00P	MultiPurpose Staff	R
21996		CLTE-80A-08		UD:Social Justice	5	3CI	SEM	TTh	02:00P-03:45P		07:00P-09:00P	MultiPurpose Staff	R
21997		CLTE-80A-09		UD:Social Justice	5	3CI	SEM	TTh	04:00P-05:45P		07:00P-09:00P	MultiPurpose Staff	R
21998		CLTE-80A-10		UD:Social Justice	5	3CI	SEM	TTh	02:00P-03:45P		07:00P-09:00P	MultiPurpose Staff	R
22427		CLTE-80A-11		UD:Social Justice	5	3CI	SEM	TTh	10:00A-11:45A		07:00P-09:00P	MultiPurpose Staff	R
21999		CLTE-80A-12		UD:Social Justice	5	3CI	SEM	TTh	12:00P-01:45P		07:00P-09:00P	MultiPurpose Staff	R
22000		CLTE-80A-13		UD:Social Justice	5	3CI	SEM	TTh	02:00P-03:45P		07:00P-09:00P	MultiPurpose Staff	R
22517		CLTE-80A-14		UD:Social Justice	5	3CI	SEM	TTh	04:00P-05:45P		07:00P-09:00P	MultiPurpose Staff	R
23154		CLTE-80A-15		UD:Social Justice	5	3CI	SEM	TTh	10:00A-11:45A		07:00P-09:00P	MultiPurpose Staff	R
24246		CLTE-80A-16		UD:Social Justice	5	3CI	SEM	TTh	12:00P-01:45P		07:00P-09:00P	MultiPurpose Staff	R
24247		CLTE-80A-17		UD:Social Justice	5	3CI	SEM	TTh	02:00P-03:45P		07:00P-09:00P	MultiPurpose Staff	R
24670		CLTE-80A-18		UD:Social Justice	5	3CI	SEM	TTh	10:00A-11:45A		Cowell Acad 223	Staff	R
22001		CLTE-80B-01		Rl: Social Justice	5	3C2	SEM	TTh	04:00P-05:45P		07:00P-09:00P	MultiPurpose Staff	R
22002		CLTE-80B-02		Rl: Social Justice	5	3C2	SEM	TTh	10:00A-11:45A		07:00P-09:00P	MultiPurpose Staff	R
22449		CLTE-91-01		Intro Nuclear Policy	1		LEC	W	05:00P-06:45P		Soc Sci 2 179	Hirsch,D.O.	
24640		CLTE-110-01		ServiceLearning	5		FLD		**To Be Arranged**			Asher,A.	
24641		CLTE-110B-01		ServiceLearning	2		FLD		**To Be Arranged**			Asher,A.	
		CLTE-199-XXX		Independent Study	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CLTE-199F-XXX		Independent Study	2		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									

## Cowell College

All Cowell frosh must enroll in a section of Cowell 80A or 80B. To determine if you should enroll in Cowell 80A or 80B, please refer to the core course information mailed to you by the college.

10484		COWL-70A-01		Bookbinding	5	A	STU	MW	01:00P-04:00P		Cowell Press 123	Ritscher,P.	
				<i>Also offered as Art 70A; taught In conjunction with ART 111</i>									
21884		COWL-80A-01		UD: Imagining Justice	5	4CI	SEM	MWF	09:30A-10:40A		Cowell Acad 113	Stratton,C.S.	R
21885		COWL-80A-02		UD: Imagining Justice	5	4CI	SEM	MWF	11:00A-12:10P		Cowell Acad 113	Staff	R
21886		COWL-80A-03		UD: Imagining Justice	5	4CI	SEM	MWF	12:30P-01:40P		Cowell Acad 113	Staff	R
21887		COWL-80A-04		UD: Imagining Justice	5	4CI	SEM	MWF	02:00P-03:10P		Cowell Acad 113	Staff	R
21888		COWL-80A-05		UD: Imagining Justice	5	4CI	SEM	MWF	03:30P-04:40P		Cowell Acad 113	Staff	R
21889		COWL-80A-06		UD: Imagining Justice	5	4CI	SEM	MWF	09:30A-10:40A		Cowell Com 134	Staff	R
21890		COWL-80A-07		UD: Imagining Justice	5	4CI	SEM	MWF	11:00A-12:10P		Cowell Com 134	Staff	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21891		COWL-80A-08		UD: Imagining Justice	5	4C1	SEM	MWF	12:30P-01:40P		Cowell Com 134	Staff	R
21892		COWL-80A-09		UD: Imagining Justice	5	4C1	SEM	MWF	02:00P-03:10P		Cowell Com 134	Staff	R
21893		COWL-80A-10		UD: Imagining Justice	5	4C1	SEM	MWF	03:30P-04:40P		Cowell Com 134	Staff	R
22411		COWL-80A-11		UD: Imagining Justice	5	4C1	SEM	MWF	09:30A-10:40A		Cowell Acad 223	Staff	R
22412		COWL-80A-12		UD: Imagining Justice	5	4C1	SEM	MWF	11:00A-12:10P		Cowell Acad 223	Staff	R
23135		COWL-80A-13		UD: Imagining Justice	5	4C1	SEM	MWF	12:30P-01:40P		Cowell Acad 223	Staff	R
23136		COWL-80A-14		UD: Imagining Justice	5	4C1	SEM	MWF	02:00P-03:10P		Cowell Acad 223	Staff	R
23137		COWL-80A-15		UD: Imagining Justice	5	4C1	SEM	MWF	03:30P-04:40P		Cowell Acad 223	Staff	R
21894		COWL-80B-01		RI:Imagining Justice	5	4C2	SEM	MWF	09:30A-10:40A		Cowell Com 132	Staff	R
21895		COWL-80B-02		RI:Imagining Justice	5	4C2	SEM	MWF	09:30A-10:40A		Cowell Com 133	Staff	R
21896		COWL-80B-03		RI:Imagining Justice	5	4C2	SEM	MWF	11:00A-12:10P		Cowell Com 133	Staff	R
22072		COWL-80B-04		RI:Imagining Justice	5	4C2	SEM	MWF	12:30P-01:40P		Cowell Com 133	Staff	R
24229		COWL-80B-05		RI:Imagining Justice	5	4C2	SEM	MWF	02:00P-03:10P		Cowell Com 133	Staff	R
24230		COWL-80B-06		RI:Imagining Justice	5	4C2	SEM	MWF	03:30P-04:40P		Cowell Com 133	Staff	R
		COWL-93-XXX		Field Study	5		FLI		12:00A-12:00A			Staff	
		COWL-94-XXX		Group Tutorial	5		IND		12:00A-12:00A			Staff	
		COWL-94F-XXX		Group Tutorial	2		IND		12:00A-12:00A			Staff	
		COWL-99-XXX		Tutorial	5		IND		12:00A-12:00A			Staff	
		COWL-99F-XXX		Tutorial	2		IND		12:00A-12:00A			Staff	
22004	Y	COWL-184A-01		Leadership & Instit	2		LEC	M	05:00P-06:45P		Bay Tree Conf D	Staff	
		COWL-194-XXX		Group Tutorial	5		IND		12:00A-12:00A			Staff	
		COWL-195-XXX		Senior Thesis	5		IND		12:00A-12:00A			Staff	
		COWL-198-XXX		Indep Field Study	5		FLI		12:00A-12:00A			Staff	
		COWL-199-XXX		Tutorial	5		IND		12:00A-12:00A			Staff	
		COWL-199F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	

## Crown College

See the instructions in the advising packet mailed to you or on the Crown web site under [crown.ucsc.edu/academics/core08.enroll.php](http://crown.ucsc.edu/academics/core08.enroll.php).

Specific ELWR section designations will be announced at the special first lecture on Wednesday evening Sept. 24

21869		CRWN-80A-01		UD:Ethical Issues	5	4C1	SEM	MWF	12:30P-01:40P		Crown Clrm 201	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21870		CRWN-80A-02		UD:Ethical Issues	5	4C1	SEM	MWF	02:00P-03:10P		Crown Clrm 201	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21871		CRWN-80A-03		UD:Ethical Issues	5	4C1	SEM	MWF	11:00A-12:10P		Crown Clrm 201	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21872		CRWN-80A-04		UD:Ethical Issues	5	4C1	SEM	TTh	04:00P-05:45P		Crown Clrm 201	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21873		CRWN-80A-05		UD:Ethical Issues	5	4C1	SEM	TTh	02:00P-03:45P		Crown Clrm 201	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21874		CRWN-80A-06		UD:Ethical Issues	5	4C1	SEM	TTh	04:00P-05:45P		Crown Clrm 202	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21875		CRWN-80A-07		UD:Ethical Issues	5	4C1	SEM	MWF	09:30A-10:40A		Crown Clrm 201	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21876		CRWN-80A-08		UD:Ethical Issues	5	4C1	SEM	TTh	06:00P-07:45P		Crown Clrm 201	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21877		CRWN-80A-09		UD:Ethical Issues	5	4C1	SEM	TTh	06:00P-07:45P		Crown Clrm 202	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21878		CRWN-80A-10		UD:Ethical Issues	5	4C1	SEM	TTh	10:00A-11:45A		Crown Clrm 202	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21879		CRWN-80A-11		UD:Ethical Issues	5	4C1	SEM	TTh	10:00A-11:45A		Crown Clrm 203	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21880		CRWN-80A-12		UD:Ethical Issues	5	4C1	SEM	TTh	06:00P-07:45P		Crown Clrm 203	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
21881		CRWN-80A-13		UD:Ethical Issues	5	4C1	SEM	MWF	11:00A-12:10P		Crown Clrm 202	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	
22421		CRWN-80A-14		UD:Ethical Issues	5	4C1	SEM	TTh	02:00P-03:45P		Crown Clrm 202	Staff	R
								M	07:00P-08:45P		ClassroomUnit 002	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22422		CRWN-80A-15		UD:Ethical Issues	5	4C1 SEM	MWF		09:30A-10:40A		Crown Clrm 202	Staff	R
							M		07:00P-08:45P		ClassroomUnit 002	Staff	
22571		CRWN-80A-16		UD:Ethical Issues	5	4C1 SEM	TTh		12:00P-01:45P		Crown Clrm 202	Staff	R
							M		07:00P-08:45P		ClassroomUnit 002	Staff	
24277		CRWN-80A-17		UD:Ethical Issues	5	4C1 SEM	TTh		06:00P-07:45P		Cowell Acad 223	Staff	R
							M		07:00P-08:45P		ClassroomUnit 002	Staff	
24278		CRWN-80A-18		UD:Ethical Issues	5	4C1 SEM	MWF		02:00P-03:10P		Crown Clrm 202	Staff	R
							M		07:00P-08:45P		ClassroomUnit 002	Staff	
21882		CRWN-80B-01		RI:Ethical Issues	5	4C2 SEM	MWF		09:30A-10:40A		Crown Clrm 203	Staff	R
							M		07:00P-08:45P		ClassroomUnit 002	Staff	
21883		CRWN-80B-02		RI:Ethical Issues	5	4C2 SEM	TTh		04:00P-05:45P		Crown Clrm 203	Staff	R
							M		07:00P-08:45P		ClassroomUnit 002	Staff	
22425 Y		CRWN-185-01		PTP Internship	Prep2	LEC	Th		02:00P-03:45P		Bay Tree Conf	D Silverthorne,B.	

## Kresge College

All Kresge frosh are required to take KRSG 80A or 80B in the fall term. Please refer to the advising packet you received from the college for details on enrolling in the class. Enroll in lecture and associated discussion section. Discussion sections meet every other week.

23408		KRSG-12A-01		Service Learning	3	SEM	T		06:00P-07:45P		Kresge Clrm 319	Williams,F.E.	R
21925		KRSG-80A-01		UD:Power&Represent	5	5C1 SEM	TTh		10:00A-11:45A		Kresge Clrm 319	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23182		KRSG-80A-01A		Discussion		DIS	F		09:30A-10:40A		TBA	Staff	
21926		KRSG-80A-02		UD:Power&Represent	5	5C1 SEM	TTh		02:00P-03:45P		Kresge Clrm 319	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23184		KRSG-80A-02A		Discussion		DIS	F		11:00A-12:10P		TBA	Staff	
21927		KRSG-80A-03		UD:Power&Represent	5	5C1 SEM	TTh		10:00A-11:45A		Kresge Clrm 323	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23186		KRSG-80A-03A		Discussion		DIS	F		09:30A-10:40A		TBA	Staff	
21928		KRSG-80A-04		UD:Power&Represent	5	5C1 SEM	TTh		02:00P-03:45P		Kresge Clrm 323	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23188		KRSG-80A-04A		Discussion		DIS	F		02:00P-03:10P		TBA	Staff	
21929		KRSG-80A-05		UD:Power&Represent	5	5C1 SEM	TTh		02:00P-03:45P		Kresge Clrm 325	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23190		KRSG-80A-05A		Discussion		DIS	F		12:30P-01:40P		TBA	Staff	
21930		KRSG-80A-06		UD:Power&Represent	5	5C1 SEM	TTh		04:00P-05:45P		Kresge Clrm 325	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23192		KRSG-80A-06A		Discussion		DIS	F		12:30P-01:40P		TBA	Staff	
21931		KRSG-80A-07		UD:Power&Represent	5	5C1 SEM	TTh		04:00P-05:45P		Kresge Acad 194	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23194		KRSG-80A-07A		Discussion		DIS	F		12:30P-01:40P		TBA	Staff	
21932		KRSG-80A-08		UD:Power&Represent	5	5C1 SEM	TTh		10:00A-11:45A		Kresge Acad 194	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23196		KRSG-80A-08A		Discussion		DIS	F		02:00P-03:10P		TBA	Staff	
21933		KRSG-80A-09		UD:Power&Represent	5	5C1 SEM	TTh		02:00P-03:45P		Kresge Acad 194	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23198		KRSG-80A-09A		Discussion		DIS	F		11:00A-12:10P		TBA	Staff	
21934		KRSG-80A-10		UD:Power&Represent	5	5C1 SEM	TTh		10:00A-11:45A		Kresge Clrm 325	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23200		KRSG-80A-10A		Discussion		DIS	F		03:30P-04:40P		TBA	Staff	
23180		KRSG-80A-11		UD:Power&Represent	5	5C1 SEM	TTh		04:00P-05:45P		Kresge Clrm 323	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23202		KRSG-80A-11A		Discussion		DIS	F		09:30A-10:40A		TBA	Staff	
23262		KRSG-80A-12		UD:Power&Represent	5	5C1 SEM	TTh		10:00A-11:45A		Porter Acad 246	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
23263		KRSG-80A-12A		Discussion		DIS	F		11:00A-12:10P		TBA	Staff	
24288		KRSG-80A-13		UD:Power&Represent	5	5C1 SEM	TTh		02:00P-03:45P		Porter Acad 249	Staff	R
							T		07:00P-09:00P		Media Theater M110	Staff	
24289		KRSG-80A-13A		Discussion		DIS	F		02:00P-03:10P		TBA	Staff	
24291		KRSG-80A-14		UD:Power&Represent	5	5C1 SEM	TTh		04:00P-05:45P		Porter Acad 241	Staff	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24292	KRSG-80A-14A			Discussion				T	07:00P-09:00P		Media Theater M110	Staff	
21935	KRSG-80B-01			RI:Power&Representat	5	5C2	SEM	TTh	03:30P-04:40P		TBA	Staff	
23204	KRSG-80B-01A			Discussion				T	07:00P-09:00P		Media Theater M110	Staff	
21936	KRSG-80B-02			RI:Power&Representat	5	5C2	SEM	TTh	09:30A-10:40A		TBA	Staff	
23206	KRSG-80B-02A			Discussion				T	07:00P-09:00P		Media Theater M110	Staff	
22103	KRSG-80B-03			RI:Power&Representat	5	5C2	SEM	TTh	04:00P-05:45P		Kresge Rec 159	Staff	R
23208	KRSG-80B-03A			Discussion				T	07:00P-09:00P		Media Theater M110	Staff	
22567	KRSG-80B-04			RI:Power&Representat	5	5C2	SEM	TTh	10:00A-11:45A		Kresge Rec 159	Staff	R
23210	KRSG-80B-04A			Discussion				T	07:00P-09:00P		Media Theater M110	Staff	
16715	KRSG-80T-01			Power&Representation	5	5W	SEM	TTh	11:00A-12:10P		TBA	Staff	
								T	07:00P-09:00P		Media Theater M110	Staff	R
	KRSG-99-XXX			Tutorial	5		IND		**To Be Arranged**			Staff	
	See sponsoring agency for class number												
	KRSG-192-XXX			Dir Stu Teach	5		IND		**To Be Arranged**			Staff	
	See sponsoring agency for class number												
	KRSG-193-XXX			Field Study	5		FLI		**To Be Arranged**			Staff	
	See sponsoring agency for class number												
	KRSG-194-XXX			Group Tutorial	5		IND		**To Be Arranged**			Staff	
	See sponsoring agency for class number												
	KRSG-195-XXX			Senior Thesis	5		IND		**To Be Arranged**			Staff	
	See sponsoring agency for class number												
	KRSG-198-XXX			Indep Field Study	5		FLI		**To Be Arranged**			Staff	
	See sponsoring agency for class number												
	KRSG-199-XXX			Tutorial	5		IND		**To Be Arranged**			Staff	
	See sponsoring agency for class number												

## Merrill College

All Merrill frosh are required to take MERR 80A or 80B, the Merrill College Core Course.

Please refer to your advising packet and the web site <http://www2.ucsc.edu/merrill/academics> for details on enrolling in the course.

21859	MERR-80A-01			UD: Cultural IDs	5	3C1E	SEM	MWF	09:30A-10:40A		Merrill Acad 134	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
21860	MERR-80A-02			UD: Cultural IDs	5	3C1E	SEM	MWF	09:30A-10:40A		Merrill Acad 132	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
21861	MERR-80A-03			UD: Cultural IDs	5	3C1E	SEM	MWF	11:00A-12:10P		Merrill Acad 134	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
21862	MERR-80A-04			UD: Cultural IDs	5	3C1E	SEM	MWF	11:00A-12:10P		Merrill Acad 132	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
21863	MERR-80A-05			UD: Cultural IDs	5	3C1E	SEM	MWF	12:30P-01:40P		Merrill Acad 132	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
21864	MERR-80A-06			UD: Cultural IDs	5	3C1E	SEM	MWF	02:00P-03:10P		Merrill Acad 003	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
21865	MERR-80A-07			UD: Cultural IDs	5	3C1E	SEM	TTh	08:00A-09:45A		Merrill Acad 132	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
21866	MERR-80A-08			UD: Cultural IDs	5	3C1E	SEM	TTh	10:00A-11:45A		Merrill Acad 132	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
21867	MERR-80A-09			UD: Cultural IDs	5	3C1E	SEM	TTh	02:00P-03:45P		Merrill Acad 002	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
22521	MERR-80A-10			UD: Cultural IDs	5	3C1E	SEM	MWF	09:30A-10:40A		Merrill Acad 002	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
22522	MERR-80A-11			UD: Cultural IDs	5	3C1E	SEM	MWF	11:00A-12:10P		Merrill Acad 130	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002	Staff	
22526	MERR-80A-12			UD: Cultural IDs	5	3C1E	SEM	MWF	11:00A-12:10P		Merrill Acad 002	Staff	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24324	MERR-80A-13	UD: Cultural IDs	5	3C1E SEM	W	07:00P-09:30P	ClassroomUnit 002	Staff					
													R
24637	MERR-80A-14	UD: Cultural IDs	5	3C1E SEM	W	07:00P-09:30P	ClassroomUnit 002	Staff					
													R
24638	MERR-80A-15	UD: Cultural IDs	5	3C1E SEM	TTh	10:00A-11:45A	Merrill Acad 002	Staff					
													R
21868	MERR-80B-01	Ri:Cultural IDs&Glob	5	3C2E SEM	MWF	09:30A-10:40A	Merrill Acad 003	Staff					
													R
22089	MERR-80B-02	Ri:Cultural IDs&Glob	5	3C2E SEM	MWF	11:00A-12:10P	Merrill Acad 003	Staff					
													R
22434	MERR-80B-03	Ri:Cultural IDs&Glob	5	3C2E SEM	MWF	12:30P-01:40P	Merrill Acad 130	Staff					
													R
24639	MERR-80B-04	Ri:Cultural IDs&Glob	5	3C2E SEM	TTh	12:00P-01:45P	Merrill Acad 002	Staff					
													R
22430	MERR-80L-01	Merrill Visual Lab	2	LAB		**To Be Arranged**		Gerster,C.J.					
23150	Y MERR-80X-01	UD:Cultrl IDs&GC	5	3C1E SEM	MWF	09:30A-10:40A	Merrill Acad 130	Staff					
21169	Y MERR-85B-01	Classrm Connection	3	FLD	T	07:00P-08:30P	Crown Clrm 208	Martinez-Echazabal,L.					
		<i>See Enrollment Conditions for instructions</i>											
23153	Y MERR-85C-01	Classrm Connection	2	FLD	T	07:00P-08:30P	Crown Clrm 208	Martinez-Echazabal,L.					

## Oakes College

All Oakes frosh are required to take Oakes 80A or 80B. Please refer to the advising packet from your college for details on enrolling in the class

18562	Y OAKS-10-01	Academic Success	2	SEM	TTh	04:00P-05:45P	Oakes Acad 102	Aguirre,T.A.					
21967	OAKS-80A-01	UD: Values & Change	5	5C1E SEM	TTh	08:00A-09:45A	Oakes Acad 101	King,R.Y.					R
21968	OAKS-80A-02	UD: Values & Change	5	5C1E SEM	TTh	10:00A-11:45A	Oakes Acad 101	King,R.Y.					R
21969	OAKS-80A-03	UD: Values & Change	5	5C1E SEM	TTh	10:00A-11:45A	Oakes Acad 103	Baker,M.					R
21970	OAKS-80A-04	UD: Values & Change	5	5C1E SEM	TTh	12:00P-01:45P	Oakes Acad 103	Baker,M.					R
21971	OAKS-80A-05	UD: Values & Change	5	5C1E SEM	TTh	12:00P-01:45P	Oakes Acad 101	Lopez,L.T.					R
21972	OAKS-80A-06	UD: Values & Change	5	5C1E SEM	TTh	02:00P-03:45P	Oakes Acad 101	Lopez,L.T.					R
21973	OAKS-80A-07	UD: Values & Change	5	5C1E SEM	MWF	09:30A-10:40A	Oakes Acad 103	Pizzuti,G.B.					R
21974	OAKS-80A-08	UD: Values & Change	5	5C1E SEM	MWF	11:00A-12:10P	Oakes Acad 101	Moody,I.B.					R
21975	OAKS-80A-09	UD: Values & Change	5	5C1E SEM	MWF	12:30P-01:40P	Oakes Acad 101	Moody,I.B.					R
21976	OAKS-80A-10	UD: Values & Change	5	5C1E SEM	TTh	10:00A-11:45A	Oakes Acad 102	Knisely,L.E.					R
22418	OAKS-80A-11	UD: Values & Change	5	5C1E SEM	TTh	12:00P-01:45P	Oakes Acad 106	Lau,K.J.					R
22419	OAKS-80A-12	UD: Values & Change	5	5C1E SEM	TTh	02:00P-03:45P	Oakes Acad 102	Nava,S.					R
22420	OAKS-80A-13	UD: Values & Change	5	5C1E SEM	MWF	11:00A-12:10P	Oakes Acad 103	Pizzuti,G.B.					R
23175	OAKS-80A-14	UD: Values & Change	5	5C1E SEM	MWF	09:30A-10:40A	Oakes Acad 102	Simonton,K.R.					R
23213	OAKS-80A-15	UD: Values & Change	5	5C1E SEM	MWF	11:00A-12:10P	Oakes Acad 102	Simonton,K.R.					R
24451	OAKS-80A-16	UD: Values & Change	5	5C1E SEM	MWF	12:30P-01:40P	Oakes Acad 222	Staff					R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24452	OAKS-80A-17	UD: Values & Change	5	5C1E SEM	MWF	02:00P-03:10P	Oakes Acad 222	Staff	R				
					W	07:00P-10:00P	Media Theater M110	Staff					
24453	OAKS-80A-18	UD: Values & Change	5	5C1E SEM	TTh	10:00A-11:45A	Oakes Acad 222	Staff	R				
					W	07:00P-10:00P	Media Theater M110	Staff					
21977	OAKS-80B-01	RI: Values and Change	5	5C2E SEM	TTh	12:00P-01:45P	Oakes Acad 102	Knisely,L.E.	R				
					W	07:00P-10:00P	Media Theater M110	Staff					
	OAKS-93-XXX	Field Study	5	FLI		**To Be Arranged**		Staff					
	<i>See sponsoring agency for class number</i>												
	OAKS-99F-XXX	Independent Study	2	IND		**To Be Arranged**		Staff					
	<i>See sponsoring agency for class number</i>												
	OAKS-193-XXX	Field Study	5	FLI		**To Be Arranged**		Staff					
	<i>See sponsoring agency for class number</i>												
	OAKS-199F-XXX	Independent Study	2	IND		**To Be Arranged**		Staff					
	<i>See sponsoring agency for class number</i>												

## Porter College

All Porter frosh are required to take Porter 80A or 80B. Please refer to the advising packet from your college for details on enrolling in the class

19539	PORT-1A-01	Elementary Portuguese	5	LEC	MWF	12:30P-01:40P	J Baskin Engr 165	Seara,A.M.					
19540	PORT-60A-01	Beg-Intr Portuguese	5	LEC	MWF	02:00P-03:10P	J Baskin Engr 165	Seara,A.M.	R				
19541	PORT-65B-01	Intermed Portuguese	5	H LEC	MWF	03:30P-04:40P	J Baskin Engr 165	Seara,A.M.	R				
21951	PRTR-80A-01	UD: Writing/Arts	5	4C1 SEM	MWF	11:00A-12:10P	Porter Acad 222	Arnett,J.M.	R				
					M	08:00P-10:00P	Porter Din 001						
21952	PRTR-80A-02	UD: Writing/Arts	5	4C1 SEM	MWF	09:30A-10:40A	Porter Acad 241	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21953	PRTR-80A-03	UD: Writing/Arts	5	4C1 SEM	MWF	09:30A-10:40A	Porter Acad 250	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21954	PRTR-80A-04	UD: Writing/Arts	5	4C1 SEM	MWF	11:00A-12:10P	Porter Acad 249	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21955	PRTR-80A-05	UD: Writing/Arts	5	4C1 SEM	MWF	09:30A-10:40A	Porter Acad 246	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21956	PRTR-80A-06	UD: Writing/Arts	5	4C1 SEM	MWF	11:00A-12:10P	Porter Acad 241	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21957	PRTR-80A-07	UD: Writing/Arts	5	4C1 SEM	MWF	02:00P-03:10P	Porter Acad 246	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21958	PRTR-80A-08	UD: Writing/Arts	5	4C1 SEM	MWF	12:30P-01:40P	Porter Acad 249	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
24327	PRTR-80A-09	UD: Writing/Arts	5	4C1 SEM	MWF	11:00A-12:10P	Porter Din 002	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
24328	PRTR-80A-10	UD: Writing/Arts	5	4C1 SEM	MWF	09:30A-10:40A	Porter Din 002	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
24531	PRTR-80A-11	UD: Writing/Arts	5	4C1 SEM	MWF	03:30P-04:40P	Porter Acad 241	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21960	PRTR-80B-01	RI: Writing Across Arts	5	4C2 SEM	MWF	02:00P-03:10P	Porter Acad 249	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21961	PRTR-80B-02	RI: Writing Across Arts	5	4C2 SEM	MWF	11:00A-12:10P	Porter Acad 250	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
21962	PRTR-80B-03	RI: Writing Across Arts	5	4C2 SEM	MWF	03:30P-04:40P	Porter Acad 249	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
23257	PRTR-80B-04	RI: Writing Across Arts	5	4C2 SEM	MWF	12:30P-01:40P	Porter Acad 241	Staff	R				
					M	08:00P-10:00P	Porter Din 001	Staff					
22063	PRTR-80L-01	Document Oral Hist	5	5A SEM	MWF	09:30A-10:40A	TA Offices J102	Beal,T.					
24624	PRTR-80W-01	Writing Across Arts	5	4W SEM	MWF	09:30A-10:40A	Porter Acad 249	Staff	R				
21657	PRTR-83-01	Pac Rim Film Fest	2	A SEM	T	04:00P-06:00P	Porter Acad 246	Foley,M.K.					
24326	PRTR-121D-01	Sundanese Gamelan	2	A STU	Th	02:00P-03:00P	Gamelan Stu 230B	Sumarna,U.					
19552	Y PRTR-180-01	Pedagogical Practic	5	SEM	T	04:00P-05:45P	Porter Din 002	Giges,R.E.					
	PRTR-194-XXX	Group Tutorial	5	IND		**To Be Arranged**		Staff					

*See sponsoring agency for class number*

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
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## Stevenson College

All Stevenson frosh are required to take Stevenson 80A or 80B. Please refer to the advising packet from your college for details on enrolling in the class.

21937	STEV-80A-01	UD:Self & Society	5	5CI SEM	MWF	09:30A-10:40A	07:00P-09:00P	Steven Acad 151	Staff	R
21938	STEV-80A-02	UD:Self & Society	5	5CI SEM	MWF	12:30P-01:40P	07:00P-09:00P	Steven Acad 151	Staff	R
21939	STEV-80A-03	UD:Self & Society	5	5CI SEM	MWF	09:30A-10:40A	07:00P-09:00P	Steven Acad 152	Staff	R
21940	STEV-80A-04	UD:Self & Society	5	5CI SEM	MWF	12:30P-01:40P	07:00P-09:00P	Steven Acad 152	Staff	R
21941	STEV-80A-05	UD:Self & Society	5	5CI SEM	MWF	09:30A-10:40A	07:00P-09:00P	Soc Sci I 149	Staff	R
21942	STEV-80A-06	UD:Self & Society	5	5CI SEM	MWF	12:30P-01:40P	07:00P-08:00P	Cowell Acad 222	Staff	R
21943	STEV-80A-07	UD:Self & Society	5	5CI SEM	TTh	10:00A-11:45A	07:00P-09:00P	Steven Acad 151	Staff	R
21944	STEV-80A-08	UD:Self & Society	5	5CI SEM	TTh	12:00P-01:45P	07:00P-09:00P	Steven Acad 151	Staff	R
21945	STEV-80A-09	UD:Self & Society	5	5CI SEM	TTh	02:00P-03:45P	07:00P-09:00P	Steven Acad 151	Staff	R
21946	STEV-80A-10	UD:Self & Society	5	5CI SEM	TTh	04:00P-05:45P	07:00P-09:00P	Steven Acad 151	Staff	R
21947	STEV-80A-11	UD:Self & Society	5	5CI SEM	TTh	10:00A-11:45A	07:00P-09:00P	Steven Acad 152	Staff	R
22423	STEV-80A-12	UD:Self & Society	5	5CI SEM	TTh	12:00P-01:45P	07:00P-09:00P	Steven Acad 152	Staff	R
22424	STEV-80A-13	UD:Self & Society	5	5CI SEM	TTh	02:00P-03:45P	07:00P-09:00P	Steven Acad 152	Staff	R
22591	STEV-80A-14	UD:Self & Society	5	5CI SEM	TTh	04:00P-05:45P	07:00P-09:00P	Steven Acad 152	Staff	R
23173	STEV-80A-15	UD:Self & Society	5	5CI SEM	TTh	10:00A-11:45A	07:00P-09:00P	Steven Fire 177	Staff	R
24329	STEV-80A-16	UD:Self & Society	5	5CI SEM	TTh	12:00P-01:45P	07:00P-09:00P	Kresge Clrm 325	Staff	R
24330	STEV-80A-17	UD:Self & Society	5	5CI SEM	TTh	02:00P-03:45P	07:00P-09:00P	Oakes Acad 222	Staff	R
24331	STEV-80A-18	UD:Self & Society	5	5CI SEM	TTh	04:00P-05:45P	07:00P-09:00P	Oakes Acad 222	Staff	R
24642	STEV-80A-19	UD:Self & Society	5	5CI SEM	TTh	02:00P-03:45P	07:00P-09:00P	Crown Clrm 203	Staff	R
24643	STEV-80A-20	UD:Self & Society	5	5CI SEM	TTh	02:00P-03:45P	07:00P-09:00P	Thimann Lab 101	Staff	R
24644	STEV-80A-21	UD:Self & Society	5	5CI SEM	MWF	02:00P-03:10P	07:00P-09:00P	Soc Sci I 153	Staff	R
21948	STEV-80B-01	Rl:Self & Society	5	5C2 SEM	TTh	10:00A-11:45A	07:00P-09:00P	Hum & Soc Sci 350	Staff	R
21949	STEV-80B-02	Rl:Self & Society	5	5C2 SEM	TTh	12:00P-01:45P	07:00P-09:00P	Steven Fire 177	Staff	R
21950	STEV-80B-03	Rl:Self & Society	5	5C2 SEM	TTh	02:00P-03:45P	07:00P-09:00P	Merrill Acad 130	Staff	R
24343	STEV-80B-04	Rl:Self & Society	5	5C2 SEM	MWF	02:00P-03:10P	07:00P-09:00P	Steven Acad 151	Staff	R
24645	STEV-80B-05	Rl:Self & Society	5	5C2 SEM	MWF	02:00P-03:10P	07:00P-09:00P	Steven Fire 177	Staff	R
22566	STEV-80H-01	Rainbow Theater	5	4E SEM		**To Be Arranged**			Staff	
	STEV-194-XXX	Group Tutorial	5	IND		**To Be Arranged**			Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
				See sponsoring agency for class number									
		STEV-194F-XXX		Group Tutorial	2	IND			**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		STEV-199-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		STEV-199F-XXX		Tutorial	2	IND			**To Be Arranged**			Staff	
				See sponsoring agency for class number									

## American Studies

24535		AMST-10-01		Intro Amer Studies	5	HE	LEC	MWF	11:00A-12:10P		Earth&Marine B206	Staff	
24594		AMST-10-01A		Discussion			DIS	M	03:30P-04:40P		Crown Clrm 202	Staff	
24595		AMST-10-01B		Discussion			DIS	M	05:00P-06:10P		Cowell Acad 223	Staff	
24596		AMST-10-01C		Discussion			DIS	T	08:30A-09:40A		Cowell Acad 223	Staff	
24597		AMST-10-01D		Discussion			DIS	W	08:00A-09:10A		Cowell Acad 223	Staff	
24598		AMST-10-01E		Discussion			DIS	W	03:30P-04:40P		Crown Clrm 202	Staff	
24599		AMST-10-01F		Discussion			DIS	W	05:00P-06:10P		Oakes Acad 103	Staff	
24600		AMST-10-01G		Discussion			DIS	W	06:30P-07:40P		Oakes Acad 103	Staff	
24601		AMST-10-01H		Discussion			DIS	Th	06:00P-07:10P		Oakes Acad 103	Staff	
24602		AMST-10-01I		Discussion			DIS	Th	07:30P-08:40P		Oakes Acad 103	Staff	
24603		AMST-10-01J		Discussion			DIS	F	02:00P-03:10P		Oakes Acad 103	Staff	
23697		AMST-80E-01		US Racial/EthncHist	5	5E	LEC	TTh	04:00P-05:45P		Steven Acad 175	Lonetree,A.J.	
23698		AMST-80E-01A		Discussion			DIS	T	12:00P-01:10P		Cowell Acad 216	Staff	
23699		AMST-80E-01B		Discussion			DIS	W	12:30P-01:40P		Cowell Acad 216	Staff	
23700		AMST-80E-01C		Discussion			DIS	W	05:00P-06:10P		Cowell Acad 223	Staff	
23701		AMST-80E-01D		Discussion			DIS	Th	08:30A-09:40A		Cowell Acad 223	Staff	
24626		AMST-80F-01		US Popular Cultures	5	5	LEC	TTh	10:00A-11:45A		Music Center 101	Staff	
		AMST-93-XXX		Field Study	5		FLI		**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		AMST-99-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				See sponsoring agency for class number									
24663		AMST-113A-01		Imagining America	5		LEC	MWF	09:30A-10:40A		Oakes Acad 106	Staff	
23702		AMST-114B-01		Marx & Amer Culture	5	W	SEM	MW	05:00P-06:45P		Oakes Acad 106	Staff	R
23407		AMST-123M-01		Am Ind Hist On Film	5	E	LEC	TTh	02:00P-03:45P		Oakes Acad 106	Lonetree,A.J.	
23703		AMST-190L-01		Culture & Politics	5		SEM	T	04:00P-07:00P		Hum & Soc Sci 350	Lau,K.J.	R
		AMST-192-XXX		Dir Stu Teach	5		IND		**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		AMST-193-XXX		Field Study	5		FLI		**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		AMST-194-XXX		Group Tutorial	5		IND		**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		AMST-195A-XXX		Senior Project	5		IND		**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		AMST-195B-XXX		Senior Project	5		IND		**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		AMST-198-XXX		Indep Field Study	5		FLI		**To Be Arranged**			Staff	
				See sponsoring agency for class number									
		AMST-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				See sponsoring agency for class number									

## Anthropology

10213		ANTH-1-01		Intr Humn Evolution	5	N	LEC	TTh	10:00A-11:45A		Earth&Marine B206	Milligan,L.	
				Enroll in lecture and associated discussion section									
10214		ANTH-1-01A		Discussion			DIS	T	12:00P-01:10P		Soc Sci I 317	Staff	
10215		ANTH-1-01B		Discussion			DIS	T	02:00P-03:10P		Soc Sci I 317	Staff	
10216		ANTH-1-01C		Discussion			DIS	T	04:00P-05:10P		Soc Sci I 317	Staff	
10217		ANTH-1-01D		Discussion			DIS	T	06:00P-07:10P		Soc Sci I 317	Staff	
10218		ANTH-1-01E		Discussion			DIS	W	08:00A-09:10A		Soc Sci I 317	Staff	
10219		ANTH-1-01F		Discussion			DIS	W	09:30A-10:40A		Soc Sci I 317	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
10220		ANTH-1-01G		Discussion		DIS	W		11:00A-12:10P		Soc Sci I 317	Staff	
10221		ANTH-1-01H		Discussion		DIS	W		02:00P-03:10P		Soc Sci I 317	Staff	
10222		ANTH-1-01I		Discussion		DIS	W		03:30P-04:40P		Soc Sci I 317	Staff	
10223		ANTH-1-01J		Discussion		DIS	W		05:00P-06:10P		Soc Sci I 317	Staff	
10224		ANTH-1-01K		Discussion		DIS	W		06:30P-07:40P		Soc Sci I 317	Staff	
10225		ANTH-1-01L		Discussion		DIS	Th		12:00P-01:10P		Soc Sci I 317	Staff	
10226		ANTH-1-01M		Discussion		DIS	Th		02:00P-03:10P		Soc Sci I 317	Staff	
10227		ANTH-1-01N		Discussion		DIS	Th		04:00P-05:10P		Soc Sci I 317	Staff	
10228		ANTH-1-01O		Discussion		DIS	Th		06:00P-07:10P		Soc Sci I 317	Staff	
10229		ANTH-1-01P		Discussion		DIS	F		09:30A-10:40A		Soc Sci I 317	Staff	
10230		ANTH-1-01Q		Discussion		DIS	F		11:00A-12:10P		Soc Sci I 317	Staff	
10231		ANTH-1-01R		Discussion		DIS	F		12:30P-01:40P		Soc Sci I 317	Staff	
24536		ANTH-80H-01		Acoustic Culture	5	3	LEC	TTh	02:00P-03:45P		Soc Sci I 110	Brenneis,D.L.	
				<i>Enroll in lecture and associated discussion section</i>									
24537		ANTH-80H-01A		Discussion		DIS	M		11:00A-12:10P		Soc Sci I 153	Staff	
24538		ANTH-80H-01B		Discussion		DIS	Th		06:00P-07:410P		Soc Sci I 153	Staff	
24539		ANTH-80H-01C		Discussion		DIS	Th		07:30P-08:40P		Soc Sci I 153	Staff	
23704		ANTH-80P-01		India Diaspora Film	5	3E	LEC	TTh	10:00A-11:45A		N. Sci Annex 101	Pandey,A.D.	
				<i>Enroll in lecture and associated discussion section</i>									
23705		ANTH-80P-01A		Discussion		DIS	M		12:30P-01:40P		Soc Sci I 153	Staff	
23706		ANTH-80P-01B		Discussion		DIS	Th		08:30A-09:40A		Soc Sci I 149	Staff	
23707		ANTH-80P-01C		Discussion		DIS	F		09:30A-10:40A		Soc Sci I 153	Staff	
22005		ANTH-81A-01		Mexican Folk Dance	2	A	STU	M	07:00P-10:00P		E Fieldhouse	Najera Ramirez,O.	
				<i>Also offered as LALS 81A</i>									
							F		06:00P-08:00P		E Fieldhouse		
							Su		04:00P-07:00P		E Fieldhouse		
22234		ANTH-106-01		Primate Behavior	5		LEC	TTh	12:00P-01:45P		Soc Sci I 110	Vogel,E.R.	R
				<i>Taught in conjunction with ANTH 206</i>									
23708		ANTH-110-01		Anth of Movement	5		LEC	MW	12:30P-04:40P		Soc Sci I 461	Zihlman,A.L.	R
23740		ANTH-126-01		Sexuality & Society	5		LEC	TTh	10:00A-11:45A		Soc Sci 2 075	Shaw,C.M.	R
				<i>Enroll in lecture and associated discussion section</i>									
23741		ANTH-126-01A		Discussion		DIS	T		12:00P-01:10P		Soc Sci 2 137	Staff	
23742		ANTH-126-01B		Discussion		DIS	W		08:00A-09:10A		Soc Sci 2 137	Staff	
23743		ANTH-126-01C		Discussion		DIS	W		09:30A-10:40A		Soc Sci 2 137	Staff	
23744		ANTH-126-01D		Discussion		DIS	Th		06:00P-07:10P		Soc Sci 2 137	Staff	
23745		ANTH-126-01E		Discussion		DIS	Th		07:30P-08:40P		Soc Sci 2 137	Staff	
23746		ANTH-130M-01		Inside Mexico	5	E	LEC	MWF	11:00A-12:10P		Soc Sci 2 179	Mathews,A.S.	
23747		ANTH-130N-01		Native Peoples N Am	5	E	LEC	MW	05:00P-06:45P		PhysSciences 114	Pandey,T.N.	
				<i>Enroll in lecture and associated discussion section</i>									
23748		ANTH-130N-01A		Discussion		DIS	M		12:30P-01:40P		Soc Sci I 149	Staff	
23749		ANTH-130N-01B		Discussion		DIS	W		08:00A-09:10A		Crown Clrm 203	Staff	
23750		ANTH-130N-01C		Discussion		DIS	F		11:00A-12:10P		Soc Sci I 153	Staff	
23751		ANTH-130X-01		Top In Ethnography	5		LEC	MWF	03:30P-04:40P		Engineer 2 192	Staff	
23754		ANTH-134-01		Intro Medical Anthro	5		LEC	MWF	11:00A-12:10P		Soc Sci I 110	Chen,N.N.	
				<i>Enroll in lecture and associated discussion section</i>									
23755		ANTH-134-01A		Discussion		DIS	W		05:00P-06:10P		Soc Sci I 149	Staff	
23756		ANTH-134-01B		Discussion		DIS	Th		08:30A-09:40A		Crown Clrm 202	Staff	
23757		ANTH-134-01C		Discussion		DIS	F		12:30P-01:40P		Soc Sci I 153	Staff	
23758		ANTH-139-01		Language & Culture	5		LEC	TTh	12:00P-01:45P		Soc Sci 2 179	Brenneis,D.L.	R
24462		ANTH-145X-01		Socio-Cultural Anth	5		LEC	MWF	02:00P-03:10P		Soc Sci 2 179	Cabot,H.	
10237		ANTH-170-01		His Archaeol Theory	5	W	LEC	TTh	08:00A-09:45A		Soc Sci I 145	Gifford-Gonzalez,D.	R
				<i>Taught in conjunction with ANTH 270</i>									
23759		ANTH-174-01		Origins Complex Soc	5		LEC	TTh	04:00P-05:45P		Soc Sci 2 179	Staff	R
23760		ANTH-184-01		Zooarchaeology	5		LEC	TTh	02:00P-03:45P		Crown Clrm 208	Gifford-Gonzalez,D.	R
				<i>Enroll in lecture and associated discussion section</i>									
23761		ANTH-184-01A		Discussion		DIS	T		04:15P-05:25P		Soc Sci I 451	Staff	
23762		ANTH-184-01B		Discussion		DIS	Th		10:30A-11:20A		Soc Sci I 451	Staff	
23763		ANTH-184-01C		Discussion		DIS	W		06:00P-07:10P		Soc Sci I 451	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22660		ANTH-194K-01		Reading Ethnograph	5	W	SEM	Th	05:00P-08:00P		Hum & Soc Sci 350	Harding,S.F.	R
23764		ANTH-194N-01		Comparison Cultures	5	W	SEM	T	04:00P-07:00P		Merrill Acad 132	Pandey,T.N.	R
				<i>Taught in conjunction with ANTH 294N</i>									
22662		ANTH-200A-01		Core Graduate Course	10		SEM	MW	12:00P-03:00P		Soc Sci I 414	Harding,S.F. Rofel,L.B.	R
10381		ANTH-228-01		Grant Writing	5		SEM	T	06:00P-09:00P		Soc Sci 2 137	Shaw,C.M.	R
22235		ANTH-270-01		His Archaeol Theory	5		LEC	TTh	08:00A-09:45A		Soc Sci I 145	Gifford-Gonzalez,D. Monroe,J.C.	R
				<i>Taught in conjunction with ANTH 170</i>									
10382		ANTH-292-01		Graduate Colloquim	2		SEM	M	03:30P-05:00P		Soc Sci I 261	Rofel,L.B.	R
23765		ANTH-294N-01		Comparison of Cultr	5		SEM	T	04:00P-07:00P		Merrill Acad 132	Pandey,T.N.	R
				<i>Taught in conjunction with ANTH 194N</i>									

### Applied Mathematics and Statistics

21171		AMS-3-01		Precalculus	5	Q	LEC	MW	05:00P-06:45P		Kresge Clrm 321	Staff	R
				<i>Enroll in lecture and associated discussion section</i>									
21172		AMS-3-01A		Discussion			DIS	M	12:30P-01:40P		N. Sci Annex 103	Staff	
21173		AMS-3-01B		Discussion			DIS	T	08:00P-09:10P		Eight Acad 250	Staff	
21174		AMS-3-01C		Discussion			DIS	W	02:00P-03:10P		Kresge Clrm 327	Staff	
21175		AMS-5-01		Statistics	5	NQ	LEC	TTh	02:00P-03:45P		J Bask Aud 101	Lee,H.K.	
				<i>Enroll in lecture and associated discussion section</i>									
21176		AMS-5-01A		Discussion			DIS	M	09:30A-10:40A		Engineer 2 194	Staff	
21177		AMS-5-01B		Discussion			DIS	W	08:00A-09:10A		PhysSciences 136	Staff	
21178		AMS-5-01C		Discussion			DIS	W	12:30P-01:40P		N. Sci Annex 103	Staff	
21179		AMS-5-01D		Discussion			DIS	Th	06:00P-07:10P		Engineer 2 194	Staff	
21180		AMS-5-01E		Discussion			DIS	Th	07:30P-08:40P		Engineer 2 194	Staff	
22632		AMS-5-01F		Discussion			DIS	F	03:30P-04:40P		Porter Acad 144	Staff	
22225		AMS-7-01		StatMthdsBio/Env/Hlth	5	NQ	LEC	TTh	10:00A-11:45A		J Bask Aud 101	Draper,D.	R
				<i>Enroll in lecture and associated discussion section; concurrent enrollment in AMS 7L is required</i>									
22226		AMS-7-01A		Discussion			DIS	M	08:00A-09:10A		PhysSciences 136	Staff	
22227		AMS-7-01B		Discussion			DIS	M	09:30A-10:40A		PhysSciences 136	Staff	
22228		AMS-7-01C		Discussion			DIS	T	04:00P-05:10P		PhysSciences 136	Staff	
22229		AMS-7-01D		Discussion			DIS	W	12:30P-01:40P		Oakes Acad 106	Staff	
22230		AMS-7-01E		Discussion			DIS	W	03:30P-04:40P		Eight Acad 250	Staff	
23692		AMS-7-01F		Discussion			DIS	F	08:00A-09:10A		J Baskin Engr 165	Staff	
23693		AMS-7-01G		Discussion			DIS	F	12:30P-01:40P		N. Sci Annex 103	Staff	
22457		AMS-7L-01		StatMthdsBioEnvHlthLab2			LAB	M	09:30A-11:30A		Soc Sci I 135	Draper,D.	R
				<i>Concurrent enrollment in AMS 7 is required</i>									
22458		AMS-7L-02		StatMthdsBioEnvHlthLab2			LAB	M	05:00P-07:00P		Soc Sci I 135	Draper,D.	R
				<i>Concurrent enrollment in AMS 7 is required</i>									
22459		AMS-7L-03		StatMthdsBioEnvHlthLab2			LAB	T	01:00P-03:00P		Soc Sci I 135	Draper,D.	R
				<i>Concurrent enrollment in AMS 7 is required</i>									
22460		AMS-7L-04		StatMthdsBioEnvHlthLab2			LAB	W	12:00P-02:00P		Soc Sci I 135	Draper,D.	R
				<i>Concurrent enrollment in AMS 7 is required</i>									
23152		AMS-7L-05		StatMthdsBioEnvHlthLab2			LAB	Th	04:00P-06:00P		Soc Sci I 135	Draper,D.	R
				<i>Concurrent enrollment in AMS 7 is required</i>									
23694		AMS-7L-06		StatMthdsBioEnvHlthLab2			LAB	F	10:00A-12:00P		Soc Sci I 135	Draper,D.	R
				<i>Concurrent enrollment in AMS 7 is required</i>									
24702		AMS-10-01		Math Methods I	5	Q	LEC	TTh	06:00P-07:45P		Thim Lecture 001	Staff	R
				<i>Enroll in lecture and associated secondary lab</i>									
24704		AMS-10-01A		Secondary Lab			LBS	T	09:00A-11:00A		Soc Sci I 135	Staff	
24705		AMS-10-01B		Secondary Lab			LBS	W	10:00A-12:00P		Soc Sci I 135	Staff	
24706		AMS-10-01C		Secondary Lab			LBS	Th	09:30A-11:30A		Soc Sci I 135	Staff	
24703		AMS-10A-01		Basic Math Methods I	3		LEC	TTh	06:00P-07:45P		Thim Lecture 001	Staff	R
				<i>Enroll in lecture and associated secondary lab</i>									
24707		AMS-10A-01A		Secondary Lab			LBS		**To Be Arranged**			Staff	
21161		AMS-11A-01		Math Methd for Econ	5	NQ	LEC	MWF	03:30P-04:40P		J Baskin Engr 152	Katznelson,J.R.	R
				<i>Also offered as ECON 11A</i>									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21162		AMS-11A-01A		Discussion		DIS	T		08:00P-09:10P		J Baskin Engr 165	Staff	
21163		AMS-11A-01B		Discussion		DIS	Th		08:30A-09:40A		J Baskin Engr 372	Staff	
21164		AMS-11A-01C		Discussion		DIS	T		06:00P-07:10P		J Baskin Engr 372	Staff	
21165		AMS-11A-01D		Discussion		DIS	W		08:00A-09:10A		J Baskin Engr 372	Staff	
21835		AMS-11A-01E		Discussion		DIS	W		11:00A-12:10P		J Baskin Engr 372	Staff	
21836		AMS-11A-01F		Discussion		DIS	W		12:30P-01:30P		J Baskin Engr 372	Staff	
21846		AMS-11B-01		Math Methd for Econ	5	NQ	LEC	MWF	12:30P-01:40P		ClassroomUnit 001	Katznelson,J.R.	R
<i>Also offered as ECON 11B</i>													
21847		AMS-11B-01A		Discussion		DIS	T		08:30A-09:40A		J Baskin Engr 372	Staff	
21848		AMS-11B-01B		Discussion		DIS	Th		08:00P-09:10P		J Baskin Engr 165	Staff	
21849		AMS-11B-01C		Discussion		DIS	W		08:00A-09:10A		J Baskin Engr 165	Staff	
21850		AMS-11B-01D		Discussion		DIS	W		05:00P-06:10P		J Baskin Engr 165	Staff	
21851		AMS-11B-01E		Discussion		DIS	W		07:00P-08:10P		J Baskin Engr 165	Staff	
21852		AMS-11B-01F		Discussion		DIS	Th		06:00P-07:10P		J Baskin Engr 372	Staff	
23147		AMS-132-01		Stat Inference	5		LEC	TTh	12:00P-01:45P		Porter Acad 250	Rodriguez,A.	R
24590		AMS-205A-01		Mathematical Stats	5		LEC	TTh	10:00A-11:45A		Engineer 2 194	Rodriguez,A.	R
24591		AMS-205B-01		Stat Inference	5		LEC	TTh	10:00A-11:45A		Soc Sci I 161	Sanso,B.	R
23090		AMS-211-01		Fnds Applied Math	5		LEC	TTh	12:00P-01:45P		Porter Acad 246	Brummell,N.H.	R
23696		AMS-221-01		Decision Theory	5		LEC	TTh	02:00P-03:45P		J Baskin Engr 169	Sanso,B.	R
23548		AMS-280A-01		Math/ComputrBiology	2		SEM	Th	04:00P-05:45P		J Baskin Engr 330	Mangel,M.S.	R
22061	Y	AMS-280B-01		Stat&AppliedMathModel	2		SEM	M	04:00P-06:00P		Engineer 2 180	Draper,D.	
<b>Art</b>													
10477		ART-20-01		Intr Draw for Major	5	A	STU	TThSa	01:00P-03:45P		Baskin Paint E101	Rangell,P.	R
10478		ART-20-02		Intr Draw for Major	5	A	STU	TThSa	04:00P-06:45P		Baskin Paint E101	Rangell,P.	R
22236		ART-21-01		Intro Computer Art	5	A	STU	TTh	02:00P-04:45P		Porter Acad 240	Staff	R
21160		ART-22-01		Intro Elect Intrmed	5	A	STU	TThSa	09:00A-11:45A		Baskin Paint E102	Staff	R
22663		ART-23-01		Intermedia I	5	A	STU	TThSa	02:00P-04:45P		Baskin Plast H101	Staff	R
10479		ART-24A-01		Intr Painting, Oil	5	A	STU	MWF	05:30P-08:15P		Baskin Paint 2 L101	Gwyn,M.	R
10480		ART-26-01		Intr To Printmaking	5	A	STU	TThSa	09:00A-11:45A		Baskin Print G101	Rangell,P.	R
10481		ART-30-01		Intr to Photography	5	A	STU	MWF	09:00A-11:45A		Baskin Photo I200	Friedman,S.	R
10482		ART-30-02		Intr to Photography	5	A	STU	TThSa	02:00P-04:45P		Baskin Photo I200	Alley,K.J.	R
21915		ART-39-01		Public Art I	5	A	STU	MWF	09:00A-11:45A		Baskin Clay A101	Hibbert-Jones,W.D.	R
10483		ART-60-01		Forms and Ideas	5	A	STU	MWF	01:00P-03:45P		Baskin Plast H101	Perry,K.C.	R
21151		ART-70A-01		Bookbinding	5	A	STU	MW	01:00P-04:00P		Cowell Press 123	Ritscher,P.	
<i>Also offered as COWL 70A; taught in conjunction with Art 111</i>													
22667		ART-80A-01		Intro to Drawing	5	4A	LEC	T	02:00P-03:45P		Thim Lecture 001	Wohlfeiler,R.A.	
<i>Enroll in lecture and associated secondary studio</i>													
22669		ART-80A-01A		Secondary Studio			STS	TTh	10:00A-12:00P		TA Studio C101	Staff	
22670		ART-80A-01B		Secondary Studio			STS	WF	11:00A-01:00P		TA Studio C101	Staff	
22671		ART-80A-01C		Secondary Studio			STS	WF	02:00P-04:00P		TA Studio C101	Staff	
10485		ART-80C-01		Intro Visual Arts	5	4A	LEC	TTh	06:00P-07:45P		Thim Lecture 003	Murray,D.C.	
<i>Enroll in lecture and associated discussion section</i>													
10486		ART-80C-01A		Discussion			DIS	M	06:00P-07:10P		Steven Acad 151	Staff	
10487		ART-80C-01B		Discussion			DIS	M	07:30P-08:40P		Steven Acad 151	Staff	
10488		ART-80C-01C		Discussion			DIS	T	08:30A-09:40A		Steven Acad 151	Staff	
10489		ART-80C-01D		Discussion			DIS	T	08:00P-09:10P		Porter Acad 249	Staff	
10490		ART-80C-01E		Discussion			DIS	W	05:00P-06:10P		Steven Acad 151	Staff	
10491		ART-80C-01F		Discussion			DIS	W	07:30P-08:40P		Steven Acad 151	Staff	
21787		ART-80C-01G		Discussion			DIS	Th	08:30A-09:40A		Steven Acad 151	Staff	
21788		ART-80C-01H		Discussion			DIS	Th	08:00P-09:10P		Porter Acad 249	Staff	
22237		ART-80C-01I		Discussion			DIS	F	02:00P-03:10P		Soc Sci I 145	Staff	
22238		ART-80C-01J		Discussion			DIS	F	03:30P-04:40P		Soc Sci I 145	Staff	
21386		ART-80D-01		Intro Photography	5	4A	LEC	MW	05:00P-06:45P		J Baskin Engr 152	Perry,K.C.	
<i>Enroll in lecture and associated secondary studio</i>													
21649		ART-80D-01A		Secondary Studio			STS	M	12:15P-01:45P		Baskin Photo I200	Staff	
21650		ART-80D-01B		Secondary Studio			STS	M	07:00P-08:30P		Baskin Photo I200	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21651		ART-80D-01C		Secondary Studio		STS	T		12:15P-01:45P		Baskin Photo I200	Staff	
21652		ART-80D-01D		Secondary Studio		STS	T		05:00P-06:30P		Baskin Photo I200	Staff	
21653		ART-80D-01E		Secondary Studio		STS	W		12:15P-01:45P		Baskin Photo I200	Staff	
21654		ART-80D-01F		Secondary Studio		STS	Th		05:00P-06:30P		Baskin Photo I200	Staff	
		ART-99-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
10498		ART-101-01		Intermed/Adv Drawng	5	STU	MWF		01:00P-03:45P		Baskin Paint E101	Hannah,H.L.	R
22681		ART-102-01		Figure Drawing	5	A	STU	TThSa	09:00A-11:45A		Baskin Paint E101	Hitchcock,M.C.	R
10499		ART-103-01		Interm/Adv Painting	5	STU	TThSa		02:00P-04:45P		Baskin Visul J101	Hitchcock,M.C.	R
				<i>Course will be using only water based media including acrylic and gouache.</i>									
22682		ART-103-02		Interm/Adv Painting	5	STU	MWF		02:00P-04:45P		Baskin Paint 2 L101	Gwyn,M.	R
23780		ART-109-01		InterMedia II	5	A	STU	MWF	05:30P-08:15P		Baskin Sculp 2 P108	Crichton,E.G.	R
10500		ART-111-01		Book Arts II	5	STU	MW		01:00P-04:00P		Cowell Press 123	Ritscher,P.	
				<i>Taught in conjunction with ART 70A and COWL 70A.</i>									
10501		ART-112-01		Intaglio I	5	A	STU	MWF	02:00P-04:45P		Baskin Print G101	Wohlfeiler,R.A.	R
23781		ART-123-01		Digital Printmaking	5	A	STU	MWF	09:00A-11:45A		Baskin Print G101	Wohlfeiler,R.A.	R
22685		ART-126-01		Art of Bookmaking	5	A	STU	MWF	02:00P-04:45P		Baskin Draw F101	Alexander,J.	R
23148	Y	ART-127A-01		Visiting Artist: A	5	SEM	TThSa		09:00A-11:45A		Baskin Paint 3 M101	Staff	R
				<i>See Enrollment Conditions for instructions</i>									
23149	Y	ART-127B-01		Visiting Artist: B	5	STU	TThSa		02:00P-04:45P		Baskin Paint 3 M101	Staff	R
				<i>See Enrollment Conditions for instructions</i>									
10502		ART-130-01		Interm Photography	5	STU	MWF		02:00P-04:45P		Baskin Photo I200	Friedman,S.	R
10503		ART-132-01		Color Photography	5	STU	TThSa		09:00A-11:45A		Baskin Photo I200	Locks,N.	R
23782		ART-134-01		Spec Topics Photogr	5	STU	MWF		02:00P-04:45P		Baskin Sculp 2 P108	Crichton,E.G.	R
10504		ART-135-01		Intro Digital Photo	5	A	STU	TTh	09:00A-11:45A		Porter Acad 240	Alley,K.J.	R
23783		ART-141-01		Sculpture II	5	A	STU	MWF	02:00P-04:45P		Baskin Clay A101	Hibbert-Jones,W.D.	R
23218		ART-150C-01		Collab & Intractvty	5	W	SEM	TTh	12:00P-01:45P		Crown Clrm 203	Murray,D.C.	R
		ART-198-XXX		Indep Field Study	5	FLI			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		ART-199-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									

## Astronomy and Astrophysics

10565		ASTR-2-01		Overview Universe	5	NQ	LEC	MWF	09:30A-10:40A		Humn Lecture 206	Guha Thakurta,P.	
10566		ASTR-2-01A		Discussion			DIS	M	02:00P-03:10P		PhysSciences 130	Staff	
10567		ASTR-2-01B		Discussion			DIS	T	06:00P-07:10P		PhysSciences 130	Staff	
10568		ASTR-2-01C		Discussion			DIS	T	07:30P-08:40P		PhysSciences 130	Staff	
10569		ASTR-2-01D		Discussion			DIS	Th	08:30A-09:40A		PhysSciences 130	Staff	
10570		ASTR-2-01E		Discussion			DIS	Th	10:00A-11:10A		PhysSciences 130	Staff	
22183		ASTR-2-01F		Discussion			DIS	F	12:30P-01:40P		PhysSciences 130	Staff	
10571		ASTR-2-02		Overview Universe	5	NQ	LEC	MWF	11:00A-12:10P		Steven Acad 150	Dalle Ore,C.	
10572		ASTR-2-02A		Discussion			DIS	T	02:00P-03:10P		Earth&Marine B210	Staff	
10573		ASTR-2-02B		Discussion			DIS	W	02:00P-03:10P		PhysSciences 130	Staff	
22240		ASTR-2-02C		Discussion			DIS	F	08:00A-09:10A		PhysSciences 130	Staff	
23784		ASTR-4-01		The Stars	5	NQ	LEC	TTh	10:00A-11:45A		ClassroomUnit 001	Steinacker,A.	
23785		ASTR-4-01A		Discussion			DIS	W	05:30P-06:00P		PhysSciences 140	Staff	
23786		ASTR-4-01B		Discussion			DIS	W	06:30P-07:00P		PhysSciences 140	Staff	
23787		ASTR-4-01C		Discussion			DIS	T	06:00P-07:00P		Earth&Marine B214	Staff	
22244		ASTR-16-01		Astrobio/Life/Universe	5	NQ	LEC	MWF	11:00A-12:10P		Earth&Marine B214	Steinacker,A.	
22245		ASTR-16-01A		Discussion			DIS		**To Be Arranged**			Staff	
24708	Y	ASTR-70-01		Honors/AstrophysRes			LEC	T/Th	04:00P-05:30P		Ctr. Adap. Optics 217	Faber, S.M. Smith, G.H.	
24461		ASTR-117-01		Hi Energy Astrophys	5		LEC	TTh	02:00P-03:45P		Earth&Marine B214	Ramirez-Ruiz,E.J.	R
21167		ASTR-135A-01		Astrophys Adv Lab	3		LAB	Th	02:00P-03:45P		Nat Sci 2 110	Dewey,R.J.	R
				<i>Enroll in lab and associated secondary lab; also offered as PHYS 135A</i>									
23789		ASTR-135A-01A		Secondary Lab			LBS		**To Be Arranged**			Staff	
22269		ASTR-171-01		Genl Relativity	5		LEC	MW	10:00A-11:45A		ISB 235	Dine,M.	R
				<i>Also offered as PHYS 171</i>									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
10609		ASTR-205-01		Intr Astro Research	5	LEC	MWF		02:00P-03:10P		TBA	Epps,H.W.	R
23791		ASTR-214-01		Formatn In Universe	5	LEC	TTh		10:00A-11:45A		TBA	Madau,P.	R
23792		ASTR-220A-01		Stel Struct & Evol	5	LEC	MWF		09:30A-10:40A		ISB 356	Fortney,J.J.	R
23793		ASTR-230-01		Low Density Astro	5	LEC	TTh		02:00P-03:45P		TBA	Prochaska,J.X.	
10610		ASTR-292-01		Seminar	0	SEM	W		03:30P-05:30P		N. Sci Annex 101	Staff	

### Biochemistry

10761		BIOC-100A-01		Biochemistry	5	LEC	TTh		04:00P-05:45P		J Baskin Engr 152	Noller,H.F.	R
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*Enroll in lecture and associated discussion section*

### Biology: Ecology and Evolutionary Biology

10765		BIOE-20B-01		Developmt & Physiol	5	LEC	TTh		04:00P-05:45P		Humn Lecture 206	Goff,L.J.	R
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*Enroll in lecture and associated discussion section*

10766		BIOE-20B-01A		Discussion		DIS	M		09:30A-10:40A		Earth&Marine B214	Staff	
10767		BIOE-20B-01B		Discussion		DIS	T		08:30A-09:40A		Earth&Marine B210	Staff	
10768		BIOE-20B-01C		Discussion		DIS	T		12:00P-01:10P		N. Sci Annex 102	Staff	
10769		BIOE-20B-01D		Discussion		DIS	W		08:00A-09:10A		Earth&Marine B210	Staff	
10770		BIOE-20B-01E		Discussion		DIS	W		05:00P-06:10P		N. Sci Annex 102	Staff	
10771		BIOE-20B-01F		Discussion		DIS	W		06:30P-07:40P		N. Sci Annex 102	Staff	
10772		BIOE-20B-01G		Discussion		DIS	Th		08:30A-09:40A		N. Sci Annex 102	Staff	
10773		BIOE-20B-01H		Discussion		DIS	F		03:30P-04:40P		N. Sci Annex 103	Staff	
10774		BIOE-20C-01		Ecology & Evolution	5	LEC	MWF		08:00A-09:10A		Earth&Marine B206	Fox,L.R.	

*Enroll in lecture and associated discussion section*

10775		BIOE-20C-01A		Discussion		DIS	T		04:00P-05:10P		N. Sci Annex 102	Staff	
10776		BIOE-20C-01B		Discussion		DIS	W		02:00P-03:10P		Earth&Marine B214	Staff	
10777		BIOE-20C-01C		Discussion		DIS	W		03:30P-04:40P		Earth&Marine B214	Staff	
22246		BIOE-20C-01D		Discussion		DIS	Th		08:30A-09:40A		N. Sci Annex 103	Staff	
10778		BIOE-20C-01E		Discussion		DIS	Th		06:00P-07:10P		N. Sci Annex 102	Staff	
10779		BIOE-20C-01F		Discussion		DIS	F		09:30A-10:40A		Earth&Marine B214	Staff	
22826	Y	BIOE-75-01		Sci Diving Cert	2	FLD			**To Be Arranged**		Ocean Health 118	Clabuesch,S.R.	
10858		BIOE-109-01		Evolution	5	LEC	MWF		02:00P-03:10P		Earth&Marine B206	Pogson,G.	R

*Enroll in lecture and associated discussion section*

22451		BIOE-109-01A		Discussion		DIS	M		05:00P-06:10P		N. Sci Annex 103	Staff	
22452		BIOE-109-01B		Discussion		DIS	M		06:30P-07:40P		N. Sci Annex 103	Staff	
22453		BIOE-109-01C		Discussion		DIS	T		08:30A-09:40A		N. Sci Annex 102	Staff	
22454		BIOE-109-01D		Discussion		DIS	T		06:00P-07:10P		N. Sci Annex 102	Staff	
22455		BIOE-109-01E		Discussion		DIS	T		07:30P-08:40P		N. Sci Annex 102	Staff	
22456		BIOE-109-01F		Discussion		DIS	W		08:00A-09:10A		Earth&Marine B214	Staff	
24150		BIOE-109-01G		Discussion		DIS	W		11:00A-12:10P		N. Sci Annex 102	Staff	
24151		BIOE-109-01H		Discussion		DIS	F		03:30P-04:40P		N. Sci Annex 102	Staff	
10853		BIOE-140-01		Behavioral Ecology	5	LEC	MWF		09:30A-10:40A		ClassroomUnit 001	Sinervo,B.R.	R

*Enroll in lecture and associated discussion section*

10854		BIOE-140-01A		Discussion		DIS	M		05:00P-06:10P		N. Sci Annex 102	Staff	
10855		BIOE-140-01B		Discussion		DIS	M		06:30P-07:40P		N. Sci Annex 102	Staff	
10856		BIOE-140-01C		Discussion		DIS	W		02:00P-03:10P		N. Sci Annex 102	Staff	
10857		BIOE-140-01D		Discussion		DIS	W		03:30P-04:40P		N. Sci Annex 102	Staff	
21122		BIOE-145-01		Plant Ecology	5	LEC	TTh		10:00A-11:45A		Earth&Marine B214	Parker,I.M.	R

*Taught in conjunction with BIOE 245*

22265		BIOE-145L-01		Plant Ecology Field	5	W	LAB	TTh	01:30P-05:30P		Thimann Lab 203	Parker,I.M.	R
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*Concurrent enrollment in BIOE 145 is required; taught in conjunction with BIOE 245L*

24143	Y	BIOE-159A-01		Fld Qtr:Marine Ecol	5	FLD	MWF		08:00A-12:00P		Lg Discovery 128A	Bernardi,G. Raimondi,P.T.	
24144	Y	BIOE-159B-01		Fld Qtr:Ichthyology	5	FLD	MWF		01:00P-05:00P		Lg Discovery 128A	Bernardi,G. Raimondi,P.T.	
24145	Y	BIOE-159C-01		Fld Qtr:Field Ecolo	5	FLD	TTh		08:00A-12:00P		Lg Discovery 128A	Bernardi,G. Raimondi,P.T.	
24146	Y	BIOE-159D-01		Fld Qtr:Fld Eco Lab	4	FLD	TTh		01:00P-05:00P		Lg Discovery 128A	Bernardi,G. Raimondi,P.T.	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21121		BIOE-165-01		Marine Conserv Bio	5	LEC	TTh		12:00P-01:45P		Ocean Health 118	Croll,D.A.	R
		<i>Enroll in lecture and associated discussion section</i>											
23259		BIOE-165-01A		Discussion		DIS			**To Be Arranged**			Staff	
24147		BIOE-165-01B		Discussion		DIS			**To Be Arranged**			Staff	
22869	Y	BIOE-183F-01		Undergrad Res: EEB	2	SEM	W		05:00P-06:45P			Lyon,B.E.	R
		<i>Taught in conjunction with BIOE 183L</i>											
22266	Y	BIOE-183L-01		Undergrad Res: EEB	5	W	LAB	W	05:00P-06:45P			Lyon,B.E.	R
		<i>Taught in conjunction with BIOE 183F</i>											
22068		BIOE-200A-01		Scientific Skills	5	SEM			**To Be Arranged**			Carr,M.H.	R
22882		BIOE-200B-01		Adv Organismal Bio	5	SEM			**To Be Arranged**			Costa,D.	R
22267		BIOE-245-01		Plant Ecology	5	LEC	TTh		10:00A-11:45A		Earth&Marine B214	Parker,I.M.	R
		<i>Taught in conjunction with BIOE 145</i>											
22868		BIOE-245L-01		Field Methods Lab	5	LAB	TTh		01:30P-05:30P		Thimann Lab 203	Parker,I.M.	R
		<i>Taught in conjunction with BIOE 145L</i>											
22482		BIOE-281A-01		Appld Marine Ecolog	5	SEM	F		12:30P-01:40P			Carr,M.H.	R
22483		BIOE-281B-01		Molecular Evolution	2	SEM	F		12:30P-01:40P		TBA	Bernardi,G.	R
22484		BIOE-281C-01		Physiological Ecol	5	SEM	F		12:30P-01:40P		TBA	Costa,D.	R
22888		BIOE-281F-01		Ecological Res Topi	5	SEM	F		12:30P-01:40P		Earth&Marine D336	Fox,L.R.	R
22485		BIOE-281J-01		Biochemical Ecology	5	SEM	F		12:30P-01:40P			Langenheim,J.H.	R
22486		BIOE-281L-01		Behavrl & Evol Ecol	5	SEM	F		12:30P-01:40P		Earth&Marine D318	Lyon,B.E.	R
24175	Y	BIOE-281M-01		Freshwater Ecology	2	SEM	F		12:30P-01:40P		TBA	Moore,J.W.	R
22487		BIOE-281N-01		Marine Vert Ecology	5	SEM	F		12:30P-01:40P		TBA	Croll,D.A.	R
22502		BIOE-281P-01		Plant Population	5	SEM	F		12:30P-01:40P		TBA	Parker,I.M.	R
22488		BIOE-281Q-01		Molec Evolution Gen	5	SEM	F		12:30P-01:40P		Earth&Marine D410	Pogson,G.	R
22489		BIOE-281R-01		Mari Eco&Evol Biol	5	SEM	F		12:30P-01:40P		TBA	Raimondi,P.T.	R
22490		BIOE-281T-01		Species Interactions	5	SEM	F		12:30P-01:40P		TBA	Thompson,J.N.	R
22890		BIOE-281U-01		Invertebrate Biol	5	SEM	F		12:30P-01:40P		Earth&Marine D480	Potts,D.C.	R
22491		BIOE-281V-01		Behavioral Ecology	5	SEM	F		12:30P-01:40P		Earth&Marine D450	Sinervo,B.R.	R
22492		BIOE-281W-01		Exercise/Env Phys	5	SEM	F		12:30P-01:40P		TBA	Williams,T.M.	R
11931		BIOE-294-01		Ecol, Evol Bio Sem	0	SEM	W		12:30P-01:40P		N. Sci Annex 101	Staff	R
22268		BIOE-295-01		Adv EEB Seminar	0	SEM			**To Be Arranged**			Kay,K.M.	R

### Biology: Molecular, Cell, and Developmental Biology

10764	Y	BIOL-15-01		Research Reports	1	SEM			**To Be Arranged**		Sinsheimer Lb 123	Bowman,B.J.	
		<i>See Enrollment Conditions for instructions</i>											
22819		BIOL-20A-01		Cell & Molecular Bi	5	N	LEC	MWF	09:30A-10:40A		Media Theater M110	Bowman,B.J.	R
		<i>Enroll in lecture and associated discussion section</i>											
22820		BIOL-20A-01A		Discussion		DIS	M		03:30P-04:40P		N. Sci Annex 103	Staff	
22821		BIOL-20A-01B		Discussion		DIS	T		08:30A-09:40A		N. Sci Annex 103	Staff	
22822		BIOL-20A-01C		Discussion		DIS	T		12:00P-01:10P		N. Sci Annex 103	Staff	
22823		BIOL-20A-01D		Discussion		DIS	W		05:00P-06:10P		N. Sci Annex 103	Staff	
22824		BIOL-20A-01E		Discussion		DIS	W		06:30P-07:40P		N. Sci Annex 103	Staff	
22825		BIOL-20A-01F		Discussion		DIS	Th		06:00P-07:10P		N. Sci Annex 103	Staff	
24124		BIOL-20A-01G		Discussion		DIS	Th		07:30P-08:40P		N. Sci Annex 103	Staff	
24125		BIOL-20A-01H		Discussion		DIS	F		02:00P-03:10P		N. Sci Annex 102	Staff	
10780		BIOL-20L-01		Experimental Lab	2	LAB	T		01:00P-05:00P		Thimann Lab 223	Lee,J.C.	R
		<i>Students must attend first lab meeting on Thursday, September 27.</i>											
22247		BIOL-20L-02		Experimental Lab	2	LAB	Th		01:00P-05:00P		Thimann Lab 223	Ogren,L.M.	R
							M		12:30P-01:40P		Thimann Lab 223		
10790		BIOL-80A-01		Female Physiology	5	2	LEC	TTh	04:00P-05:45P		Earth&Marine B206	Zavanelli,M.I.	
		<i>Enroll in lecture and associated discussion section</i>											
10791		BIOL-80A-01A		Discussion		DIS	M		08:00A-09:10A		N. Sci Annex 103	Staff	
10792		BIOL-80A-01B		Discussion		DIS	T		06:00P-07:10P		N. Sci Annex 103	Staff	
10793		BIOL-80A-01C		Discussion		DIS	T		07:30P-08:40P		N. Sci Annex 103	Staff	
10794		BIOL-80A-01D		Discussion		DIS	W		08:00A-09:10A		N. Sci Annex 103	Staff	
10795		BIOL-80A-01E		Discussion		DIS	W		09:30A-10:40A		N. Sci Annex 103	Staff	
10796		BIOL-80A-01F		Discussion		DIS	Th		02:00P-03:10P		N. Sci Annex 103	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21109		BIOL-80A-01G		Discussion		DIS	Th		07:30P-08:40P		N. Sci Annex 102	Staff	
24129		BIOL-80A-01H		Discussion		DIS	F		09:30A-10:40A		N. Sci Annex 103	Staff	
22047		BIOL-80H-01		The Human Genome	5	2	LEC	TTh	08:00A-09:45A		J Baskin Engr 152	Staff	
<i>Also offered as BME 80H</i>													
22472		BIOL-89-01		ClinicalHealthCare	5	S	LEC	TTh	08:00A-09:45A		Media Theater M110	Steiner,A.	
22537		BIOL-89-01A		Discussion		DIS	M		09:30A-10:40A		N. Sci Annex 103	Staff	
22538		BIOL-89-01B		Discussion		DIS	T		02:00P-03:10P		N. Sci Annex 103	Staff	
22539		BIOL-89-01C		Discussion		DIS	T		04:00P-05:10P		N. Sci Annex 103	Staff	
22827		BIOL-89-01D		Discussion		DIS	W		03:30P-04:40P		N. Sci Annex 103	Staff	
22828		BIOL-89-01E		Discussion		DIS	Th		12:00P-01:10P		N. Sci Annex 102	Staff	
22829		BIOL-89-01F		Discussion		DIS	F		11:00A-12:10P		N. Sci Annex 102	Staff	
10833		BIOL-100-01		Biochemistry	5		LEC	MWF	11:00A-12:10P		J Baskin Engr 152	Ludwig,R.A.	R
<i>Enroll in lecture and associated discussion section</i>													
10834		BIOL-100-01A		Discussion		DIS	M		03:30P-04:40P		Earth&Marine B214	Staff	
10835		BIOL-100-01B		Discussion		DIS	T		02:00P-03:10P		PhysSciences 140	Staff	
10836		BIOL-100-01C		Discussion		DIS	Th		12:00P-01:10P		N. Sci Annex 103	Staff	
10837		BIOL-100-01D		Discussion		DIS	F		08:00A-09:10A		N. Sci Annex 103	Staff	
22249		BIOL-100L-01		Biochemistry Lab	5		LAB		**To Be Arranged**			Dalbey,M.S.	R
22250		BIOL-100L-02		Biochemistry Lab	5		LAB		**To Be Arranged**			Dalbey,M.S.	R
10838		BIOL-105-01		Genetics	5		LEC	TTh	08:00A-09:45A		Humn Lecture 206	Kamakaka,R.T.	R
<i>Enroll in lecture and associated discussion section</i>													
10839		BIOL-105-01A		Discussion		DIS	M		02:00P-03:10P		N. Sci Annex 102	Staff	
10840		BIOL-105-01B		Discussion		DIS	T		02:00P-03:10P		Engineer 2 192	Staff	
10841		BIOL-105-01C		Discussion		DIS	W		03:30P-04:40P		J Baskin Engr 372	Staff	
10842		BIOL-105-01D		Discussion		DIS	W		07:00P-08:10P		Porter Acad 144	Staff	
10843		BIOL-105-01E		Discussion		DIS	Th		04:00P-05:10P		Earth&Marine B210	Staff	
10844		BIOL-105-01F		Discussion		DIS	Th		06:00P-07:10P		Earth&Marine B214	Staff	
21114		BIOL-105-01G		Discussion		DIS	Th		07:30P-08:40P		Earth&Marine B214	Staff	
22251		BIOL-105-01H		Discussion		DIS	F		08:00A-09:10A		PhysSciences 136	Staff	
22840		BIOL-105L-01		Eukaryotc Genet Lab	5		LAB		**To Be Arranged**			Staff	R
22841		BIOL-105L-02		Eukaryotc Genet Lab	5		LAB	MW	10:00A-01:00P		Thimann Lab 203	Staff	R
24130		BIOL-109L-01		Yst Molclr Genetics	5		LAB	MW	02:00P-05:00P		Thimann Lab 203	Kamakaka,R.T.	R
10845		BIOL-110-01		Cell Biology	5		LEC	TTh	02:00P-03:45P		ClassroomUnit 002	Hinck,L.	R
22252		BIOL-110-01A		Discussion		DIS	M		02:00P-03:10P		Earth&Marine B214	Staff	
10846		BIOL-110-01B		Discussion		DIS	M		03:30P-04:40P		N. Sci Annex 102	Staff	
10847		BIOL-110-01C		Discussion		DIS	T		07:30P-08:40P		PhysSciences 140	Staff	
10848		BIOL-110-01D		Discussion		DIS	W		09:30A-10:40A		Earth&Marine B214	Staff	
21115		BIOL-110-01E		Discussion		DIS	W		03:30P-04:40P		Earth&Marine B210	Staff	
22253		BIOL-110-01F		Discussion		DIS	Th		08:30A-09:40A		PhysSciences 140	Staff	
24131		BIOL-110-01G		Discussion		DIS	Th		04:00P-05:10P		N. Sci Annex 103	Staff	
24132		BIOL-110-01H		Discussion		DIS	Th		07:30P-08:40P		PhysSciences 140	Staff	
24133		BIOL-110-01I		Discussion		DIS	F		02:00P-03:10P		Earth&Marine B210	Staff	
24134		BIOL-110-01J		Discussion		DIS	F		03:30P-04:40P		Earth&Marine B210	Staff	
21789		BIOL-119-01		Microbiology	5		LEC	MWF	11:00A-12:10P		Oakes Acad 105	Saltikov,C.W.	R
<i>Enroll in lecture and associated discussion section</i>													
21790		BIOL-119-01A		Discussion		DIS	M		08:00A-09:10A		Earth&Marine B210	Staff	
22256		BIOL-119-01B		Discussion		DIS	T		02:00P-03:10P		Engineer 2 194	Staff	
21791		BIOL-119-01C		Discussion		DIS	T		04:00P-05:10P		Earth&Marine B210	Staff	
21792		BIOL-119-01D		Discussion		DIS	Th		06:00P-07:10P		PhysSciences 130	Staff	
22854		BIOL-119-01E		Discussion		DIS	Th		07:30P-08:40P		PhysSciences 130	Staff	
22855		BIOL-119-01F		Discussion		DIS	F		03:30P-04:40P		J Baskin Engr 372	Staff	
22025		BIOL-119L-01		Gen Microbio Lab	5		LAB	TTh	09:00A-12:00P		Thimann Lab 229	Jimenez,E.M.	R
22258		BIOL-119L-02		Gen Microbio Lab	5		LAB	MW	01:00P-04:00P		Thimann Lab 229	Dalbey,M.S.	R
10850		BIOL-125-01		Intro to Neurosci	5		LEC	TTh	04:00P-05:45P		ClassroomUnit 001	Chen,B.	R
21118		BIOL-125-01A		Discussion		DIS	M		08:00A-09:10A		Earth&Marine B214	Staff	
10851		BIOL-125-01B		Discussion		DIS	M		03:30P-04:40P		J Baskin Engr 372	Staff	
10852		BIOL-125-01C		Discussion		DIS	Th		08:30A-09:40A		Earth&Marine B210	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21119		BIOL-125-01D		Discussion		DIS	Th		02:00P-03:10P		Engineer 2 194	Staff	
22856		BIOL-125-01E		Discussion		DIS	F		08:00A-09:10A		Earth&Marine B214	Staff	
22857		BIOL-125-01F		Discussion		DIS	F		03:30P-04:40P		Kresge Acad 194	Staff	
22259		BIOL-130-01		Human Physiology	5	LEC	MWF		03:30P-04:40P		Thim Lecture 001	Ogren,L.M.	R
22260		BIOL-130-01A		Discussion		DIS			**To Be Arranged**			Staff	
22261		BIOL-130-01B		Discussion		DIS			**To Be Arranged**			Staff	
22262		BIOL-130L-01		Human Physiolgy Lab	2	LAB	M		09:00A-12:00P		Thimann Lab 239	Ogren,L.M.	R
<i>Concurrent enrollment in BIOL 130 is required; students must attend first lecture meeting on Friday, September 28.</i>													
22263		BIOL-130L-02		Human Physiolgy Lab	2	LAB	T		09:00A-12:00P		Thimann Lab 239	Ogren,L.M.	R
<i>Concurrent enrollment in BIOL 130 is required; students must attend first lecture meeting on Friday, September 28.</i>													
22264		BIOL-130L-03		Human Physiolgy Lab	2	LAB	T		01:00P-04:00P		Thimann Lab 239	Ogren,L.M.	R
<i>Concurrent enrollment in BIOL 130 is required; students must attend first lecture meeting on Friday, September 28.</i>													
22858		BIOL-130L-04		Human Physiolgy Lab	2	LAB	W		09:00A-12:00P		Thimann Lab 239	Ogren,L.M.	R
<i>Concurrent enrollment in BIOL 130 is required; students must attend first lecture meeting on Friday, September 28.</i>													
21793	Y	BIOL-186F-01		Undergrad Rsrch MCD	2	LAB	F		03:30P-04:40P		Sinsheimer Lb 123	Noller,H.F.	
<i>See Enrollment Conditions for instructions; taught in conjunction with BIOL 186L</i>													
21794	Y	BIOL-186L-01		Undergrad Rsrch MCD	5	LAB	F		03:30P-04:40P		Sinsheimer Lb 123	Noller,H.F.	
<i>See Enrollment Conditions for instructions; taught in conjunction with 186F</i>													
10859		BIOL-187L-01		Molec Biotech Lab	5	LAB	TTh		09:00A-01:00P		Thimann Lab 215	Zavanelli,M.I.	R
21188	Y	BIOL-189-01		Health Sci Intrnshp	5	FLD	W		05:00P-06:45P		Thimann Lab 391	Hartzog,G.A.	
<i>See Enrollment Conditions for instructions</i>													
11929		BIOL-200A-01		Advanced Genetics	5	LEC	T		02:00P-06:00P		Sinsheimer Lb 201	Saxton,W.M.	R
23808		BIOL-210-01		Expmtl Sys Biology	5	LEC	TTh		10:00A-11:45A		PhysSciences 305	Lowe,T.M.	R
<i>Also offered as BME 210</i>													
23085		BIOL-280A-01		Molec Gene Yeasts	2	SEM			**To Be Arranged**			Ares,M.	R
22886		BIOL-280B-01		Chromatin Structure	2	SEM			**To Be Arranged**			Boeger,H.H.	R
23102	Y	BIOL-280C-01		Mammalian Brain Dev	2	SEM			**To Be Arranged**			Chen,B.	
22473		BIOL-280D-01		RNA Processing	2	SEM			**To Be Arranged**			Zahler,A.M.	R
22474		BIOL-280F-01		Vert Neural Connect	2	SEM			**To Be Arranged**			Feldheim,D.A.	R
22475		BIOL-280H-01		Chromatn/Transcript	2	SEM			**To Be Arranged**			Hartzog,G.A.	R
22530		BIOL-280I-01		EpigeneticGeneSilenc	2	SEM			**To Be Arranged**			Kamakaka,R.T.	R
22476		BIOL-280J-01		Macromoleculr Cmplx	2	SEM			**To Be Arranged**			Jurica,M.S.	R
22477		BIOL-280K-01		Cell Cycle Research	2	SEM			**To Be Arranged**			Kellogg,D.	R
22478		BIOL-280L-01		Neural Development	2	SEM			**To Be Arranged**			Hinck,L.	R
22479		BIOL-280N-01		Function of Ribosom	2	SEM			**To Be Arranged**			Noller,H.F.	R
22480		BIOL-280O-01		Bacterial Pathogen	2	SEM			**To Be Arranged**			Ottemann,K.M.	R
23112	Y	BIOL-280Q-01		Oocyte/Embry/Neuron	2	SEM			**To Be Arranged**			Saxton,W.M.	
22531		BIOL-280R-01		Nuclear Pore Complex	2	SEM			**To Be Arranged**			Rexach,M.	R
23114	Y	BIOL-280S-01		Chrom/RNA reg	2	SEM			**To Be Arranged**			Strome,S.	
24174		BIOL-280T-01		Drosophila Developmt	2	SEM			**To Be Arranged**			Tamkun,J.W.	R
22481		BIOL-280U-01		Drosophila Embryo	2	SEM			**To Be Arranged**			Sullivan,W.	R
23116	Y	BIOL-280Y-01		Synaptic Plasticity	2	SEM			**To Be Arranged**			Zuo,Y.	
22469		BIOL-291-01		Mol Cell Devel Bio	2	SEM	M		12:30P-01:40P		N. Sci Annex 101	Staff	R
11930		BIOL-292-01		MCD Seminar	0	SEM	F		12:30P-01:40P		N. Sci Annex 101	Staff	R

## Biomolecular Engineering

22270		BME-80G-01		Bioethics 21st Cent	5 6	LEC	TTh		02:00P-03:45P		Humn Lecture 206	Staff	
<i>Enroll in lecture and associated discussion section; also offered as PHIL 80G</i>													
22271		BME-80G-01A		Discussion		DIS	M		09:30A-10:40A		Soc Sci 2 363	Staff	
22272		BME-80G-01B		Discussion		DIS	M		11:00A-12:10P		Soc Sci 2 363	Staff	
22273		BME-80G-01C		Discussion		DIS	M		03:30P-04:40P		Thimann Lab 101	Staff	
22274		BME-80G-01D		Discussion		DIS	T		08:30A-09:40A		Crown Clrm 201	Staff	
22275		BME-80G-01E		Discussion		DIS	T		07:30P-08:40P		Soc Sci 2 363	Staff	
22276		BME-80G-01F		Discussion		DIS	W		08:00A-09:10A		Soc Sci 2 363	Staff	
22277		BME-80G-01G		Discussion		DIS	W		12:30P-01:40P		Soc Sci 2 363	Staff	
22278		BME-80G-01H		Discussion		DIS	W		03:30P-04:40P		J Baskin Engr 169	Staff	
23448		BME-80G-01I		Discussion		DIS	W		07:00P-08:10P		J Baskin Engr 169	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23449		BME-80G-01J		Discussion		DIS	Th		08:30A-09:40A		J Baskin Engr 169	Staff	
23467		BME-80G-01K		Discussion		DIS	F		08:00A-09:10A		Crown Clrm 201	Staff	
23468		BME-80G-01L		Discussion		DIS	F		12:30P-01:40P		J Baskin Engr 169	Staff	
22046		BME-80H-01		The Human Genome	5	2	LEC	TTh	08:00A-09:45A		J Baskin Engr 152	Staff	
<i>Also offered as BIOL 80H</i>													
24540		BME-140-01		Bioinstrumentation	5		LEC	TTh	04:00P-05:45P		Hum & Soc Sci 250	Pourmand,N.	R
12622		BME-200-01		Teach Bioinformatic	3		LEC	T	04:00P-05:45P		PhysSciences 305	Lowe,T.M.	R
22013		BME-205-01		BioinfoModel/Algorithm	5		LEC	MWF	02:00P-03:10P		J Baskin Engr 156	Karplus,K.	R
23807		BME-210-01		Expmtl Sys Biology	5		LEC	TTh	10:00A-11:45A		PhysSciences 305	Lowe,T.M.	R
<i>Also offered as BIOL 210</i>													
23144		BME-225-01		Protein Function	5		LEC	TTh	02:00P-03:45P		PhysSciences 305	Gerloff,D.L.	R
12623		BME-280B-01		Bioinformatics Sem	2		SEM	TTh	12:00P-01:45P		PhysSciences 305	Forsberg,C.E.	R
23381		BME-281B-01		HIV VaccineResearch	2		SEM		**To Be Arranged**		PhysSciences 409	Berman,P.W.	R
23809		BME-281G-01		Sem Prot Struc Func	2		SEM		**To Be Arranged**		PhysSciences 305	Gerloff,D.L.	R
21655		BME-281H-01		Sem Compar Genomics	2		SEM		**To Be Arranged**		Engineer 2 599	Haussler,D.	R
21656		BME-281K-01		Sem Prot Struc Pred	2		SEM		**To Be Arranged**		PhysSciences 305	Karplus,K.	R
22280		BME-281L-01		Sem Comput Genetics	2		SEM		**To Be Arranged**		PhysSciences 305	Lowe,T.M.	R
21715		BME-281S-01		Sem Comput Genomics	2		SEM		**To Be Arranged**		PhysSciences 305	Stuart,J.M.	R

## Chemistry

12624		CHEM-1A-01		General Chemistry	5	NQ	LEC	TTh	10:00A-11:45A		ClassroomUnit 002	Schleich,T.W.	
<i>Enroll in lecture and associated discussion section</i>													
12625		CHEM-1A-01A		Discussion			DIS	M	08:00A-09:10A		Thimann Lab 101	Staff	
12626		CHEM-1A-01B		Discussion			DIS	M	11:00A-12:10P		Thimann Lab 101	Staff	
12627		CHEM-1A-01C		Discussion			DIS	M	07:00P-08:10P		Thimann Lab 101	Staff	
12628		CHEM-1A-01D		Discussion			DIS	T	08:00A-09:10A		Crown Clrm 202	Staff	
12629		CHEM-1A-01E		Discussion			DIS	T	06:00P-07:10P		Thimann Lab 101	Staff	
12630		CHEM-1A-01F		Discussion			DIS	T	07:30P-08:40P		Thimann Lab 101	Staff	
12631		CHEM-1A-01G		Discussion			DIS	W	08:00A-09:10A		Thimann Lab 101	Staff	
12632		CHEM-1A-01H		Discussion			DIS	W	07:00P-08:10P		Soc Sci 2 165	Staff	
12633		CHEM-1A-01I		Discussion			DIS	Th	08:00A-09:10A		Soc Sci 2 159	Staff	
12634		CHEM-1A-01J		Discussion			DIS	Th	06:00P-07:10P		Soc Sci 2 159	Staff	
12635		CHEM-1A-01K		Discussion			DIS	Th	07:30P-08:40P		Soc Sci 2 159	Staff	
12636		CHEM-1A-01L		Discussion			DIS	F	08:00A-09:10A		Thimann Lab 101	Staff	
12637		CHEM-1A-01M		Discussion			DIS	F	03:30P-04:40P		Crown Clrm 202	Staff	
12638		CHEM-1A-01N		Discussion			DIS	M	07:00P-08:10P		Soc Sci 1 145	Staff	
23410		CHEM-1A-01O		Discussion			DIS	W	09:30A-10:40A		Kresge Acad 194	Staff	
23411		CHEM-1A-01P		Discussion			DIS	W	07:00P-08:10P		Soc Sci 2 167	Staff	
23412		CHEM-1A-01Q		Discussion			DIS	Th	08:00A-09:10A		Soc Sci 2 167	Staff	
23413		CHEM-1A-01R		Discussion			DIS	Th	06:00P-07:10P		Soc Sci 2 167	Staff	
21796		CHEM-1A-01S		Discussion			DIS	F	08:00A-09:10A		Oakes Acad 222	Staff	
21797		CHEM-1A-01T		Discussion			DIS	F	12:30P-01:40P		Soc Sci 2 167	Staff	
21798		CHEM-1A-02		General Chemistry	5	NQ	LEC	MWF	08:00A-09:10A		Media Theater M110	Roland,R.E.	
<i>Enroll in lecture and associated discussion section</i>													
21799		CHEM-1A-02A		Discussion			DIS	M	02:00P-03:10P		Soc Sci 1 145	Staff	
21800		CHEM-1A-02B		Discussion			DIS	M	07:00P-08:10P		Crown Clrm 202	Staff	
21801		CHEM-1A-02C		Discussion			DIS	T	08:30A-09:40A		Soc Sci 2 159	Staff	
21802		CHEM-1A-02D		Discussion			DIS	T	06:00P-07:10P		Soc Sci 2 159	Staff	
21803		CHEM-1A-02E		Discussion			DIS	T	07:30P-08:40P		Soc Sci 2 159	Staff	
21804		CHEM-1A-02F		Discussion			DIS	W	07:00P-08:10P		Porter Acad 249	Staff	
22285		CHEM-1A-02G		Discussion			DIS	Th	08:30A-09:40A		Porter Acad 249	Staff	
22286		CHEM-1A-02H		Discussion			DIS	Th	06:00P-07:10P		Thimann Lab 101	Staff	
22287		CHEM-1A-02I		Discussion			DIS	Th	07:30P-08:40P		Thimann Lab 101	Staff	
22288		CHEM-1A-02J		Discussion			DIS	F	12:30P-01:40P		Thimann Lab 101	Staff	
22726		CHEM-1A-02K		Discussion			DIS	F	03:30P-04:40P		Thimann Lab 101	Staff	
22727		CHEM-1A-02L		Discussion			DIS	M	07:00P-08:10P		Soc Sci 2 167	Staff	
24344		CHEM-1A-02M		Discussion			DIS	T	08:30A-09:40A		Soc Sci 2 167	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24345		CHEM-1A-02N		Discussion		DIS	T		06:00P-07:10P		Soc Sci 2 167	Staff	
24346		CHEM-1A-02O		Discussion		DIS	T		07:30P-08:40P		Soc Sci 2 167	Staff	
24347		CHEM-1A-02P		Discussion		DIS	W		12:30P-01:40P		Soc Sci 2 167	Staff	
24348		CHEM-1A-02Q		Discussion		DIS	W		07:00P-08:10P		Hum & Soc Sci 350	Staff	
24349		CHEM-1A-02R		Discussion		DIS	Th		08:30A-09:40A		Hum & Soc Sci 350	Staff	
24350		CHEM-1A-02S		Discussion		DIS	F		02:00P-03:10P		Soc Sci 2 141	Staff	
24351		CHEM-1A-02T		Discussion		DIS	F		03:30P-04:40P		Oakes Acad 222	Staff	
24352		CHEM-1C-01		General Chemistry	5	NQ	LEC	MWF	11:00A-12:10P		Media Theater M110	Anderson,R.W.	R
<i>Enroll in lecture and associated discussion section</i>													
24353		CHEM-1C-01A		Discussion		DIS	M		08:00A-09:10A		Crown Clrm 202	Staff	
24354		CHEM-1C-01B		Discussion		DIS	M		12:30P-01:40P		Thimann Lab 101	Staff	
24355		CHEM-1C-01C		Discussion		DIS	M		07:00P-08:10P		Porter Acad 249	Staff	
24356		CHEM-1C-01D		Discussion		DIS	T		08:30A-09:40A		Soc Sci 2 165	Staff	
24357		CHEM-1C-01E		Discussion		DIS	T		06:00P-07:10P		Soc Sci 2 165	Staff	
24358		CHEM-1C-01F		Discussion		DIS	T		07:30P-08:40P		Soc Sci 2 165	Staff	
24359		CHEM-1C-01G		Discussion		DIS	W		08:00A-09:10A		Crown Clrm 202	Staff	
24360		CHEM-1C-01H		Discussion		DIS	W		08:00A-09:10A		Soc Sci 2 165	Staff	
24361		CHEM-1C-01I		Discussion		DIS	Th		08:30A-09:40A		Soc Sci 2 165	Staff	
24362		CHEM-1C-01J		Discussion		DIS	Th		06:00P-07:10P		Soc Sci 2 165	Staff	
24363		CHEM-1C-01K		Discussion		DIS	Th		07:30P-08:40P		Soc Sci 2 165	Staff	
24364		CHEM-1C-01L		Discussion		DIS	F		08:00A-09:10A		Crown Clrm 202	Staff	
24365		CHEM-1C-01M		Discussion		DIS	F		12:30P-01:40P		Soc Sci 1 149	Staff	
24366		CHEM-1C-01N		Discussion		DIS	F		03:30P-04:40P		Soc Sci 1 153	Staff	
24367		CHEM-1C-01O		Discussion		DIS	M		07:00P-08:10P		Hum & Soc Sci 350	Staff	
24368		CHEM-1C-01P		Discussion		DIS	F		08:00A-09:10A		Soc Sci 1 153	Staff	
23456		CHEM-1N-01		Gen Chem Lab	2		LAB	T	12:15P-03:15P		Nat Sci 2 289	Roland,R.E.	R
24384		CHEM-1N-02		Gen Chem Lab	2		LAB	T	12:15P-03:15P		Nat Sci 2 283	Roland,R.E.	R
24385		CHEM-1N-03		Gen Chem Lab	2		LAB	T	12:15P-03:15P		Nat Sci 2 273	Staff	R
24386		CHEM-1N-04		Gen Chem Lab	2		LAB	T	03:30P-06:30P		Nat Sci 2 289	Roland,R.E.	R
24387		CHEM-1N-05		Gen Chem Lab	2		LAB	T	03:30P-06:30P		Nat Sci 2 283	Roland,R.E.	R
24388		CHEM-1N-06		Gen Chem Lab	2		LAB	T	03:30P-06:30P		Nat Sci 2 273	Roland,R.E.	R
24389		CHEM-1N-07		Gen Chem Lab	2		LAB	T	07:00P-10:00P		Nat Sci 2 289	Roland,R.E.	R
24390		CHEM-1N-08		Gen Chem Lab	2		LAB	T	07:00P-10:00P		Nat Sci 2 283	Roland,R.E.	R
24391		CHEM-1N-09		Gen Chem Lab	2		LAB	T	07:00P-10:00P		Nat Sci 2 273	Roland,R.E.	R
24392		CHEM-1N-10		Gen Chem Lab	2		LAB	W	03:30P-06:30P		Nat Sci 2 289	Roland,R.E.	R
24393		CHEM-1N-11		Gen Chem Lab	2		LAB	W	03:30P-06:30P		Nat Sci 2 283	Roland,R.E.	R
24394		CHEM-1N-12		Gen Chem Lab	2		LAB	W	03:30P-06:30P		Nat Sci 2 273	Roland,R.E.	R
24395		CHEM-1N-13		Gen Chem Lab	2		LAB	Th	12:15P-03:15P		Nat Sci 2 289	Roland,R.E.	R
24396		CHEM-1N-14		Gen Chem Lab	2		LAB	Th	12:15P-03:15P		Nat Sci 2 283	Roland,R.E.	R
24397		CHEM-1N-15		Gen Chem Lab	2		LAB	Th	12:15P-03:15P		Nat Sci 2 273	Roland,R.E.	R
24398		CHEM-1N-16		Gen Chem Lab	2		LAB	Th	03:30P-06:30P		Nat Sci 2 289	Roland,R.E.	R
24399		CHEM-1N-17		Gen Chem Lab	2		LAB	Th	03:30P-06:30P		Nat Sci 2 283	Roland,R.E.	R
24400		CHEM-1N-18		Gen Chem Lab	2		LAB	Th	03:30P-06:30P		Nat Sci 2 273	Roland,R.E.	R
24401		CHEM-1N-19		Gen Chem Lab	2		LAB	Th	07:00P-10:00P		Nat Sci 2 289	Roland,R.E.	R
24402		CHEM-1N-20		Gen Chem Lab	2		LAB	Th	07:00P-10:00P		Nat Sci 2 283	Roland,R.E.	R
24403		CHEM-1N-21		Gen Chem Lab	2		LAB	Th	07:00P-10:00P		Nat Sci 2 273	Roland,R.E.	R
23092		CHEM-1P-01		Chem Essentials	3		LEC	TTh	10:00A-11:45A		Thim Lecture 001	Roland,R.E.	
<i>Enroll in lecture and associated discussion section</i>													
23093		CHEM-1P-01A		Discussion		DIS	M		12:30P-01:40P		Oakes Acad 103	Staff	
23094		CHEM-1P-01B		Discussion		DIS	T		06:00P-07:10P		Oakes Acad 103	Staff	
23095		CHEM-1P-01C		Discussion		DIS	T		07:30P-08:40P		Oakes Acad 103	Staff	
23096		CHEM-1P-01D		Discussion		DIS	F		08:00A-09:10A		Crown Clrm 203	Staff	
		CHEM-99F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
12644		CHEM-108A-01		Organic Chemistry	5		LEC	TTh	08:00A-09:45A		ClassroomUnit 002	Lokey,R.S.	R
<i>Enroll in lecture and associated discussion section</i>													

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
12645		CHEM-108A-01A		Discussion		DIS	M		08:00A-09:10A		Soc Sci 2 165	Staff	
12646		CHEM-108A-01B		Discussion		DIS	M		09:30A-10:40A		Soc Sci 1 153	Staff	
12647		CHEM-108A-01C		Discussion		DIS	M		02:00P-03:10P		Hum & Soc Sci 250	Staff	
12648		CHEM-108A-01D		Discussion		DIS	M		07:00P-08:10P		Soc Sci 2 165	Staff	
12649		CHEM-108A-01E		Discussion		DIS	W		08:00A-09:10A		Soc Sci 2 159	Staff	
12650		CHEM-108A-01F		Discussion		DIS	W		12:30P-01:40P		Soc Sci 1 149	Staff	
12651		CHEM-108A-01G		Discussion		DIS	W		02:00P-03:10P		Hum & Soc Sci 250	Staff	
12652		CHEM-108A-01H		Discussion		DIS	W		03:30P-04:40P		Thimann Lab 101	Staff	
12653		CHEM-108A-01I		Discussion		DIS	W		05:00P-06:10P		Thimann Lab 101	Staff	
12654		CHEM-108A-01J		Discussion		DIS	W		07:00P-08:10P		Soc Sci 2 159	Staff	
12655		CHEM-108A-01K		Discussion		DIS	Th		06:00P-07:10P		Steven Acad 151	Staff	
12656		CHEM-108A-01L		Discussion		DIS	Th		07:30P-08:40P		Steven Acad 151	Staff	
21125		CHEM-108A-01M		Discussion		DIS	F		08:00A-09:10A		Soc Sci 2 165	Staff	
21126		CHEM-108A-01N		Discussion		DIS	F		02:00P-03:10P		Hum & Soc Sci 250	Staff	
23440		CHEM-108A-01O		Discussion		DIS	F		03:30P-04:40P		Soc Sci 2 165	Staff	
24448		CHEM-108A-01P		Discussion		DIS	M		02:00P-03:10P		Oakes Acad 103	Staff	
24449		CHEM-108A-01Q		Discussion		DIS	W		08:00A-09:10A		Porter Acad 249	Staff	
24450		CHEM-108A-01R		Discussion		DIS	F		08:00A-09:10A		Soc Sci 1 149	Staff	
12657		CHEM-108L-01		Organic Chem Lab	2	LAB	F		11:00A-12:10P		ClassroomUnit 002	Palleros,D.	R
				<i>Enroll in lab and associated secondary lab</i>									
12658		CHEM-108L-01A		Secondary Lab		LBS	T		12:30P-04:30P		Thimann Lab 261	Staff	
12659		CHEM-108L-01B		Secondary Lab		LBS	T		12:30P-04:30P		Thimann Lab 271	Staff	
12660		CHEM-108L-01C		Secondary Lab		LBS	T		12:30P-04:30P		Thimann Lab 257	Staff	
12661		CHEM-108L-01D		Secondary Lab		LBS	T		05:30P-09:30P		Thimann Lab 261	Staff	
12662		CHEM-108L-01E		Secondary Lab		LBS	T		05:30P-09:30P		Thimann Lab 271	Staff	
12663		CHEM-108L-01F		Secondary Lab		LBS	T		05:30P-09:30P		Thimann Lab 257	Staff	
12664		CHEM-108L-01G		Secondary Lab		LBS	W		08:00A-12:00P		Thimann Lab 261	Staff	
12665		CHEM-108L-01H		Secondary Lab		LBS	W		08:00A-12:00P		Thimann Lab 271	Staff	
12666		CHEM-108L-01I		Secondary Lab		LBS	W		08:00A-12:00P		Thimann Lab 257	Staff	
12667		CHEM-108L-01J		Secondary Lab		LBS	W		12:30A-04:30A		Thimann Lab 261	Staff	
12668		CHEM-108L-01K		Secondary Lab		LBS	W		12:30P-04:30P		Thimann Lab 271	Staff	
12669		CHEM-108L-01L		Secondary Lab		LBS	W		12:30P-04:30P		Thimann Lab 257	Staff	
12670		CHEM-108L-01M		Secondary Lab		LBS	W		05:30P-09:30P		Thimann Lab 261	Staff	
12671		CHEM-108L-01N		Secondary Lab		LBS	W		05:30P-09:30P		Thimann Lab 271	Staff	
12672		CHEM-108L-01O		Secondary Lab		LBS	W		05:30P-09:30P		Thimann Lab 257	Staff	
21128		CHEM-108L-01P		Secondary Lab		LBS	Th		12:30P-04:30P		Thimann Lab 261	Staff	
22290		CHEM-108L-01Q		Secondary Lab		LBS	Th		12:30P-04:30P		Thimann Lab 271	Staff	
22291		CHEM-108L-01R		Secondary Lab		LBS	Th		12:30P-04:30P		Thimann Lab 257	Staff	
22529		CHEM-108L-01S		Secondary Lab		LBS	Th		05:30P-09:30P		Thimann Lab 261	Staff	
24454		CHEM-108L-01T		Secondary Lab		LBS	Th		05:30P-09:30P		Thimann Lab 271	Staff	
24455		CHEM-108L-01U		Secondary Lab		LBS	Th		05:30P-09:30P		Thimann Lab 257	Staff	
24456		CHEM-108L-01V		Secondary Lab		LBS	M		01:30P-05:30P		Thimann Lab 261	Staff	
24457		CHEM-108L-01W		Secondary Lab		LBS	M		01:30P-05:30P		Thimann Lab 271	Staff	
24458		CHEM-108L-01X		Secondary Lab		LBS	M		01:30P-05:30P		Thimann Lab 257	Staff	
24459		CHEM-108L-01Y		Secondary Lab		LBS	M		09:00A-01:00P		Thimann Lab 261	Staff	
24460		CHEM-108L-01Z		Secondary Lab		LBS	M		09:00A-01:00P		Thimann Lab 271	Staff	
12673		CHEM-112A-01		Organic Chemistry	5	LEC	TTh		08:00A-09:45A		Thim Lecture 001	Konopelski,J.P.	R
				<i>Enroll in lecture and associated discussion section</i>									
12674		CHEM-112A-01A		Discussion		DIS	M		07:00P-08:10P		Crown Clrm 201	Staff	
12675		CHEM-112A-01B		Discussion		DIS	W		08:00A-09:10A		J Baskin Engr 169	Staff	
12676		CHEM-112A-01C		Discussion		DIS	W		12:30P-01:40P		J Baskin Engr 169	Staff	
12677		CHEM-112A-01D		Discussion		DIS	F		12:30P-01:40P		Soc Sci 2 363	Staff	
12678		CHEM-112L-01		Organic Chem Lab	2	LAB	F		09:30A-10:40A		N. Sci Annex 101	Palleros,D.	R
				<i>Enroll in lab and associated secondary lab</i>									
12679		CHEM-112L-01A		Secondary Lab		LBS	T		12:30P-04:30P		Thimann Lab 275	Staff	
12680		CHEM-112L-01B		Secondary Lab		LBS	T		05:00P-09:00P		Thimann Lab 275	Staff	
12681		CHEM-112L-01C		Secondary Lab		LBS	W		12:30P-04:30P		Thimann Lab 275	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
12682		CHEM-112L-01D		Secondary Lab		LBS	W		05:00P-09:00P		Thimann Lab 275	Staff	
21716		CHEM-112L-01E		Secondary Lab		LBS	Th		12:30P-04:30P		Thimann Lab 275	Staff	
12683		CHEM-122-01		Instrumental Analys	5	W	LEC	WF	11:00A-12:10P		Thimann Lab 101	Smith,D.R.	R
12684		CHEM-122-01A		Secondary Lab		LBS	MTWTh		01:00P-05:00P		Nat Sci 2 261	Staff	
12685		CHEM-143-01		Org Chem Structure	5		LEC	TTh	10:00A-11:45A		PhysSciences 136	Singaram,B.	R
22728		CHEM-143-01A		Discussion			DIS	W	05:00P-06:10P		PhysSciences 136	Staff	
21805		CHEM-146A-01		Adv Lab Organic	2		LAB	TTh	01:00P-05:00P		Thimann Lab 249	Staff	R
12686		CHEM-163A-01		Quantum Mech & Spec	5		LEC	MWF	09:30A-10:40A		Kresge Clrm 321	Benjamin,I.	R
				<i>Enroll in lecture and associated discussion section</i>									
12687		CHEM-163A-01A		Discussion			DIS	M	06:30P-07:40P		PhysSciences 140	Staff	
12688		CHEM-163A-01B		Discussion			DIS	T	12:00P-01:10P		PhysSciences 140	Staff	
12689		CHEM-163A-01C		Discussion			DIS	Th	06:00P-07:10P		PhysSciences 136	Staff	
12690		CHEM-163A-01D		Discussion			DIS	Th	07:30P-08:40P		PhysSciences 136	Staff	
12691		CHEM-164A-01		Data Analysis Lab	2		LAB	M	11:00A-12:10P		N. Sci Annex 102	Chen,S.	R
		CHEM-180A-XXX		Senior Research	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CHEM-180B-XXX		Senior Research	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CHEM-180C-XXX		Senior Research	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CHEM-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CHEM-199F-XXX		Tutorial	2		IND		12:00A-12:00A			Staff	
				<i>See sponsoring agency for class number</i>									
12893		CHEM-200A-01		Adv Biophys Methods	5		LEC	MWF	11:00A-12:10P		Crown Clrm 203	Rubin,S.M.	
24464		CHEM-240A-01		Kinetics & Mechanic	3		LEC	MWF	09:30A-10:40A		Thimann Lab 101	Bernasconi,C.F.	
12894		CHEM-240E-01		Mod Synthetic Metho	3		LEC	TTh	08:00A-09:45A		Thimann Lab 101	Singaram,B.	R
24466		CHEM-263-01		Quantum Mechanics	5		LEC	MWF	09:30A-10:40A		Soc Sci 2 171	Zhang,J.Z.	R
24467		CHEM-269-01		Electrochemistry	5		LEC	Th	12:00P-01:45P		Thimann Lab 101	Chen,S.	R
21712		CHEM-274-01		Prosem Synth/Polymr	5		SEM	T	05:00P-08:00P		PhysSciences 357	Braslau,R.	
22070		CHEM-275-01		Bio Inorganic Chem	5		SEM	Th	02:00P-03:45P		PhysSciences 257	Holman,T.R.	
12895		CHEM-282-01		Synthetic Methods	5		SEM	Th	02:00P-04:00P		PhysSciences 357	Singaram,B.	
12896		CHEM-283-01		Prosem Phys O Chem	5		SEM	W	07:00P-10:00P		PhysSciences 357	Bernasconi,C.F.	
12897		CHEM-284-01		Prosem Syn Org Chem	5		SEM	M	10:30A-12:30P		PhysSciences 357	Konopelski,J.P.	
12898		CHEM-285-01		Photobiochem & Bio	5		LEC	M	12:30P-01:40P		PhysSciences 145	Bogomolni,R.A.	
12899		CHEM-286-01		Prosem Nat Pro Chem	5		SEM	W	02:00P-04:30P		PhysSciences 357	Crews,P.O.	
12900		CHEM-288-01		Prosem In Bioinorga	5		SEM	Th	02:00P-03:45P		PhysSciences 257	Mascharak,P.	
12901		CHEM-291A-01		Organic Research	5		SEM	M	04:00P-05:30P		PhysSciences 240	Konopelski,J.P.	R
				<i>Taught in conjunction with CHEM 291C</i>									
12902		CHEM-291B-01		Biochem Seminar	5		SEM	W	03:30P-05:30P		PhysSciences 240	Millhauser,G.L.	R
				<i>Taught in conjunction with CHEM 291D</i>									
12903		CHEM-291C-01		Inorganic Research	5		SEM	M	04:00P-05:30P		PhysSciences 240	Mascharak,P.	R
				<i>Taught in conjunction with CHEM 291A</i>									
12904		CHEM-291D-01		Physical Research	5		SEM	W	03:30P-05:30P		PhysSciences 240	Chen,S.	R
				<i>Taught in conjunction with CHEM 291B</i>									
12905		CHEM-292-01		Seminar	2		SEM	W	12:30P-01:40P		PhysSciences 240	Staff	R
12906		CHEM-296-01		Teaching Chemistry	3		SEM	M	12:30P-01:40P		Soc Sci 2 167	Roland,R.E.	
		CHEM-297-XXX		Independent Study	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CHEM-299A-XXX		Thesis Research	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CHEM-299B-XXX		Thesis Research	10		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CHEM-299C-XXX		Thesis Research	15		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
<b>Chinese</b>													
13053		CHIN-1-01		Chinese: Mandarin	5	LEC	MWF		08:00A-09:10A		Hum & Soc Sci 250	Keenan,D.L.	
13054		CHIN-1-02		Chinese: Mandarin	5	LEC	MWF		09:30A-10:40A		Hum & Soc Sci 250	Keenan,D.L.	
13055		CHIN-1-03		Chinese: Mandarin	5	LEC	MWF		12:30P-01:40P		Soc Sci I 145	Keenan,D.L.	
13056		CHIN-4-01		Intermed Chinese	5	H	LEC	MWF	08:00A-09:10A		Soc Sci I 145	Staff	R
13057		CHIN-50-01		Preadvanced Chinese	5	H	SEM	MWF	09:30A-10:40A		Soc Sci I 145	Staff	R
<b>Community Studies</b>													
13119		CMMU-70-01		Video Lab	2	LAB	T		02:00P-03:45P		Soc Sci 2 047	Staff	R
				<i>Concurrent enrollment in CMMU 80L is required</i>									
13120		CMMU-70-02		Video Lab	2	LAB	W		10:00A-11:45A		Soc Sci 2 047	Staff	R
				<i>Concurrent enrollment in CMMU 80L is required</i>									
13121		CMMU-70-03		Video Lab	2	LAB	Th		10:00A-11:45A		Soc Sci 2 047	Staff	R
				<i>Concurrent enrollment in CMMU 80L is required</i>									
13122		CMMU-71-01		Basic Photo Lab	2	LAB	Th		02:00P-03:45P		Soc Sci 2 047	Staff	R
				<i>Concurrent enrollment in CMMU 80L is required</i>									
13124		CMMU-72-01		Audio Lab	2	LAB	W		02:00P-03:45P		Soc Sci 2 047	Staff	R
				<i>Concurrent enrollment in CMMU 80L is required</i>									
22731		CMMU-73-01		Digital Photo Lab	2	LAB	T		10:00A-11:45A		Soc Sci 2 047	Staff	R
				<i>Concurrent enrollment in CMMU 80L is required</i>									
23810		CMMU-73-02		Digital Photo Lab	2	LAB	F		10:00A-11:45A		Soc Sci 2 047	Staff	R
				<i>Concurrent enrollment in CMMU 80L is required</i>									
22737		CMMU-80B-01		Civil Rights Movmnt	5	3E	LEC	MWF	12:30P-01:40P		Oakes Acad 105	Brundage,D.T.	
22738		CMMU-80B-01A		Discussion			DIS	W	08:00A-09:10A		Oakes Acad 222	Staff	
22739		CMMU-80B-01B		Discussion			DIS	W	11:00A-12:10P		Oakes Acad 222	Staff	
22740		CMMU-80B-01C		Discussion			DIS	Th	06:00P-07:10P		Oakes Acad 222	Staff	
22741		CMMU-80B-01D		Discussion			DIS	Th	07:30P-08:40P		Oakes Acad 222	Staff	
13125		CMMU-80L-01		Soc Documentation	5	3	LEC	TTh	12:00P-01:45P		Eight Acad 240	Staff	
				<i>Enroll in lecture and associated discussion section</i>									
13126		CMMU-80L-01A		Discussion			DIS	W	09:30A-10:40A		Oakes Acad 101	Staff	
13127		CMMU-80L-01B		Discussion			DIS	Th	06:00P-07:10P		Oakes Acad 101	Staff	
13128		CMMU-80L-01C		Discussion			DIS	Th	07:30P-08:40P		Oakes Acad 101	Staff	
13129		CMMU-80L-01D		Discussion			DIS	F	09:30A-10:40A		Oakes Acad 101	Staff	
		CMMU-93-XXX		Field Study	5		FLI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-93F-XXX		Fld Study Tutorial	2		FLI		**To Be Arranged**			Staff	
		CMMU-93G-XXX		Field Study	3		FLI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-99-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-99F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	
22747	Y	CMMU-100J-01		Immigrtn Soc Justic	5	SE	SEM	MW	05:00P-06:45P		Soc Sci I 145	Brundage,D.T.	
									Th		04:00P-04:45P	Porter Acad 144	
22748	Y	CMMU-100M-01		Healthcare Inequal	5	S	SEM	TTh	12:00P-01:45P		Hum & Soc Sci 350	Steiner,A.	
									Th		04:00P-05:45P	Merrill Acad 132	
23812		CMMU-114-01		Whiteness & Racism	5	E	SEM	W	03:30P-07:00P		Oakes Acad 102	Wellman,D.T.	
22751		CMMU-118-01		Broadcast Journalism	2		SEM	T	12:00P-01:45P		Porter Acad 249	Goodman,R.A.	R
22437		CMMU-119-01		Banana Slug News	2		SEM	M	08:00P-10:00P		Porter Acad 250	Staff	
24551		CMMU-122-01		Experiments: Utopia	5		LEC	Th	06:00P-09:00P		Oakes Acad 105	Boal,I.A.	
				<i>Enroll in lecture and associated discussion section</i>									
24552		CMMU-122-01A		Discussion			DIS	T	06:00P-07:10P		Oakes Acad 222	Staff	
24553		CMMU-122-01B		Discussion			DIS	T	07:30P-08:40P		Oakes Acad 222	Staff	
24554		CMMU-122-01C		Discussion			DIS	Th	08:30A-09:40A		Oakes Acad 222	Staff	
24555		CMMU-122-01D		Discussion			DIS	F	11:00A-12:10P		Oakes Acad 222	Staff	
23813	Y	CMMU-130-01		Juvenile Justice	5		SEM	F	11:00A-02:00P		J Baskin Engr 372	Wormhoudt,M.	
23814		CMMU-145-01		Politics of Obesity	5		LEC	MWF	11:00A-12:10P		Eight Acad 240	Staff	
				<i>Enroll in lecture and associated discussion section</i>									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23815		CMMU-145-01A		Discussion		DIS	T		12:00P-01:10P		Oakes Acad 222	Staff	
23816		CMMU-145-01B		Discussion		DIS	W		08:00A-09:10A		Oakes Acad 102	Staff	
		CMMU-193-XXX		Field Study	5	FLI			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-193F-XXX		Field Study	2	FLI			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-193G-XXX		Field Study	3	FLI			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-195A-XXX		Sr Thesis	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-195B-XXX		Senior Thesis	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-195C-XXX		Senior Thesis	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-198-XXX		Indep Field Study	5	FLI			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-199-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-199F-XXX		Tutorial	2	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMMU-297-XXX		Independent Study	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									

## Computer Engineering

21741		CMPE-1-01		Hands-on Comp Engr	2	LAB	W		03:30P-05:30P		J Baskin Engr 104	Hughey,R.P.	R
13378		CMPE-3-01		Personal Computers	5	N	LEC	TTh	06:00P-07:45P		ClassroomUnit 002	Di Blas,A.	
13379		CMPE-3-01A		Secondary Lab		LBS	M		01:00P-02:30P		J Baskin Engr 109	Staff	
13380		CMPE-3-01B		Secondary Lab		LBS	T		12:00P-01:30P		J Baskin Engr 109	Staff	
21135		CMPE-3-01C		Secondary Lab		LBS	T		08:00P-09:30P		J Baskin Engr 109	Staff	
21853		CMPE-3-01D		Secondary Lab		LBS	W		01:00P-02:30P		J Baskin Engr 109	Staff	
23817		CMPE-3-01E		Secondary Lab		LBS	Th		12:00P-01:30P		J Baskin Engr 109	Staff	
23818		CMPE-3-01F		Secondary Lab		LBS	Th		08:00P-09:30P		J Baskin Engr 109	Staff	
23819		CMPE-3-01G		Secondary Lab		LBS	F		01:00P-02:30P		J Baskin Engr 109	Staff	
22426		CMPE-8-01		Robot Automation	5	NQ	LEC	TTh	12:00P-01:45P		Engineer 2 180	Dunbar,W.B.	R
				<i>Enroll in lecture and associated secondary lab</i>									
23233		CMPE-8-01A		Secondary Lab		LBS			**To Be Arranged**		J Baskin Engr 104	Staff	
23234		CMPE-8-01B		Secondary Lab		LBS			**To Be Arranged**		J Baskin Engr 104	Staff	
23235		CMPE-8-01C		Secondary Lab		LBS			**To Be Arranged**		J Baskin Engr 104	Staff	
23821		CMPE-8-01D		Secondary Lab		LBS			**To Be Arranged**		J Baskin Engr 104	Staff	
23822		CMPE-8-01E		Secondary Lab		LBS			**To Be Arranged**		J Baskin Engr 104	Staff	
21168		CMPE-12-01		Com Sys/Assmby Lan	5	NQ	LEC	TTh	02:00P-03:45P		Merrill Acad 102	Di Blas,A.	R
				<i>Concurrent enrollment in CMPE 12L is required</i>									
23690		CMPE-12-01A		Discussion		DIS	M		02:00P-03:10P		Porter Acad 144	Staff	
23691		CMPE-12-01B		Discussion		DIS	T		12:00P-01:10P		Steven acad 175	Staff	
22294		CMPE-12L-01		Comp Sys/Lang Lab	2	LAB	MW		11:00A-01:00P		J Baskin Engr 109	Di Blas,A.	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
13381		CMPE-12L-02		Comp Sys/Lang Lab	2	LAB	MW		05:00P-07:00P		J Baskin Engr 109	Di Blas,A.	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
13382		CMPE-12L-03		Comp Sys/Lang Lab	2	LAB	MW		07:00P-09:00P		J Baskin Engr 109	Di Blas,A.	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
23824		CMPE-12L-04		Comp Sys/Lang Lab	2	LAB	TTh		10:00A-12:00P		J Baskin Engr 109	Di Blas,A.	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
23825		CMPE-12L-05		Comp Sys/Lang Lab	2	LAB	TTh		04:00P-06:00P		J Baskin Engr 109	Di Blas,A.	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
24176		CMPE-12L-06		Comp Sys/Lang Lab	2	LAB	TTh		06:00P-08:00P		J Baskin Engr 109	Di Blas,A.	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
13383		CMPE-16-01		Appl Discrete Math	5	Q	LEC	TTh	12:00P-01:45P		J Baskin Engr 152	Garcia-Luna-Aceves,J.J.	R
				<i>Enroll in lecture and associated discussion section</i>									
22140		CMPE-16-01A		Discussion			DIS	M	05:00P-06:10P		Engineer 2 194	Staff	
22141		CMPE-16-01B		Discussion			DIS	M	06:30P-07:40P		Engineer 2 194	Staff	
22462		CMPE-16-01C		Discussion			DIS	W	02:00P-03:10P		Earth&Marine B210	Staff	
22616		CMPE-16-01D		Discussion			DIS	F	12:30P-01:40P		Earth&Marine B214	Staff	
13384		CMPE-80N-01		Intro to Networking	5	2	LEC	MW	05:00P-06:45P		J Bask Aud 101	Larrabee,T.	
13385		CMPE-107-01		Math Methods-Stoch	5		LEC	TTh	12:00P-01:45P		PhysSciences 114	Brandwajn,A.	R
24662		CMPE-107-51		Math Methods-Stoch	5		LEC		**To Be Arranged**			Brandwajn,A.	R
23293		CMPE-121-01		Micro System Design	5		LEC	MWF	03:30P-04:40P		PhysSciences 130	Petersen,S.C.	R
				<i>Concurrent enrollment in CMPE 121L is required</i>									
23328		CMPE-121L-01		Micro Sys Desgn Lab	2		LAB		**To Be Arranged**		J Baskin Engr 161	Petersen,S.C.	R
				<i>Concurrent enrollment in CMPE 121 is required</i>									
23532		CMPE-121L-02		Micro Sys Desgn Lab	2		LAB		**To Be Arranged**		J Baskin Engr 161	Petersen,S.C.	R
				<i>Concurrent enrollment in CMPE 121 is required</i>									
13386	Y	CMPE-123A-01		Engr Design Proj I	5		LEC	TTh	02:00P-03:45P		PhysSciences 136	Chan,P.K. Vesucky,J.F.	
				<i>Also offered as EE 123A</i>									
24680		CMPE-125-01		Log Desgn W/Verilog	5		LEC	MWF	02:00P-03:10P		Soc Sci 2 171	Chan,P.K.	R
				<i>Concurrent enrollment in CMPE125L is required</i>									
24681		CMPE-125L-01		Verilog Laboratory	2		LAB		**To Be Arranged**		J Baskin Engr 115	Chan,P.K.	R
				<i>Concurrent enrollment in CMPE125 is required</i>									
24682		CMPE-125L-02		Verilog Laboratory	2		LAB		**To Be Arranged**		J Baskin Engr 115	Chan,P.K.	R
				<i>Concurrent enrollment in CMPE125 is required</i>									
23827		CMPE-131-01		HCI	5		LEC	TTh	12:00P-01:45P		Kresge Clrm 327	Kurniawan,S.H.	R
				<i>Also offered as PSYC 131; taught in conjunction with CMPE 231 and PSYC 223</i>									
21858		CMPE-174-01		Intro to EDA Tools	3		LAB	MW	05:00P-06:45P		J Baskin Engr 104	Petersen,S.C.	R
22461		CMPE-185-01		Tech Writ Comp Engs	5	W	LEC	TTh	04:00P-05:45P		Engineer 2 194	Larrabee,T.	R
		CMPE-193-XXX		Field Study	5		FLI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMPE-194-XXX		Group Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMPE-195-XXX		Senior Thesis Res	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMPE-198-XXX		Indiv Study Or Res	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		CMPE-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
13435		CMPE-200-01		Resrch & Teaching	3		SEM	T	04:00P-05:45P		Kresge Clrm 327	Ferguson,F.J. Lodha,S.K.	R
				<i>Taught in conjunction with CMPS 200</i>									
22762		CMPE-202-01		Comp Architecture	5		LEC	TTh	12:00P-01:45P		Engineer 2 194	Renau Ardevol,J.	R
21845		CMPE-222-01		Intro Vlsi Design	5		LEC	TTh	06:00P-07:45P		J Baskin Engr 169	Guthaus,M.R.	R
23839		CMPE-229-01		FPGA CAD	5		SEM	TTh	10:00A-11:45A		TBA	Schlag,M.	R
23828		CMPE-231-01		HCI	5		LEC	TTh	12:00P-01:45P		Kresge Clrm 327	Kurniawan,S.H.	R
				<i>Also offered as PSYC 223; taught in conjunction with CMPE 131 and PSYC 223</i>									
22014		CMPE-240-01		LinearDynamicalSystem	5		LEC	MWF	11:00A-12:10P		Soc Sci 2 171	Wiberg,D.M.	R
23840		CMPE-250-01		Multimedia Systems	5		SEM	MW	05:00P-06:45P		J Baskin Engr 156	Manduchi,R.	R
23841		CMPE-250-50		Multimedia Systems	5		SEM	MW	05:00P-06:45P		SiliconValleyCtr	Manduchi,R.	R
13436		CMPE-252A-01		Computer Networks	5		LEC	TTh	10:00A-11:45A		J Baskin Engr 156	Varma,A.M.	R
23842		CMPE-256-50		Network Project	5		LEC	F	05:00P-08:00P		SiliconValleyCtr	Varma,A.M.	R
22015		CMPE-280C-01		Seminar on Control	2		SEM		**To Be Arranged**		Engineer 2 308	Dunbar,W.B.	R
23838		CMPE-280G-01		VLSI/CAD Seminar	2		SEM		**To Be Arranged**		Engineer 2 216	Guthaus,M.R.	
23430	Y	CMPE-280N-01		Seminar On Networks	2		SEM		**To Be Arranged**		Engineer 2 315	Garcia-Luna-Aceves,J.J. Obraczka,K.	
22296		CMPE-280P-01		Parallel Processing	2		SEM		**To Be Arranged**		Engineer 2 216	Renau Ardevol,J.	R
22016		CMPE-280V-01		Seminar:ComputrVision	2		SEM		**To Be Arranged**		Engineer 2 301	Tao,H.	
		CMPE-297-XXX		Independent Study	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
		CMPE-299-XXX		Thesis Research	5	IND			**To Be Arranged**			Staff	
		See sponsoring agency for class number											
<b>Computer Science</b>													
13762		CMPS-2-01		Computer Literacy	5	N	LEC	TTh	12:00P-01:45P		ClassroomUnit 001	Franca,P.B.	
		Enroll in lecture and associated secondary lab											
21153		CMPS-2-01A		Secondary Lab			LBS	MW	09:30A-11:00A		Soc Sci I 135	Staff	
22297		CMPS-2-01B		Secondary Lab			LBS	MW	11:00A-12:30P		Soc Sci I 135	Staff	
21154		CMPS-2-01C		Secondary Lab			LBS	MW	03:00P-04:30P		Soc Sci I 135	Staff	
21155		CMPS-2-01D		Secondary Lab			LBS	MW	04:30P-06:00P		Soc Sci I 135	Staff	
21156		CMPS-2-01E		Secondary Lab			LBS	TTh	09:30A-11:00A		Soc Sci I 135	Staff	
21157		CMPS-2-01F		Secondary Lab			LBS	TTh	06:00P-07:30P		Soc Sci I 135	Staff	
23405		CMPS-2-01G		Secondary Lab			LBS	TTh	10:00A-11:30A		Eight Acad 101	Staff	
23844		CMPS-2-01H		Secondary Lab			LBS	TTh	02:30P-04:00P		Eight Acad 101	Staff	
23845		CMPS-2-01I		Secondary Lab			LBS	MW	01:00P-02:30P		Eight Acad 101	Staff	
24673		CMPS-2-01J		Secondary Lab			LBS	TTh	04:00P-05:30P		Eight Acad 101	Staff	
24664		CMPS-5P-01		Intro Prog Python	5	N	LEC	TTh	02:00P-03:45P		Kresge Clrm 327	Miller,E.L.	
		Enroll in lecture and associated secondary lab											
24665		CMPS-5P-01A		Secondary Lab			LBS	M	09:30A-11:00A		J Baskin Engr 105	Staff	
24666		CMPS-5P-01B		Secondary Lab			LBS	T	12:00P-01:30P		J Baskin Engr 105	Staff	
24667		CMPS-5P-01C		Secondary Lab			LBS	W	02:00P-03:30P		J Baskin Engr 105	Staff	
24668		CMPS-5P-01D		Secondary Lab			LBS	Th	06:00P-07:30P		J Baskin Engr 105	Staff	
13763		CMPS-10-01		Intro Computer Sci	5	N	LEC	MWF	12:30P-01:40P		Media Theater M110	Tantalo,P.	
21719		CMPS-10-01A		Secondary Lab			LBS	M	09:00A-11:00A		J Baskin Engr 109	Staff	
21720		CMPS-10-01B		Secondary Lab			LBS	T	02:00P-04:00P		J Baskin Engr 109	Staff	
21721		CMPS-10-01C		Secondary Lab			LBS	W	03:00P-05:00P		J Baskin Engr 109	Staff	
21722		CMPS-10-01D		Secondary Lab			LBS	M	02:00P-04:00P		J Baskin Engr 105	Staff	
21723		CMPS-10-01E		Secondary Lab			LBS	Th	10:00A-12:00P		J Baskin Engr 105	Staff	
22535		CMPS-10-01F		Secondary Lab			LBS	F	12:00P-02:00P		J Baskin Engr 105	Staff	
24709		CMPS-12A-01		Intro Programming			LEC	MWF	09:30A-10:40A		Engineer 2 180	Staff	R
		Concurrent enrollment in CMPS 12L is required											
22768		CMPS-12B-01		Intro Data Structur	5	N	LEC	MW	05:00P-06:45P		Kresge Clrm 327	Mackey,W.F.	R
		Concurrent enrollment in CMPS 12M is required											
24710		CMPS-12L-01		Comp Prog Lab	2		LAB	M	03:00P-05:00P		J Baskin Engr 109	Staff	R
		Concurrent enrollment in CMPS 12A is required											
24711		CMPS-12L-02		Comp Prog Lab	2		LAB	Th	02:00P-04:00P		J Baskin Engr 109	Staff	R
		Concurrent enrollment in CMPS 12A is required											
24712		CMPS-12L-03		Comp Prog Lab	2		LAB	F	11:00A-01:00P		J Baskin Engr 109	Staff	R
		Concurrent enrollment in CMPS 12A is required											
22772		CMPS-12M-01		Data Structures Lab	2		LAB	T	04:00P-06:00P		J Baskin Engr 105	Mackey,W.F.	R
		Concurrent enrollment in CMPS 12B is required											
22773		CMPS-12M-02		Data Structures Lab	2		LAB	Th	12:00P-02:00P		J Baskin Engr 105	Mackey,W.F.	R
		Concurrent enrollment in CMPS 12B is required											
22774		CMPS-12M-03		Data Structures Lab	2		LAB	F	04:00P-06:00P		J Baskin Engr 105	Mackey,W.F.	R
		Concurrent enrollment in CMPS 12B is required											
23846		CMPS-80V-01		Worlds on Web	5	2	LEC	MWF	12:30P-01:40P		Kresge Clrm 321	Pang,A.	
13771		CMPS-101-01		Abstract Data Types	5		LEC	TTh	02:00P-03:45P		ClassroomUnit 001	Helmbold,D.P.	R
		Enroll in lecture and associated discussion section											
21158		CMPS-101-01A		Discussion			DIS	M	05:00P-06:10P		Engineer 2 192	Staff	
21159		CMPS-101-01B		Discussion			DIS	T	06:00P-07:10P		Engineer 2 194	Staff	
23358		CMPS-101-01C		Discussion			DIS	T	07:30P-08:40P		Engineer 2 194	Staff	
13772		CMPS-104A-01		Fund Compiler Des I	5		LEC	MWF	03:30P-04:40P		Engineer 2 194	Mackey,W.F.	R
13773		CMPS-104A-01A		Secondary Lab			LBS	M	12:00P-02:00P		J Baskin Engr 105	Staff	
13774		CMPS-104A-01B		Secondary Lab			LBS	Th	04:00P-06:00P		J Baskin Engr 105	Staff	
21337		CMPS-111-01		Intro Operating Sys	5		LEC	TTh	04:00P-05:45P		J Baskin Engr 372	Long,D.D.	R
21338		CMPS-111-01A		Discussion			DIS	M	06:30P-07:40P		Engineer 2 192	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23850		CMPS-130-01		Computational Model	5	LEC	MW		05:00P-06:45P		J Baskin Engr 372	Warmuth,M.	R
24506		CMPS-130-01A		Discussion		DIS	M		11:00A-12:10P		J Baskin Engr 169	Staff	
24507		CMPS-130-01B		Discussion		DIS	T		02:00P-03:10P		Porter Acad 246	Staff	
23851		CMPS-146-01		Game AI	5	LEC	M		05:00P-08:30P		Kresge Clrm 325	Funge,J.D.	R
13775		CMPS-160-01		Intro Comp Graphics	5	LEC	MWF		09:30A-10:40A		Engineer 2 192	Staff	R
		<i>Concurrent enrollment in CMPS 160L is required</i>											
21382		CMPS-160L-01		Comp Graphics Lab	2	LAB	T		10:00A-11:45A		J Baskin Engr 105	Staff	R
		<i>Concurrent enrollment in CMPS 160 is required</i>											
22471		CMPS-160L-02		Comp Graphics Lab	2	LAB	Th		02:00P-03:45P		J Baskin Engr 105	Staff	R
		<i>Concurrent enrollment in CMPS 160 is required</i>											
23444		CMPS-170-01		Game Design I	5	LEC	MWF		02:00P-03:10P		Eight Acad 242	Mateas,M.J.	R
		<i>Enroll in lecture and associated discussion section</i>											
24674		CMPS-170-01A		Discussion		DIS	F		11:00A-12:10P		Kresge Clrm 327	Staff	
24502		CMPS-182-01		Intro Database Mgmt	5	LEC	TTh		10:00A-11:45A		PhysSciences 114	Polyzotis,N.	R
24503		CMPS-182-01A		Secondary Lab		LBS	M		04:00P-05:45P		J Baskin Engr 105	Staff	
24504		CMPS-182-01B		Secondary Lab		LBS	T		02:00P-03:45P		J Baskin Engr 105	Staff	
24505		CMPS-182-01C		Secondary Lab		LBS	W		09:00A-10:45A		J Baskin Engr 105	Staff	
23852		CMPS-191-01		CmpSciTechnology	2	SEM	T		12:00P-01:45P		Thimann Lab 101	Lodha,S.K.	
		CMPS-193-XXX		Field Study	5	FLI			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		CMPS-194-XXX		Group Tutorial	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		CMPS-195-XXX		Sr Thesis Research	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		CMPS-198-XXX		Ind Stu Or Research	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
13836		CMPS-200-01		Research & Teaching	3	SEM	T		04:00P-05:45P		Kresge Clrm 327	Ferguson,F.J.	R
		<i>Taught in conjunction with CMPE 200</i>											
13837		CMPS-201-01		Analysis Algorithms	5	LEC	MWF		12:30P-01:40P		Engineer 2 194	Van Gelder,A.	R
22779		CMPS-217-01		Logic In Comp Sci	5	LEC	MWF		02:00P-03:10P		Engineer 2 194	Van Gelder,A.	R
23834		CMPS-240-01		Artificial Intellige	5	LEC	TTh		02:00P-03:45P		J Baskin Engr 372	Levinson,R.A.	
23853		CMPS-244-01		AI in Games	5	SEM	TTh		10:00A-11:45A		J Baskin Engr 169	Staff	R
22780		CMPS-277-01		Principles:Data Sys	5	LEC	TTh		12:00P-01:45P		Engineer 2 506	Kolaitis,P.	R
22468	Y	CMPS-280S-01		Seminar Comp Syst	2	SEM			**To Be Arranged**			Brandt,S.A.	
23447	Y	CMPS-280S-02		Seminar Comp Syst	2	SEM			**To Be Arranged**			Miller,E.L.	
24675		CMPS-280X-01		Expressive AI	2	SEM			**To Be Arranged**		Engineer 2 392	Mateas,M.J.	R
23854		CMPS-290G-01		Topics In Sw Engr	5	SEM	TTh		12:00P-01:45P		J Baskin Engr 169	Whitehead,E.J.	R
23855		CMPS-290S-01		Adv Topics:Comp Sys	5	SEM	TTh		10:00A-11:45A		Soc Sci 2 137	Brandt,S.A.	R
		CMPS-296-XXX		Masters Project	2	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		CMPS-297-XXX		Indep Stdy/Research	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		CMPS-299-XXX		Thesis Research	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											

## Digital Arts and New Media

21185		DANM-201-01		RecMethods&Approach	5	LEC	W		12:30P-03:30P		Porter Acad 245	Murray,S.E.	R
23856		DANM-202-01		Genealogies/Theories	5	LEC	Th		01:00P-04:00P		Porter Acad 245	Staff	R
22402		DANM-210-01		Project Design Studio	5	STU	M		12:30P-03:30P		Porter Acad 245	Staff	R
22514		DANM-212-01		Thesis Proposal	0	STU			**To Be Arranged**			Daniel,S.A.	R
24683		DANM-219-01		Electronic/Artmakng	3	STU	W		06:00P-09:00P		Porter Acad 140	Anderson,E.W.	R
22781		DANM-250B-01		Collab Resrch Proj	5	STU	Th		06:00P-09:00P		Porter Acad 120	Sack,W.	R
22782		DANM-250B-02		Collab Resrch Proj	5	STU	W		02:00P-05:00P		Porter Acad 245	Anderson,E.W.	R
22783		DANM-250B-03		Collab Resrch Proj	5	STU	M		02:00P-05:00P		TA Studio C102	Edmunds,K.	R

## Earth and Planetary Sciences

22301		EART-5-01		California Geology	5	N	LEC	TTh	12:00P-01:45P		Thim Lecture 003	Knittle,E.	
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Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
<i>Enroll in lecture and associated discussion section; concurrent enrollment in EART 5L is required for majors and minors</i>													
22302		EART-5-01A		Discussion		DIS	T		02:00P-03:00P		Earth&Marine D226	Staff	
22303		EART-5-01B		Discussion		DIS	T		03:00P-04:00P		Earth&Marine D226	Staff	
22304		EART-5-01C		Discussion		DIS	W		12:00P-01:00P		Earth&Marine D226	Staff	
22305		EART-5-01D		Discussion		DIS	W		01:30P-02:30P		Earth&Marine D226	Staff	
22306		EART-5-01E		Discussion		DIS	W		03:00P-04:00P		Earth&Marine D266	Staff	
22307		EART-5-01F		Discussion		DIS	W		04:30P-05:30P		Earth&Marine D226	Staff	
22536		EART-5-01G		Discussion		DIS	Th		09:00A-10:00A		Earth&Marine D226	Staff	
23857		EART-5-01H		Discussion		DIS	Th		10:30A-11:30A		Earth&Marine D226	Staff	
22308		EART-5L-01		Calif Geology Lab	1		LAB	T	06:00P-09:00P		Earth&Marine D226	Knittle,E.	
<i>Concurrent enrollment in EART 5 is required for majors and minors</i>													
22309		EART-5L-02		Calif Geology Lab	1		LAB	W	08:30A-11:30A		Earth&Marine D226	Knittle,E.	
<i>Concurrent enrollment in EART 5 is required for majors and minors</i>													
22544		EART-5L-03		Calif Geology Lab	1		LAB	Th	02:30P-05:30P		Earth&Marine D226	Knittle,E.	
<i>Concurrent enrollment in EART 5 is required for majors and minors</i>													
23858		EART-6-01		Concpnts Envrmtlism	5	N	LEC	TTh	12:00P-01:45P		N. Sci Annex 101	Chuang,P.Y.	
23859		EART-6-01A		Discussion		DIS	W		10:30A-11:30A		Earth&Marine D250	Staff	
23860		EART-6-01B		Discussion		DIS	T		02:00P-03:00P		Earth&Marine D250	Staff	
23861		EART-6-01C		Discussion		DIS	W		04:00P-05:00P		Earth&Marine D250	Staff	
23862		EART-7-01		History of Life	5	N	LEC	TTh	10:00A-11:45A		Thim Lecture 003	Koch,P.L.	
23863		EART-7-01A		Discussion		DIS	M		09:30A-10:30A		Earth&Marine D226	Staff	
23864		EART-7-01B		Discussion		DIS	M		11:00A-12:00P		Earth&Marine D226	Staff	
23865		EART-7-01C		Discussion		DIS	M		04:30P-05:30P		Earth&Marine D226	Staff	
23866		EART-7-01D		Discussion		DIS	M		06:00P-07:00P		Earth&Marine D226	Staff	
23867		EART-7-01E		Discussion		DIS	T		08:30A-09:30A		Earth&Marine D226	Staff	
23868		EART-7-01F		Discussion		DIS	T		12:00P-01:00P		Earth&Marine D266	Staff	
23869		EART-7-01G		Discussion		DIS	Th		12:00P-01:00P		Earth&Marine D226	Staff	
23870		EART-7-01H		Discussion		DIS	Th		01:00P-02:00P		Earth&Marine D226	Staff	
14338		EART-80A-01		Earth Catastrophes	5	2	LEC	MWF	09:30A-10:40A		Thim Lecture 003	Lay,T.	
23871		EART-80A-01A		Discussion		DIS	M		11:00A-12:00P		Earth&Marine D236	Staff	
23872		EART-80A-01B		Discussion		DIS	W		11:00A-12:00P		Earth&Marine D236	Staff	
23873		EART-80A-01C		Discussion		DIS	Th		04:00P-05:00P		Earth&Marine D236	Staff	
		EART-98-XXX		Internship	5		IND		**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
23874		EART-101-01		The Fossil Record	5		LEC	TTh	08:00A-09:45A		Earth&Marine D250	Clapham,M.E.	R
<i>Concurrent enrollment in EART 101L is required</i>													
23875		EART-101L-01		Fossil Record Lab	1		LAB	W	06:00P-09:00P		Earth&Marine D250	Clapham,M.E.	R
<i>Concurrent enrollment in EART 101 is required</i>													
21145		EART-104-01		Geologic Hazards	5		LEC	TTh	12:00P-01:45P		Earth&Marine D258	Schwartz,S.Y.	R
21146		EART-104-01A		Discussion		DIS	Th		02:00P-04:00P		Earth&Marine D258	Staff	
21147		EART-104-01B		Discussion		DIS	F		10:00A-12:00P		Earth&Marine D258	Staff	
14345		EART-109-01		Field Geology	5		LEC	TTh	10:00A-11:45A		Earth&Marine D258	Schwartz,H.L.	R
<i>Concurrent enrollment in EART 109L is required</i>													
14346		EART-109L-01		Field Geology Lab	2		LAB	W	09:00A-12:00P		Earth&Marine D258	Schwartz,H.L.	
<i>Concurrent enrollment in EART 109 is required</i>													
14347		EART-109L-02		Field Geology Lab	2		LAB	W	02:00P-05:00P		Earth&Marine D258	Schwartz,H.L.	
<i>Concurrent enrollment in EART 109 is required</i>													
14348		EART-110A-01		Evolution Of Earth	5		LEC	TTh	02:00P-03:45P		N. Sci Annex 101	Koch,P.L.	R
<i>Concurrent enrollment in EART 110L is required</i>													
14349		EART-110L-01		Evol of Earth Lab	2		LAB	W	06:00P-09:00P		Earth&Marine D226	Koch,P.L.	R
<i>Concurrent enrollment in EART 110A is required</i>													
14350		EART-110L-02		Evol of Earth Lab	2		LAB	Th	06:00P-09:00P		Earth&Marine D226	Koch,P.L.	R
<i>Concurrent enrollment in EART 110A is required</i>													
14351		EART-110L-03		Evol of Earth Lab	2		LAB	F	09:00A-12:00P		Earth&Marine D226	Koch,P.L.	R
<i>Concurrent enrollment in EART 110A is required</i>													
22006		EART-111-01		Math in Earth Science	5	Q	LEC	MW	12:30P-02:00P		Earth&Marine D236	Nimmo,W.H.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22007		EART-111-01A		Discussion		DIS	T		06:00P-08:00P		Earth&Marine D236	Staff	
22008		EART-111-01B		Discussion		DIS	F		09:30A-11:30A		Earth&Marine D236	Staff	
23876		EART-150-01		Structural Geology	5	LEC	TTh		10:00A-11:45A		Earth&Marine D250	Hourigan,J.K.	R
		<i>Concurrent enrollment in EART 150L is required</i>											
23877		EART-150L-01		Structural Geol Lab	2	LAB	Th		02:00P-05:00P		Earth&Marine D250	Hourigan,J.K.	R
		<i>Concurrent enrollment in EART 150 is required</i>											
23878		EART-150L-02		Structural Geol Lab	2	LAB	F		09:00A-12:00P		Earth&Marine D250	Hourigan,J.K.	R
		<i>Concurrent enrollment in EART 150 is required</i>											
14352		EART-190-01		Earth Sci Mentors	1	SEM	M		03:30P-04:40P		Earth&Marine D258	Staff	R
		EART-195-XXX		Senior Thesis	5	W	IND		**To Be Arranged**			Staff	
14380		EART-196A-01		Intro Teaching Sem	2	SEM	Th		04:30P-07:30P		Earth&Marine D258	Staff	R
		<i>Taught in conjunction with EART 203</i>											
		EART-196B-XXX		Teach Eart Sci/Univ	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		EART-196C-XXX		Teach Eart Sci/Univ	2	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		EART-198-XXX		Eart Sci Internship	5	FLI			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		EART-198F-XXX		Earth Sci Internship	2	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		EART-199-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		EART-199F-XXX		Tutorial	2	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
14449		EART-203-01		Intro Teaching Sem	2	LEC	Th		04:30P-07:30P		Earth&Marine D258	Staff	R
		<i>Taught in conjunction with EART 196A</i>											
14450		EART-205-01		Intro Graduate Sem	5	SEM	MW		11:00A-12:30P		Earth&Marine D250	Schwartz,S.Y.	R
24550	Y	EART-251-01		Photogrammetry	5	LEC			**To Be Arranged**			Staff	R
23879		EART-290E-01		Topics/Planetary Sci	5	SEM	TTh		02:00P-03:45P		Earth&Marine D236	Asphaug,E.	R
23881		EART-290H-01		Hydrogeology	5	SEM	MW		02:00P-03:30P		Earth&Marine D250	Fisher,A.T.	
14452		EART-292-01		Seminar	0	SEM	T		04:00P-05:45P		N. Sci Annex 101	Staff	
14453		EART-292-02		Seminar	0	SEM	F		03:30P-04:40P		Earth&Marine B214	Staff	
		EART-298-XXX		Eart Sci Internship	5	FLI			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											

## Economics

14621		ECON-1-01		Intro Microeconomic	5	S	LEC	MWF	03:30P-04:40P		ClassroomUnit 002	Gonzalez,J.H.	
		<i>Enroll in lecture and associated discussion section</i>											
14622		ECON-1-01A		Discussion			DIS	M	08:00A-09:10A		Engineer 2 194	Staff	
14623		ECON-1-01B		Discussion			DIS	T	08:30A-09:40A		Engineer 2 194	Staff	
14624		ECON-1-01C		Discussion			DIS	W	12:30P-01:40P		Engineer 2 192	Staff	
14625		ECON-1-01D		Discussion			DIS	Th	08:30A-09:40A		Engineer 2 192	Staff	
14626		ECON-1-01E		Discussion			DIS	F	08:00A-09:10A		Engineer 2 194	Staff	
14627		ECON-1-01F		Discussion			DIS	M	12:30P-01:30P		Engineer 2 194	Staff	
14628		ECON-1-01G		Discussion			DIS	T	04:00P-05:10P		PhysSciences 130	Staff	
14629		ECON-1-01H		Discussion			DIS	W	07:00P-08:10P		PhysSciences 130	Staff	
14630		ECON-1-01I		Discussion			DIS	Th	08:30A-09:30A		Engineer 2 194	Staff	
22570		ECON-1-01J		Discussion			DIS	F	11:00A-12:10P		Engineer 2 194	Staff	
14631		ECON-1-01K		Discussion			DIS	T	06:00P-07:10P		Engineer 2 192	Staff	
14632		ECON-1-01L		Discussion			DIS	Th	08:00P-09:10P		Engineer 2 192	Staff	
14633		ECON-2-01		Intro Macroeconomic	5	S	LEC	MWF	12:30P-01:40P		ClassroomUnit 002	Flannery,M.	
		<i>Enroll in lecture and associated discussion section</i>											
14634		ECON-2-01A		Discussion			DIS	M	09:30A-10:30A		PhysSciences 130	Staff	
22315		ECON-2-01B		Discussion			DIS	T	10:00A-11:10A		PhysSciences 130	Staff	
22316		ECON-2-01C		Discussion			DIS	W	08:00A-09:10A		Engineer 2 194	Staff	
21129		ECON-2-01D		Discussion			DIS	Th	04:00A-05:10A		PhysSciences 130	Staff	
14635		ECON-2-01E		Discussion			DIS	F	09:30A-10:40A		Engineer 2 194	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22317		ECON-2-01F		Discussion		DIS	M		07:00P-08:10P		PhysSciences 130	Staff	
22318		ECON-2-01G		Discussion		DIS	T		02:00P-03:10P		PhysSciences 130	Staff	
14636		ECON-2-01H		Discussion		DIS	W		07:00P-08:10P		Engineer 2 192	Staff	
22891		ECON-2-01I		Discussion		DIS	Th		04:00P-05:10P		PhysSciences 130	Staff	
22892		ECON-2-01J		Discussion		DIS	F		02:00P-03:10P		PhysSciences 130	Staff	
22893		ECON-2-01K		Discussion		DIS	T		08:00P-09:10P		Engineer 2 192	Staff	
23574		ECON-2-01L		Discussion		DIS	Th		06:00P-07:10P		Engineer 2 192	Staff	
14637		ECON-10A-01		Econ of Accounting	5	LEC	TTh		04:00P-05:45P		J Bask Aud 101	Shepherd,R.J.	
14638		ECON-10A-01A		Discussion		DIS	M		08:00A-09:10A		Soc Sci 2 141	Staff	
14639		ECON-10A-01B		Discussion		DIS	T		08:30A-09:40A		Soc Sci 2 141	Staff	
14640		ECON-10A-01C		Discussion		DIS	W		08:00A-09:10A		Soc Sci 2 141	Staff	
14641		ECON-10A-01D		Discussion		DIS	Th		08:30A-09:40A		Kresge Clrm 319	Staff	
14642		ECON-10A-01E		Discussion		DIS	F		09:30A-10:40A		Soc Sci 2 141	Staff	
14643		ECON-10A-01F		Discussion		DIS	M		07:00P-08:10P		Kresge Clrm 319	Staff	
14644		ECON-10A-01G		Discussion		DIS	T		08:00P-09:10P		Kresge Clrm 319	Staff	
22319		ECON-10A-01H		Discussion		DIS	W		02:00P-03:10P		Kresge Clrm 319	Staff	
22897		ECON-10A-01I		Discussion		DIS	Th		08:00P-09:10P		Kresge Clrm 319	Staff	
23565		ECON-10A-01J		Discussion		DIS	F		03:30P-04:40P		Soc Sci 2 141	Staff	
14645		ECON-10A-02		Econ of Accounting	5	LEC	MWF		08:00A-09:10A		Oakes Acad 105	Gusarson,D.D.	
14646		ECON-10A-02A		Discussion		DIS	M		02:00P-03:10P		Soc Sci 2 141	Staff	
14647		ECON-10A-02B		Discussion		DIS	M		03:30P-04:40P		Soc Sci 2 141	Staff	
22320		ECON-10A-02C		Discussion		DIS	T		06:00P-07:10P		Soc Sci 2 141	Staff	
22321		ECON-10A-02D		Discussion		DIS	T		07:30P-08:40P		Soc Sci 2 141	Staff	
22322		ECON-10A-02E		Discussion		DIS	W		03:30P-04:40P		Kresge Clrm 319	Staff	
23639		ECON-10A-02F		Discussion		DIS	W		05:00P-06:10P		Cowell Acad 216	Staff	
23882		ECON-10A-02G		Discussion		DIS	W		06:30P-07:30P		Cowell Acad 216	Staff	
23883		ECON-10A-02H		Discussion		DIS	Th		08:30A-09:40A		Cowell Acad 216	Staff	
23884		ECON-10A-02I		Discussion		DIS	F		02:00P-03:10P		Kresge Clrm 319	Staff	
23885		ECON-10A-02J		Discussion		DIS	F		03:30P-04:40P		Kresge Clrm 319	Staff	
14648		ECON-11A-01		Math Methd for Econ	5	NQ	LEC	MWF	03:30P-04:40P		J Baskin Engr 152	Katznelson,J.R.	R
				<i>Also offered as AMS 11A</i>									
14649		ECON-11A-01A		Discussion		DIS	T		08:00P-09:10P		J Baskin Engr 165	Staff	
14650		ECON-11A-01B		Discussion		DIS	Th		08:30A-09:40A		J Baskin Engr 372	Staff	
14651		ECON-11A-01C		Discussion		DIS	T		06:00P-07:10P		J Baskin Engr 372	Staff	
14652		ECON-11A-01D		Discussion		DIS	W		08:00A-09:10A		J Baskin Engr 372	Staff	
21814		ECON-11A-01E		Discussion		DIS	W		11:00A-12:10P		J Baskin Engr 372	Staff	
21815		ECON-11A-01F		Discussion		DIS	W		12:30P-01:30P		J Baskin Engr 372	Staff	
14653		ECON-11B-01		Math Methd for Econ	5	NQ	LEC	MWF	12:30P-01:40P		ClassroomUnit 001	Katznelson,J.R.	R
				<i>Also offered as AMS 11B</i>									
14654		ECON-11B-01A		Discussion		DIS	T		08:30A-09:40A		J Baskin Engr 372	Staff	
14655		ECON-11B-01B		Discussion		DIS	Th		08:00P-09:10P		J Baskin Engr 165	Staff	
14656		ECON-11B-01C		Discussion		DIS	W		08:00A-09:10A		J Baskin Engr 165	Staff	
14657		ECON-11B-01D		Discussion		DIS	W		05:00P-06:10P		J Baskin Engr 165	Staff	
21816		ECON-11B-01E		Discussion		DIS	W		07:00P-08:10P		J Baskin Engr 165	Staff	
21817		ECON-11B-01F		Discussion		DIS	Th		06:00P-07:10P		J Baskin Engr 372	Staff	
14664		ECON-100A-01		Intermed Microecon	5	LEC	MWF		08:00A-09:10A		J Bask Aud 101	Yan,H.	R
14665		ECON-100A-01A		Discussion		DIS	T		06:00P-07:10P		Merrill Acad 130	Staff	
14666		ECON-100A-01B		Discussion		DIS	Th		06:00P-07:10P		Merrill Acad 130	Staff	
14667		ECON-100A-01C		Discussion		DIS	T		08:00P-09:10P		Merrill Acad 130	Staff	
23891		ECON-100A-01D		Discussion		DIS	W		05:00P-06:10P		Kresge Clrm 325	Staff	
23892		ECON-100A-01E		Discussion		DIS	Th		08:00P-09:10P		Cowell Acad 113	Staff	
23893		ECON-100A-01F		Discussion		DIS	F		02:00P-03:10P		Steven Acad 152	Staff	
22900		ECON-100A-02		Intermed Microecon	5	LEC	MWF		11:00A-12:10P		Kresge Clrm 321	Oprea,R.D.	R
22901		ECON-100A-02A		Discussion		DIS	W		08:00A-09:10A		Steven Acad 152	Staff	
22902		ECON-100A-02B		Discussion		DIS	Th		08:00P-09:10P		Merrill Acad 130	Staff	
22903		ECON-100A-02C		Discussion		DIS	T		06:00P-07:10P		Soc Sci 1 161	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22904		ECON-100A-02D		Discussion		DIS	Th		04:00P-05:10P		Soc Sci 1 161	Staff	
22905		ECON-100A-02E		Discussion		DIS	W		02:00P-03:10P		Steven Acad 152	Staff	
23578		ECON-100A-02F		Discussion		DIS	F		08:00A-09:10A		Steven Acad 152	Staff	
10001		ECON-100B-01		Intermed Macroecon	5	LEC	MWF		09:30A-10:40A		J Bask Aud 101	Kletzer,K.M.	R
14668		ECON-100B-01A		Discussion		DIS	M		12:30P-01:40P		J Baskin Engr 372	Staff	
14669		ECON-100B-01B		Discussion		DIS	T		08:30A-09:40A		PhysSciences 140	Staff	
14670		ECON-100B-01C		Discussion		DIS	W		07:00P-08:10P		Cowell Acad 113	Staff	
14671		ECON-100B-01D		Discussion		DIS	Th		12:00P-01:10P		PhysSciences 140	Staff	
14672		ECON-100B-01E		Discussion		DIS	T		04:00P-05:10P		PhysSciences 140	Staff	
14673		ECON-100B-01F		Discussion		DIS	Th		06:00P-07:10P		PhysSciences 140	Staff	
23894		ECON-100M-01		Int Microecon: Math	5	LEC	MWF		02:00P-03:10P		Soc Sci 1 161	Yan,H.	R
22323		ECON-101-01		Managerial Econ	5	LEC	MWF		02:00P-03:10P		ClassroomUnit 001	Gonzalez,J.H.	R
22324		ECON-101-01A		Discussion		DIS	M		08:00A-09:10A		Steven Acad 152	Staff	
22906		ECON-101-01B		Discussion		DIS	T		08:00P-09:10P		Soc Sci 1 161	Staff	
23895		ECON-101-01C		Discussion		DIS	Th		06:00P-07:10P		Kresge Clrm 325	Staff	
23896		ECON-101-01D		Discussion		DIS	W		08:00A-09:10A		Merrill Acad 130	Staff	
24580		ECON-109-01		Business Ethics	5	W	LEC	MWF	11:00A-12:10P		Merrill Acad 102	White,J.A.	R
14674		ECON-111A-01		Intermed Account I	5	LEC	TTh		12:00P-01:45P		J Bask Aud 101	Shepherd,R.J.	R
		<i>Taught in conjunction with ECON 209A</i>											
14675		ECON-111A-01A		Discussion		DIS	M		09:30A-10:40A		Soc Sci 2 141	Staff	
14676		ECON-111A-01B		Discussion		DIS			12:30P-01:40P		Cowell Acad 216	Staff	
14677		ECON-111A-01C		Discussion		DIS	T		08:30A-09:40A		Cowell Acad 216	Staff	
14678		ECON-111A-01D		Discussion		DIS	W		02:00P-03:10P		Soc Sci 2 141	Staff	
14679		ECON-111A-01E		Discussion		DIS	W		03:30P-04:40P		Soc Sci 2 141	Staff	
14680		ECON-111A-01F		Discussion		DIS	W		07:00P-08:10P		Kresge Clrm 319	Staff	
14681		ECON-111A-01G		Discussion		DIS	Th		06:00P-07:10P		Cowell Acad 216	Staff	
14682		ECON-111A-01H		Discussion		DIS	Th		07:30P-08:40P		Cowell Acad 216	Staff	
14683		ECON-111A-01I		Discussion		DIS	F		08:00A-09:10A		Soc Sci 2 141	Staff	
22910		ECON-111A-01J		Discussion		DIS	F		11:00A-12:10P		Cowell Acad 216	Staff	
14684		ECON-113-01		Intro Econometrics	5	Q	LEC	MWF	12:30P-01:40P		Thim Lecture 003	Spearot,A.C.	R
14685		ECON-113-01A		Discussion		DIS	M		05:00P-06:10P		PhysSciences 140	Staff	
14686		ECON-113-01B		Discussion		DIS	T		08:30A-09:40A		Cowell Acad 113	Staff	
22325		ECON-113-01C		Discussion		DIS	W		09:30A-10:40A		PhysSciences 136	Staff	
14687		ECON-113-01D		Discussion		DIS	Th		08:00P-09:10P		Soc Sci 1 161	Staff	
14688		ECON-113-01E		Discussion		DIS	T		04:00P-05:10P		Soc Sci 1 161	Staff	
22326		ECON-113-01F		Discussion		DIS	Th		06:00P-07:10P		Soc Sci 1 161	Staff	
24541		ECON-117A-01		Income Tax Factors	5	LEC	MWF		09:30A-10:40A		Oakes Acad 105	Gusarson,D.D.	R
24542		ECON-117A-01A		Discussion		DIS	M		12:30P-01:40P		Soc Sci 2 363	Staff	
24543		ECON-117A-01B		Discussion		DIS	M		03:30P-04:40P		Soc Sci 2 363	Staff	
24544		ECON-117A-01C		Discussion		DIS	T		06:00P-07:10P		Cowell Acad 216	Staff	
24545		ECON-117A-01D		Discussion		DIS	T		07:30P-08:40P		Cowell Acad 216	Staff	
24546		ECON-117A-01E		Discussion		DIS	W		05:00P-06:10P		Oakes Acad 101	Staff	
24547		ECON-117A-01F		Discussion		DIS	Th		08:30A-09:40A		Soc Sci 2 171	Staff	
24548		ECON-117A-01G		Discussion		DIS	F		12:30P-01:40P		Cowell Acad 216	Staff	
24627		ECON-117A-01H		Discussion		DIS	F		02:00P-03:10P		Cowell Acad 216	Staff	
22033		ECON-120-01		Economic Developmnt	5	E	LEC	TTh	04:00P-05:45P		Merrill Acad 102	Robinson,J.M.	R
22128		ECON-120-01A		Discussion		DIS	M		11:00A-12:10P		J Baskin Engr 372	Staff	
22129		ECON-120-01B		Discussion		DIS	T		06:00P-07:10P		PhysSciences 140	Staff	
22130		ECON-120-01C		Discussion		DIS	W		02:00P-03:10P		PhysSciences 140	Staff	
22330		ECON-120-01D		Discussion		DIS	F		09:30A-10:40A		PhysSciences 136	Staff	
24581		ECON-125-01		Econ History Of US	5	LEC	MWF		03:30P-04:40P		Merrill Acad 102	Elbaum,B.L.	R
24582		ECON-125-01A		Discussion		DIS	T		06:00P-07:10P		Kresge Clrm 325	Staff	
24583		ECON-125-01B		Discussion		DIS	Th		08:00P-09:10P		Kresge Clrm 325	Staff	
24584		ECON-125-01C		Discussion		DIS	T		08:00P-09:10P		Cowell Acad 113	Staff	
24585		ECON-125-01D		Discussion		DIS	F		08:00A-09:10A		Cowell Acad 113	Staff	
23904		ECON-128-01		Povrty/Public Policy	5	WE	LEC	TTh	08:00A-09:45A		Cowell Clrm 131	Staff	R

Also offered as LGST 128

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22915		ECON-133-01		Security Markets	5	LEC	T		06:00P-09:45P		J Bask Aud 101	Sury,S.M.	R
22916		ECON-133-01A		Discussion		DIS	W		08:00A-09:10A		Merrill Acad 132	Staff	
22917		ECON-133-01B		Discussion		DIS	T		08:30A-09:40A		Kresge Clrm 325	Staff	
23906		ECON-133-01C		Discussion		DIS	M		05:00P-06:10P		Merrill Acad 132	Staff	
23907		ECON-133-01D		Discussion		DIS	Th		06:00P-07:10P		Merrill Acad 132	Staff	
21130		ECON-136-01		Business Strategy	5	LEC	MWF		09:30A-10:40A		J Baskin Engr 152	Flannery,M.	R
23908		ECON-136-01A		Discussion		DIS	T		08:00P-09:10P		Soc Sci 1 161	Staff	
23909		ECON-136-01B		Discussion		DIS	M		02:00P-03:10P		Steven Acad 152	Staff	
23910		ECON-136-01C		Discussion		DIS	F		08:00A-09:10A		Merrill Acad 130	Staff	
23911		ECON-136-01D		Discussion		DIS	Th		08:30A-09:40A		Kresge Clrm 325	Staff	
21131		ECON-136L-01		Busness Stratgy Lab	2	LAB			**To Be Arranged**			Flannery,M.	R
21818		ECON-138-01		Tecnology & Innovat	5	LEC	MWF		12:30P-01:40P		Soc Sci 2 075	Staff	R
14689		ECON-140-01		International Trade	5	LEC	TTh		12:00P-01:45P		Soc Sci 2 071	Poole,J.	R
22918		ECON-140-01A		Discussion		DIS	F		12:30P-01:40P		Engineer 2 192	Staff	
22919		ECON-140-01B		Discussion		DIS	W		05:00P-06:10P		Engineer 2 192	Staff	
23912		ECON-143-01		InternatnlEconPolicy	5	LEC	TTh		10:00A-11:45A		Soc Sci 1 110	Hutchison,M.M.	R
22920		ECON-148-01		Latin Am Economies	5	LEC	TTh		08:00A-09:45A		Soc Sci 1 110	Poole,J.	R
21819		ECON-150-01		Public Finance	5	LEC	MWF		11:00A-12:10P		Engineer 2 192	Marion,J.	R
				<i>Taught in conjunction with ECON 250</i>									
14690		ECON-162-01		Legal Env Business	5	LEC	MW		05:00P-06:45P		PhysSciences 110	Bosso,R.E.	R
				<i>Also offered as LGST 162</i>									
23913		ECON-166A-01		Game Theory /Apps I	5	LEC	MWF		02:00P-03:10P		J Baskin Engr 152	Friedman,D.	R
23914		ECON-166A-01A		Discussion		DIS	T		08:30A-09:40A		PhysSciences 130	Staff	
23915		ECON-166A-01B		Discussion		DIS	Th		04:00P-05:10P		Engineer 2 192	Staff	
23916		ECON-171-01		Nat Resource Econ	5	LEC	TTh		10:00A-11:45A		PhysSciences 110	McCalman,P.	R
14691	Y	ECON-186-01		Mathematical Mthds	5	LEC			**To Be Arranged**			Staff	
				<i>See Enrollment Conditions for instructions</i>									
		ECON-193-XXX		Field Study	5	FLI			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
14832		ECON-200-01		Microecon Analysis	5	LEC	MWF		08:00A-09:10A		N. Sci Annex 102	Oprea,R.D.	
14833		ECON-204A-01		Adv Microecon Theor	5	LEC	TTh		08:00A-09:45A		J Baskin Engr 165	McCalman,P.	
14834		ECON-205A-01		Adv Macroecon Theor	5	LEC	MW		05:00P-06:45P		J Baskin Engr 169	Kletzer,K.M.	
14835		ECON-209A-01		Accounting I	5	LEC	TTh		12:00P-01:45P		J Bask Aud 101	Shepherd,R.J.	R
				<i>Taught in conjunction with ECON 111A</i>									
14836		ECON-210B-01		Math Methods Econ	5	LEC			**To Be Arranged**			Costain,J.S.	
23917		ECON-211A-01		Adv Econometrics	5	LEC	TTh		04:00P-05:45P		Soc Sci 2 137	Cheng,A.	
14837		ECON-211C-01		Empirical Research	5	LEC	TTh		12:00P-01:45P		Crown Clrm 105	Cheng,A.	
14863		ECON-216-01		Applied Economet I	5	LEC	TTh		12:00P-01:45P		Merrill Acad 132	Fairlie,R.W.	
22042		ECON-234-01		Fin.Instit & Market	5	LEC	TTh		02:00P-03:45P		Porter Acad 250	Staff	R
14864		ECON-240A-01		Adv Intl Trade Thy	5	LEC	MW		05:00P-06:45P		Soc Sci 2 165	Spearot,A.C.	R
14865		ECON-241A-01		Adv Intl Finance I	5	LEC	TTh		04:00P-05:45P		J Baskin Engr 169	Hutchison,M.M.	
21820		ECON-250-01		Adv Public Finance	5	SEM	MWF		11:00A-12:10P		Engineer 2 192	Marion,J.	
				<i>Taught in conjunction with ECON 150</i>									
14891		ECON-294A-01		Applied Econ Lab	2	LAB	TTh		04:00P-05:45P		Cowell Acad 222	Fairlie,R.W.	
		ECON-295A-XXX		Directed Reading	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		ECON-295B-XXX		Directed Reading	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
14969		ECON-296A-01		3rd Year Ph.D. Sem	5	SEM	MW		05:00P-06:45P		Soc Sci 2 167	Kletzer,K.M.	R
<b>Education</b>													
23131	Y	EDUC-50B-01		CAL Teach 1: Math	2	SEM	T		04:00P-05:45P		Thimann Lab 391	Staff	
23132	Y	EDUC-50C-01		CAL Teach 1: Science	2	SEM	M		05:00P-06:45P		Thimann Lab 391	Staff	
23133		EDUC-75B-01		CAL Teach 2: Math	2	SEM	Th		04:00P-05:45P		Thimann Lab 391	Staff	R
23134		EDUC-75C-01		CAL Teach2: Science	2	SEM	W		05:00P-06:45P		Thimann Lab 391	Staff	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22346		EDUC-92A-01		Evolution Of Educ	5	S	LEC	MW	05:00P-06:45P		Humn Lecture 206	Glass,R.	
		<i>Enroll in lecture and associated discussion section</i>											
24559		EDUC-92A-01A		Discussion			DIS	Th	08:00A-09:10A		Crown Clrm 104	Staff	
24560		EDUC-92A-01B		Discussion			DIS	Th	12:00P-01:10P		Soc Sci 2 137	Staff	
24561		EDUC-92A-01C		Discussion			DIS	Th	06:00P-07:10P		Crown Clrm 104	Staff	
24562		EDUC-92A-01D		Discussion			DIS	Th	07:30P-08:40P		Crown Clrm 104	Staff	
24563		EDUC-92A-01E		Discussion			DIS	F	08:00A-09:10A		Crown Clrm 104	Staff	
24564		EDUC-92A-01F		Discussion			DIS	F	09:30A-10:40A		Crown Clrm 105	Staff	
24565		EDUC-92A-01G		Discussion			DIS	F	12:30P-01:40P		Crown Clrm 104	Staff	
24566		EDUC-92A-01H		Discussion			DIS	F	02:00P-03:10P		Crown Clrm 104	Staff	
24567		EDUC-92A-01I		Discussion			DIS	F	03:30P-04:40P		Crown Clrm 104	Staff	
24568		EDUC-92A-01J		Discussion			DIS	F	08:00A-09:10A		Crown Clrm 105	Staff	
24569		EDUC-92A-01K		Discussion			DIS	Th	10:00A-11:10A		Crown Clrm 105	Staff	
24570		EDUC-92A-01L		Discussion			DIS	Th	12:00P-01:10P		Cowell Acad 216	Staff	
24571		EDUC-92A-01M		Discussion			DIS	Th	06:00P-07:10P		Crown Clrm 105	Staff	
24572		EDUC-92A-01N		Discussion			DIS	Th	07:30P-08:40P		Crown Clrm 105	Staff	
24573		EDUC-92A-01O		Discussion			DIS	Th	08:00A-09:10A		Crown Clrm 105	Staff	
24574		EDUC-92A-01P		Discussion			DIS	F	09:30A-10:40A		Soc Sci 2 137	Staff	
24575		EDUC-92A-01Q		Discussion			DIS	F	11:00A-12:10P		Crown Clrm 104	Staff	
24576		EDUC-92A-01R		Discussion			DIS	F	12:30P-01:40P		Crown Clrm 105	Staff	
		EDUC-99-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
23919		EDUC-160-01		Educ Reform Issues	5		LEC	TTh	02:00P-03:45P		Soc Sci 2 179	Ogawa,R.T.	R
22926		EDUC-170-01		School/Asian Cultur	5		SEM	TTh	12:00P-01:45P		Engineer 2 192	Gordon,J.A.	R
22017		EDUC-180-01		Intro To Teaching	5		LEC	TTh	06:00P-07:45P		Steven Acad 150	Tellez,K.T.	R
		<i>Enroll in lecture and associated discussion section</i>											
24628		EDUC-180-01A		Discussion			DIS	W	05:00P-06:10P		Soc Sci 2 363	Staff	
24629		EDUC-180-01B		Discussion			DIS	W	05:00P-06:10P		Soc Sci 2 171	Staff	
24630		EDUC-180-01C		Discussion			DIS	W	06:30P-07:40P		Soc Sci 2 171	Staff	
24631		EDUC-180-01D		Discussion			DIS	F	08:00A-09:10A		Soc Sci 2 363	Staff	
24632		EDUC-180-01E		Discussion			DIS	F	09:30A-10:40A		Soc Sci 2 363	Staff	
24633		EDUC-180-01F		Discussion			DIS	F	11:00A-12:10P		Soc Sci 2 363	Staff	
23920		EDUC-181-01		Race, Class, Cultur	5	E	LEC	MWF	03:30P-04:40P		Soc Sci 2 179	Nygreen,K.	R
		EDUC-194-XXX		Group Projects	5		IND		**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		EDUC-198-XXX		Indep Field Study	5		FLI		**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		EDUC-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
24429		EDUC-200-01		Beg Student Teach	5		LEC	TTh	12:00P-01:45P		Hum & Soc Sci 359	Bilardello,J.A.	R
24430		EDUC-200-02		Beg Student Teach	5		LEC	TTh	12:00P-01:45P		Merrill Acad 130	Huebner,B.A.	R
24431		EDUC-200-03		Beg Student Teach	5		LEC	TTh	12:00P-01:45P		Hum & Soc Sci 259	Billey,F.	R
24432		EDUC-200-04		Beg Student Teach	5		LEC	TTh	04:00P-05:45P		Hum & Soc Sci 259	Melville,M.T.	R
24433		EDUC-200-05		Beg Student Teach	5		LEC	T	05:30P-07:15P		Hum & Soc Sci 260	Roe,S.	R
								W	05:30P-07:15P		Hum & Soc Sci 359		
24434		EDUC-200-06		Beg Student Teach	5		LEC	TTh	04:00P-05:45P			Baker,L.M.	R
24508		EDUC-204-01		English Development	5		SEM	M	02:00P-05:00P		Hum & Soc Sci 359	Bunch,G.	R
24509		EDUC-204-02		English Development	5		SEM	M	05:30P-08:30P		Hum & Soc Sci 359	Staff	R
24435		EDUC-211-01		TopicsElemEducation	2		LEC		**To Be Arranged**			Staff	R
24436		EDUC-211-02		TopicsElemEducation	2		LEC		**To Be Arranged**			Staff	R
24437		EDUC-220-01		Reading & Lang Arts	5		LEC	TTh	02:00P-03:45P		Hum & Soc Sci 359	Pease-Alvarez,L.	R
24438		EDUC-220-02		Reading & Lang Arts	5		LEC	TTh	04:00P-05:45P		Hum & Soc Sci 359	Pease-Alvarez,L.	R
24439		EDUC-222-01		Math Learn & Teach	5		LEC	MW	04:00P-05:45P		Hum & Soc Sci 259	Staff	R
24440		EDUC-222-02		Math Learn & Teach	5		LEC	MW	06:00P-07:45P		Hum & Soc Sci 259	Staff	R
24441		EDUC-226-01		English Teaching	5		SEM	TTh	02:00P-03:45P		Hum & Soc Sci 260	Olsen,B.	R
24442		EDUC-228-01		Math Education	5		LEC	MW	02:00P-03:45P		Hum & Soc Sci 259	Moschkovich,J.N.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24443		EDUC-230-01		Sci Ed:Resrch/Pract	5	LEC	TTh		02:00P-03:45P		Hum & Soc Sci 259	Ash,D.B.	R
24444		EDUC-232-01		Social Science	5	SEM	W		02:00P-05:00P		Hum & Soc Sci 359	Martin,D.A.	R
24445		EDUC-235-01		Intr Educat Inquiry	5	SEM	T		10:00A-01:00P		Hum & Soc Sci 260	Ogawa,R.T.	R
24589		EDUC-254-01		Paradigms Ed Resrch	5	SEM	F		12:00P-03:00P		Soc Sci I 239	Nygreen,K.	R
22114		EDUC-260A-01		Math Educ & Latinos	2	SEM	M		10:00A-11:30A		Soc Sci I 239	Moschkovich,J.N.	R
23346		EDUC-261-01		Think,Learn,Teach	5	SEM	Th		09:30A-12:30P		Hum & Soc Sci 260	Scott,J.A.	R
23921		EDUC-269A-01		Doctoral Proseminar	2	SEM	W		02:30P-04:30P		Soc Sci I 239	Glass,R.	R
21170		EDUC-270A-01		2nd Yr Prof Dev Sem	2	SEM	W		12:30P-02:00P		Soc Sci I 239	Scott,J.A.	R
24446		EDUC-272-01		Sociolinguistics/Educ	5	SEM	T		09:30A-12:30P		Soc Sci I 239	Olsen,B.	R
22927		EDUC-275J-01		Res Sem: Disrt 279B	5	SEM			**To Be Arranged**		CalStateMontereyBay	Staff	R
22928		EDUC-279B-01		Dissert Super/EdD	5	SEM			**To Be Arranged**			Ogawa,R.T.	R
23517		EDUC-279B-02		Dissert Super/EdD	5	SEM			**To Be Arranged**			Bartlett,L.	R
23518		EDUC-279B-03		Dissert Super/EdD	5	SEM			**To Be Arranged**			Wells,C.G.	R
23519		EDUC-279B-04		Dissert Super/EdD	5	SEM			**To Be Arranged**			Glass,R.	R
23520		EDUC-279B-05		Dissert Super/EdD	5	SEM			**To Be Arranged**		CalStateMontereyBay	Staff	R
24447		EDUC-291-01		Comp Intl Educatn	5	SEM	W		02:00P-05:00P		Hum & Soc Sci 260	Gordon,J.A.	R
		EDUC-297-XXX		Indep Study	5	IND			**To Be Arranged**			Staff	
		See sponsoring agency for class number											
		EDUC-299-XXX		Thesis Research	5	IND			**To Be Arranged**			Staff	
		See sponsoring agency for class number											

## Electrical Engineering

15290		EE-70-01		Intro Elec Circuits	5	LEC	TTh		04:00P-05:45P		PhysSciences 114	Liu,W.	R
		Concurrent enrollment in EE 70L is required											
15291		EE-70L-01		Intr Elec Circ Lab	1	LAB			**To Be Arranged**		J Baskin Engr 150	Liu,W.	R
		Concurrent enrollment in EE 70 is required											
22929		EE-70L-02		Intr Elec Circ Lab	1	LAB			**To Be Arranged**		J Baskin Engr 150	Liu,W.	R
		Concurrent enrollment in EE 70 is required											
23922		EE-70L-03		Intr Elec Circ Lab	1	LAB			**To Be Arranged**		J Baskin Engr 150	Liu,W.	R
		Concurrent enrollment in EE 70 is required											
23923		EE-70L-04		Intr Elec Circ Lab	1	LAB			**To Be Arranged**		J Baskin Engr 150	Liu,W.	R
		Concurrent enrollment in EE 70 is required											
23924		EE-70L-05		Intr Elec Circ Lab	1	LAB			**To Be Arranged**		J Baskin Engr 150	Liu,W.	R
		Concurrent enrollment in EE 70 is required											
23409		EE-80S-01		Sustn Eng/Pract	5	7	LEC	MWF	12:30P-01:40P		J Baskin Engr 152	Shakouri,A.	
		Enroll in lecture and associated discussion section											
23457		EE-80S-01A		Discussion			DIS	M	11:00A-12:10P		Engineer 2 194	Staff	
23458		EE-80S-01B		Discussion			DIS	M	03:30P-04:40P		Earth&Marine B210	Staff	
23459		EE-80S-01C		Discussion			DIS	W	09:30A-10:40A		Engineer 2 194	Staff	
23925		EE-80S-01D		Discussion			DIS	F	08:00A-09:10A		J Baskin Engr 372	Staff	
22428		EE-103-01		Signals & Systems	5		LEC	MW	05:00P-06:45P		Kresge Clrm 323	Friedlander,B.	R
		Enroll in lecture and associated discussion section											
23557		EE-103-01A		Discussion			DIS	T	08:30A-09:40A		J Baskin Engr 169	Staff	
23926		EE-103-01B		Discussion			DIS	F	11:00A-12:10P		J Baskin Engr 169	Staff	
23826	Y	EE-123A-01		Engr Design Proj I	5		LEC	TTh	02:00P-03:45P		PhysSciences 136	Chan,P.K. Vesecky,J.F.	
		Also offered as CMPE 123A											
23927		EE-130-01		Optoelect/Photonics	5		LEC	MWF	02:00P-03:10P		J Baskin Engr 169	Gu,C.X.	R
		Concurrent enrollment in EE 130L is required: taught in conjunction with EE 230											
23929		EE-130L-01		Optoelectronics Lab	1		LAB		**To Be Arranged**		J Baskin Engr 148	Gu,C.X.	R
		Concurrent enrollment in EE 130 is required											
21133		EE-145-01		Props Of Materials	5		LEC	TTh	10:00A-11:45A		Engineer 2 192	Kobayashi,N.P.	R
		Concurrent enrollment in EE 145L is required											
23600		EE-145-01A		Discussion			DIS	W	08:00A-09:10A		Engineer 2 192	Staff	
21134		EE-145L-01		Props Of Matrlns Lab	1		LAB	T	04:00P-06:00P		TBA	Kobayashi,N.P.	R
		Concurrent enrollment in EE 145 is required											
22930		EE-145L-02		Props Of Matrlns Lab	1		LAB	W	04:00P-06:00P		TBA	Kobayashi,N.P.	R
		Concurrent enrollment in EE 145 is required											

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23601		EE-145L-03		Props Of Matrils Lab	1	LAB	Th		04:00P-06:00P		TBA	Kobayashi,N.P.	R
23290		EE-172-01		Adv Analog Circuits	5	LEC	MW		05:00P-06:45P		Porter Acad 249	Pedrotti,K.	R
<i>Taught in conjunction with EE 221</i>													
23930		EE-215-01		MEMS Design	5	LEC	TTh		02:00P-03:45P		J Baskin Engr 165	Kubby,J.A.	R
22931		EE-221-01		Adv Analog Circuits	5	LEC	MW		05:00P-06:45P		Porter Acad 249	Pedrotti,K.	R
<i>Taught in conjunction with EE 172</i>													
23928		EE-230-01		Optical Fiber Comm	5	LEC	MWF		02:00P-03:10P		J Baskin Engr 169	Gu,C.X.	R
<i>Taught in conjunction with EE 130</i>													
23932		EE-232-01		Quantum Electronics	5	LEC	TTh		10:00A-11:45A		Porter Acad 241	Shakouri,A.	R
23933		EE-250-01		Digital Signal Proc	5	LEC	TTh		12:00P-01:45P		J Baskin Engr 156	Narasimhan,R.K.	
23934		EE-250-50		Digital Signal Proc	5	LEC	TTh		12:00P-01:45P		SiliconValleyCtr	Narasimhan,R.K.	
23935		EE-262-01		Stat Signal Process	5	LEC	TTh		02:00P-03:45P		J Baskin Engr 156	Milanfar,P.	R
23936		EE-262-50		Stat Signal Process	5	LEC	TTh		02:00P-03:45P		SiliconValleyCtr	Milanfar,P.	R
23937		EE-280B-01		Intgr Bioelect Sem	2	SEM			**To Be Arranged**		Engineer 2 481	Liu,W.	
22545		EE-280M-01		MEMS Seminar	2	SEM			**To Be Arranged**		J Baskin Engr 350D	Kubby,J.A.	R
22548		EE-2800-01		Applied Optics	2	SEM			**To Be Arranged**		J Baskin Engr 046	Schmidt,H.	R
23383		EE-280Q-01		Quantm/Nanoelctrncs	2	SEM			**To Be Arranged**		J Baskin Engr 330	Shakouri,A.	R

### Environmental Studies

15424		ENVS-24-01		General Ecology	5	N	LEC	TTh	12:00P-01:45P		Media Theater M110	Washburn,J.O.	
<i>Enroll in lecture and associated discussion section</i>													
15425		ENVS-24-01A		Discussion			DIS	T	09:00A-10:10A		ISB 221	Staff	
15426		ENVS-24-01B		Discussion			DIS	T	10:30A-11:40A		ISB 221	Staff	
15427		ENVS-24-01C		Discussion			DIS	T	02:00P-03:10P		ISB 221	Staff	
15428		ENVS-24-01D		Discussion			DIS	W	12:30P-01:40P		ISB 221	Staff	
15429		ENVS-24-01E		Discussion			DIS	W	02:00P-03:10P		ISB 221	Staff	
15430		ENVS-24-01F		Discussion			DIS	Th	09:00A-10:10A		ISB 221	Staff	
21717		ENVS-24-01G		Discussion			DIS	Th	10:30A-11:40A		ISB 221	Staff	
21718		ENVS-24-01H		Discussion			DIS	Th	02:00P-03:10P		ISB 221	Staff	
23432		ENVS-24-01I		Discussion			DIS	F	09:30A-10:40A		ISB 221	Staff	
23433		ENVS-24-01J		Discussion			DIS	F	11:00A-12:10P		ISB 221	Staff	
21138		ENVS-80B-01		Forecast Globl Warm	5	7	LEC	TTh	10:00A-11:45A		J Baskin Engr 152	Loik,M.E.	
		ENVS-83-XXX		Internship	5		FLI		**To Be Arranged**			Staff	
21922		ENVS-91F-01		Community /Agroecolgy	2		SEM	Th	04:00P-07:00P		Lower Quarry	Gliessman,S.R.	
<i>Taught in conjunction with ENVS 191F</i>													
15483		ENVS-100-01		Ecology and Society	5		LEC	TTh	02:00P-03:45P		Earth&Marine B206	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100L is required</i>													
15484		ENVS-100L-01		Ecol & Soc Writ Lab	2	W	LAB	T	10:00A-11:45A		Nat Sci 2 411	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
15485		ENVS-100L-02		Ecol & Soc Writ Lab	2	W	LAB	T	10:00A-11:45A		ISB 431	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
15486		ENVS-100L-03		Ecol & Soc Writ Lab	2	W	LAB	T	04:00P-05:45P		ISB 221	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
15487		ENVS-100L-04		Ecol & Soc Writ Lab	2	W	LAB	Th	08:00A-09:45A		Soc Sci 2 141	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
15488		ENVS-100L-05		Ecol & Soc Writ Lab	2	W	LAB	Th	10:00A-11:45A		Nat Sci 2 411	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
15489		ENVS-100L-06		Ecol & Soc Writ Lab	2	W	LAB	Th	10:00A-11:45A		ISB 431	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
15490		ENVS-100L-07		Ecol & Soc Writ Lab	2	W	LAB	Th	12:00P-01:45P		Porter Acad 249	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
15491		ENVS-100L-08		Ecol & Soc Writ Lab	2	W	LAB	Th	12:00P-01:45P		ISB 431	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
22112		ENVS-100L-09		Ecol & Soc Writ Lab	2	W	LAB	Th	04:00P-05:45P		ISB 221	Bury,J.T.	R
<i>Concurrent enrollment in ENVS 100 is required</i>													
22113		ENVS-100L-10		Ecol & Soc Writ Lab	2	W	LAB	Th	06:00P-07:45P		Soc Sci 2 141	Bury,J.T.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
<i>Concurrent enrollment in ENVS 100 is required</i>													
23938		ENVS-108-01		General Entomology	5	LEC	TTh		12:00P-01:45P		ISB 221	Letourneau,D.K.	
23939		ENVS-108L-01		Gen Entomology Lab	3	LAB	TTh		02:00P-05:00P		Nat Sci 2 233	Letourneau,D.K.	R
21139		ENVS-115A-01		GIS & Envnmntl Applc	5	LEC	TTh		10:00A-11:45A		Cowell Clrm 131	Fulfroost,B.	R
<i>Concurrent enrollment in ENVS 115L is required; taught in conjunction with ENVS 215A</i>													
21140		ENVS-115L-01		GIS & Envrn App Lab	2	LAB	M		09:00A-12:00P		ISB 450	Fulfroost,B.	R
<i>Concurrent enrollment in ENVS 115A is required; taught in conjunction with ENVS 215L</i>													
21141		ENVS-115L-02		GIS & Envrn App Lab	2	LAB	M		01:00P-04:00P		ISB 450	Fulfroost,B.	R
<i>Concurrent enrollment in ENVS 115A is required; taught in conjunction with ENVS 215L</i>													
21142		ENVS-115L-03		GIS & Envrn App Lab	2	LAB	W		09:00A-12:00P		ISB 450	Fulfroost,B.	R
<i>Concurrent enrollment in ENVS 115A is required; taught in conjunction with ENVS 215L</i>													
21143		ENVS-115L-04		GIS & Envrn App Lab	2	LAB	W		01:00P-04:00P		ISB 450	Fulfroost,B.	R
<i>Concurrent enrollment in ENVS 115A is required; taught in conjunction with ENVS 215L</i>													
15492		ENVS-130A-01		Agroeco & Sust Ag	5	LEC	MWF		02:00P-03:10P		Steven Acad 175	Gliessman,S.R.	R
<i>Concurrent enrollment in ENVS 130L is required</i>													
15493		ENVS-130L-01		Agroeco & Sust Lab	2	LAB	T		08:30A-11:30A		Lower Quarry	Gliessman,S.R.	
<i>See Enrollment Conditions for instructions; concurrent enrollment in ENVS 130A is required.</i>													
15494		ENVS-130L-02		Agroeco & Sust Lab	2	LAB	W		08:30A-11:30A		Lower Quarry	Gliessman,S.R.	
<i>See Enrollment Conditions for instructions; concurrent enrollment in ENVS 130A is required.</i>													
15495		ENVS-130L-03		Agroeco & Sust Lab	2	LAB	Th		08:30A-11:30A		Lower Quarry	Gliessman,S.R.	
<i>See Enrollment Conditions for instructions; concurrent enrollment in ENVS 130A is required.</i>													
15496		ENVS-130L-04		Agroeco & Sust Lab	2	LAB	F		08:30A-11:30A		Lower Quarry	Gliessman,S.R.	
<i>See Enrollment Conditions for instructions; concurrent enrollment in ENVS 130A is required.</i>													
23940		ENVS-144-01		Blood and Oil	5	LEC	TTh		02:00P-03:45P		J Baskin Engr 152	Richards,A.R.	
15497		ENVS-160-01		Restoration Ecology	5	LEC	MWF		11:00A-12:10P		PhysSciences 130	Staff	R
<i>Enroll in lecture and associated discussion section</i>													
22532		ENVS-160-01A		Discussion		DIS	T		02:00P-03:10P		ISB 431	Staff	
22533		ENVS-160-01B		Discussion		DIS	F		12:30P-01:40P		ISB 431	Staff	
22360		ENVS-165-01		Fresh Water Policy	5	LEC	MWF		12:30P-01:40P		Soc Sci 2 071	Haddad,B.M.	R
<i>Enroll in lecture and associated discussion section</i>													
22361		ENVS-165-01A		Discussion		DIS	W		02:00P-03:10P		ISB 431	Staff	
22362		ENVS-165-01B		Discussion		DIS	F		09:30A-10:40A		ISB 431	Staff	
		ENVS-183-XXX		Envs Stu Internship	5	FLI			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
		ENVS-183B-XXX		Senior Internship	5	FLI			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
		ENVS-184-XXX		Envs Stu Internship	2	FLI			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
22940		ENVS-189-01		Research Seminar	1	SEM	M		12:30P-01:40P		ISB 221	Zavaleta,E.S.	
<i>Taught in conjunction with ENVS 290</i>													
21923		ENVS-191F-01		Community/Agroecolgy	2	SEM	Th		04:00P-07:00P		Lower Quarry	Gliessman,S.R.	R
<i>Taught in conjunction with ENVS 91F</i>													
23942	Y	ENVS-196V-01		Organic Agriculture	5	SEM	M		09:30A-12:30P		ISB 431	Shennan,C.	
15882		ENVS-201A-01		Keywords & Concepts	5	SEM	MW		10:00A-11:45A		ISB 417	Fitzsimmons,M.I.	R
22942		ENVS-215A-01		Gis & Envnmntl Applc	5	SEM	TTh		10:00A-11:45A		Cowell Clrm 131	Fulfroost,B.	R
<i>Taught in conjunction with ENVS 115A</i>													
22943		ENVS-215L-01		GIS & Envrn App Lab	2	LAB	M		09:00A-12:00P		ISB 450	Fulfroost,B.	R
<i>Taught in conjunction with ENVS 115L</i>													
22944		ENVS-215L-02		GIS & Envrn App Lab	2	LAB	M		01:00P-04:00P		ISB 450	Fulfroost,B.	R
<i>Taught in conjunction with ENVS 115L</i>													
22945		ENVS-215L-03		GIS & Envrn App Lab	2	LAB	W		09:00A-12:00P		ISB 450	Fulfroost,B.	R
<i>Taught in conjunction with ENVS 115L</i>													
22946		ENVS-215L-04		GIS & Envrn App Lab	2	LAB	W		01:00P-04:00P		ISB 450	Fulfroost,B.	R
<i>Taught in conjunction with ENVS 115L</i>													
23943		ENVS-240-01		Policy & Conservatn	5	SEM	TTh		12:00P-01:45P		ISB 429	Press,D.M.	R
15883		ENVS-290-01		Interdis Research	2	SEM	M		12:30P-01:40P		ISB 221	Zavaleta,E.S.	R
<i>Taught in conjunction with ENVS 189</i>													

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
15884		ENVS-290L-01		Research Seminar	2	LAB	M		02:00P-03:10P		ISB 431	Holl,K.D.	R
15886		ENVS-292-01		Research In Envs	2	SEM			**To Be Arranged**			Bury,J.T.	R
15887		ENVS-292-02		Research In Envs	2	SEM			**To Be Arranged**			Fitzsimmons,M.I.	R
15888		ENVS-292-03		Research In Envs	2	SEM			**To Be Arranged**			Gilbert,G.S.	R
21824		ENVS-292-04		Research In Envs	2	SEM			**To Be Arranged**			Gliessman,S.R.	R
15889		ENVS-292-05		Research In Envs	2	SEM			**To Be Arranged**			Haddad,B.M.	R
15890		ENVS-292-06		Research In Envs	2	SEM			**To Be Arranged**			Letourneau,D.K.	R
15891		ENVS-292-07		Research In Envs	2	SEM			**To Be Arranged**			Loik,M.E.	R
15892		ENVS-292-08		Research In Envs	2	SEM			**To Be Arranged**			Press,D.M.	R
15893		ENVS-292-09		Research In Envs	2	SEM			**To Be Arranged**			Rajan,S.R.	R
21144		ENVS-292-10		Research In Envs	2	SEM			**To Be Arranged**			Richards,A.R.	R
22363		ENVS-292-11		Research In Envs	2	SEM			**To Be Arranged**			Shennan,C.	R
22611		ENVS-292-12		Research In Envs	2	SEM			**To Be Arranged**			Tzankova,Z.	R
22612		ENVS-292-13		Research In Envs	2	SEM			**To Be Arranged**			Wilmers,C.C.	R
22949		ENVS-292-14		Research In Envs	2	SEM			**To Be Arranged**			Zavaleta,E.S.	R

### Environmental Toxicology

15998		ETOX-80E-01		Aquatic Toxicology	5	2	LEC	TTh	02:00P-03:45P		PhysSciences 114	Flegal,A.R.	
22540		ETOX-80E-01A		Discussion			DIS	T	06:00P-07:10P		PhysSciences 450	Staff	
22541		ETOX-80E-01B		Discussion			DIS	W	11:00A-12:10P		PhysSciences 450	Staff	
22542		ETOX-80E-01C		Discussion			DIS	W	05:00P-06:10P		PhysSciences 450	Staff	
22543		ETOX-80E-01D		Discussion			DIS	Th	08:30A-09:40A		PhysSciences 450	Staff	
21924		ETOX-101-01		Source of Pollutnts	5		LEC	TTh	10:00A-11:45A		PhysSciences 450	Flegal,A.R.	
				<i>Taught in conjunction with ETOX 201</i>									
		ETOX-195-XXX		Senior Thesis	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		ETOX-198-XXX		Independent Study	5		IND		12:00A-12:00A			Staff	
				<i>See sponsoring agency for class number</i>									
		ETOX-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
23944		ETOX-200-01		Intrdisc Appr	5		LEC	MW	10:00A-11:45A		PhysSciences 450	Ottemann,K.M. Smith,D.R. Yildiz,F.	R
21124		ETOX-201-01		Sources/Pollutants	5		LEC	TTh	10:00A-11:45A		PhysSciences 450	Flegal,A.R.	R
				<i>Taught in conjunction with ETOX 101</i>									
22407		ETOX-281C-01		TopicsEnvirMicrobio	2		SEM		**To Be Arranged**			Saltikov,C.W.	R
16016		ETOX-281F-01		Topics Aquatic Tox	5		SEM		**To Be Arranged**			Flegal,A.R.	R
24549		ETOX-281M-01		Topics Molec Toxic	2		SEM		**To Be Arranged**			Camps,M.	R
22365		ETOX-281O-01		Bacterial Pathogen	2		SEM		**To Be Arranged**			Ottemann,K.M.	R
22366		ETOX-281S-01		Cell&Org/Toxicants	5		SEM		**To Be Arranged**			Smith,D.R.	R
16017		ETOX-281Y-01		Bacterial Biofilms	2		SEM		**To Be Arranged**			Yildiz,F.	R
16018		ETOX-292-01		Intro Grad Seminar	0		SEM	T	12:00P-01:00P		PhysSciences 240	Camps,M.	R

### Film and Digital Media

16053		FILM-20A-01		The Film Experience	5	HA	LEC	TTh	02:00P-03:45P		Media Theater M110	Limbrick,P.E.	R
				<i>Enroll in lecture and associated discussion section</i>									
									04:00P-06:50P		Media Theater M110		
16054		FILM-20A-01A		Discussion			DIS	W	09:30A-10:30A		Commun Bldg 117	Staff	
16055		FILM-20A-01B		Discussion			DIS	W	10:45A-11:45A		Commun Bldg 117	Staff	
16056		FILM-20A-01C		Discussion			DIS	W	09:30A-10:30A		Commun Bldg 121	Staff	
16057		FILM-20A-01D		Discussion			DIS	W	10:45A-11:45A		Commun Bldg 121	Staff	
16058		FILM-20A-01E		Discussion			DIS	W	12:00P-01:00P		Commun Bldg 117	Staff	
16059		FILM-20A-01F		Discussion			DIS	W	01:15P-02:15P		Commun Bldg 117	Staff	
16060		FILM-20A-01G		Discussion			DIS	W	02:30P-03:30P		Commun Bldg 117	Staff	
16061		FILM-20A-01H		Discussion			DIS	W	03:45P-04:45P		Commun Bldg 117	Staff	
16062		FILM-20A-01I		Discussion			DIS	W	02:45P-03:45P		Commun Bldg 121	Staff	
16063		FILM-20A-01J		Discussion			DIS	W	04:00P-05:00P		Commun Bldg 121	Staff	
16064		FILM-20A-01K		Discussion			DIS	W	05:15P-06:15P		Commun Bldg 121	Staff	
16065		FILM-20A-01L		Discussion			DIS	W	06:30P-07:30P		Commun Bldg 121	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
16066		FILM-20A-01M		Discussion		DIS	F		02:30P-03:30P		Commun Bldg 117	Staff	
16067		FILM-20A-01N		Discussion		DIS	F		03:45P-04:45P		Commun Bldg 117	Staff	
23945		FILM-20C-01		Intro Digital Media	5	HA	LEC	TTh	10:00A-11:45A		Oakes Acad 105	Sack,W.	R
<i>Enroll in lecture and associated discussion section</i>													
23946		FILM-20C-01A		Discussion		DIS	F		09:30A-10:30A		Porter Acad 240	Staff	
23947		FILM-20C-01B		Discussion		DIS	F		10:45A-11:45A		Porter Acad 240	Staff	
23948		FILM-20C-01C		Discussion		DIS	F		12:00P-01:00P		Porter Acad 240	Staff	
23949		FILM-20C-01D		Discussion		DIS	F		01:15P-02:15P		Porter Acad 240	Staff	
23950		FILM-20C-01E		Discussion		DIS	F		02:30P-03:30P		Porter Acad 240	Staff	
23951		FILM-20C-01F		Discussion		DIS	F		03:45P-04:45P		Porter Acad 240	Staff	
22369		FILM-20P-01		Productn Technique	5	A	LEC	TTh	02:00P-03:45P		Commun Bldg 150	Staff	
<i>Enroll in lecture and associated discussion section</i>													
22370		FILM-20P-01A		Discussion		DIS	F		09:30A-10:30A		Commun Bldg 011	Staff	
22371		FILM-20P-01B		Discussion		DIS	F		10:45A-11:45A		Commun Bldg 011	Staff	
22372		FILM-20P-01C		Discussion		DIS	F		12:00P-01:00P		Commun Bldg 011	Staff	
22373		FILM-20P-01D		Discussion		DIS	F		01:15P-02:15P		Commun Bldg 011	Staff	
23952		FILM-80A-01		Technothrillers	5	5A	LEC	TTh	04:00P-05:45P		Oakes Acad 105	Crane,D.W.	
								T	06:00P-09:00P		Oakes Acad 105		
24621		FILM-80S-01		Sp Top Film/Dig Med	5	5A	LEC	TTh	04:00P-06:00P		Commun Bldg 150	Staff	
16068		FILM-120-01		Intro Film Theory	5	W	LEC	MW	05:00P-06:45P		ClassroomUnit 001	Hastie,A.E.	R
<i>Enroll in lecture and associated discussion section</i>													
								M	07:15P-10:15P		ClassroomUnit 001		
16069		FILM-120-01A		Discussion		DIS	Th		02:00P-03:00P		Commun Bldg 121	Staff	
16070		FILM-120-01B		Discussion		DIS	Th		03:15P-04:15P		Commun Bldg 121	Staff	
16071		FILM-120-01C		Discussion		DIS	Th		04:30P-05:30P		Commun Bldg 121	Staff	
16072		FILM-120-01D		Discussion		DIS	Th		05:45P-06:45P		Commun Bldg 121	Staff	
16073		FILM-120-01E		Discussion		DIS	Th		06:15P-07:15P		Commun Bldg 117	Staff	
16074		FILM-120-01F		Discussion		DIS	Th		07:30P-08:30P		Commun Bldg 117	Staff	
16075		FILM-120-01G		Discussion		DIS	F		09:30A-10:30A		Commun Bldg 121	Staff	
16076		FILM-120-01H		Discussion		DIS	F		10:45A-11:45A		Commun Bldg 121	Staff	
23589		FILM-120-01I		Discussion		DIS	F		12:00P-01:00P		Commun Bldg 121	Staff	
23953		FILM-120-01J		Discussion		DIS	F		01:15P-02:15P		Commun Bldg 121	Staff	
23954		FILM-132A-01		Internatnl Cinema	5	A	LEC	TTh	10:00A-01:00P		Commun Bldg 150	Limbrick,P.E.	R
<i>Enroll in lecture and associated discussion section</i>													
23955		FILM-132A-01A		Discussion		DIS	Th		01:30P-02:30P		Commun Bldg 117	Staff	
23956		FILM-132A-01B		Discussion		DIS	Th		02:45P-03:45P		Commun Bldg 117	Staff	
23957		FILM-132A-01C		Discussion		DIS	F		02:30P-03:30P		Commun Bldg 121	Staff	
23958		FILM-132A-01D		Discussion		DIS	F		03:45P-04:45P		Commun Bldg 121	Staff	
16077	Y	FILM-150-01		Screenwriting	5	W	SEM	W	02:00P-06:00P		Commun Bldg 113	Hollander,E.E.	
<i>See Enrollment Conditions for instructions</i>													
23964	Y	FILM-151-01		Film Directing	5	A	STU	TTh	10:00A-11:45A		Commun Bldg 140	Vazquez,G.O.	
24620		FILM-152-01		Script Analysis	5		LEC	F	10:00A-01:45P		Commun Bldg 113	Dam,H.T.	R
22443		FILM-160-01		Film Genres	5	A	LEC	TTh	09:45A-11:45A		Soc Sci 2 071	Kim,L.S.	R
24510		FILM-161-01		Documentry Film&Vid	5		LEC	MW	06:00P-08:40P		Commun Bldg 150	Gustafson,I.	R
22960		FILM-168-01		Natnl Cine & Cultur	5		LEC	MW	09:30A-11:30A		Commun Bldg 150	Staff	R
23965		FILM-170A-01		Digital Media Prod	5	A	STU	MW	12:30P-03:10P		Commun Bldg 011	Staff	R
16078	Y	FILM-170B-01		Film/Video Productn	5	A	STU	MW	09:00A-11:30A		Commun Bldg 113	Hollander,E.E.	
<i>See Enrollment Conditions for instructions; enroll in studio and associated secondary studio</i>													
16079		FILM-170B-01A		Secondary Studio			STS	W	11:30A-01:00P		Commun Bldg 140	Staff	
23966	Y	FILM-170B-02		Film/Video Productn	5	A	STU	TTh	04:00P-06:30P		Commun Bldg 113	Staff	
<i>See Enrollment Conditions for instructions; enroll in studio and associated secondary studio</i>													
23967		FILM-170B-02A		Secondary Studio			STS	Th	06:30P-08:00P		Commun Bldg 140	Staff	
22961	Y	FILM-172-01		Film & Video Studio	5		STU	TTh	02:00P-04:30P		Commun Bldg 130	Vazquez,G.O.	
<i>See Enrollment Conditions for instructions; enroll in studio and associated secondary studio.</i>													
22962		FILM-172-01A		Secondary Studio			STS	Th	04:30P-06:00P		Commun Bldg 140	Staff	
22054	Y	FILM-175-01		Documen Video Wkshp	5		STU	TTh	10:00A-12:30P		Commun Bldg 113	Lord,C.L.	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
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See Enrollment Conditions for instructions

16081	FILM-194A-01	Film Theory Seminar	5	SEM	TTh	04:00P-06:00P	Commun Bldg 117	Hastie,A.E.	R
22374	FILM-194S-01	Special Topics Seminar	5	SEM	MW	12:30P-02:30P	Commun Bldg 121	Staff	R

## Feminist Studies

20837	FMST-1-01	Intro To Feminisms	5	H	LEC	TTh	04:00P-05:45P	ClassroomUnit 002	Aptheker,B.F.
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Mandatory sections to be assigned during first week of class

23472	FMST-1-01A	Discussion			DIS		**To Be Arranged**		Staff
23473	FMST-1-01B	Discussion			DIS		**To Be Arranged**		Staff
23474	FMST-1-01C	Discussion			DIS		**To Be Arranged**		Staff
23475	FMST-1-01D	Discussion			DIS		**To Be Arranged**		Staff
23476	FMST-1-01E	Discussion			DIS		**To Be Arranged**		Staff
23477	FMST-1-01F	Discussion			DIS		**To Be Arranged**		Staff
23478	FMST-1-01G	Discussion			DIS		**To Be Arranged**		Staff
23479	FMST-1-01H	Discussion			DIS		**To Be Arranged**		Staff
23480	FMST-1-01I	Discussion			DIS		**To Be Arranged**		Staff
23481	FMST-1-01J	Discussion			DIS		**To Be Arranged**		Staff
23482	FMST-1-01K	Discussion			DIS		**To Be Arranged**		Staff
23483	FMST-1-01L	Discussion			DIS		**To Be Arranged**		Staff
23484	FMST-1-01M	Discussion			DIS		**To Be Arranged**		Staff
23485	FMST-1-01N	Discussion			DIS		**To Be Arranged**		Staff
23486	FMST-1-01O	Discussion			DIS		**To Be Arranged**		Staff
23487	FMST-1-01P	Discussion			DIS		**To Be Arranged**		Staff
23488	FMST-1-01Q	Discussion			DIS		**To Be Arranged**		Staff
23489	FMST-1-01R	Discussion			DIS		**To Be Arranged**		Staff
23490	FMST-1-01S	Discussion			DIS		**To Be Arranged**		Staff
23491	FMST-1-01T	Discussion			DIS		**To Be Arranged**		Staff
23492	FMST-1-01U	Discussion			DIS		**To Be Arranged**		Staff
23493	FMST-1-01V	Discussion			DIS		**To Be Arranged**		Staff
23494	FMST-1-01W	Discussion			DIS		**To Be Arranged**		Staff
23495	FMST-1-01X	Discussion			DIS		**To Be Arranged**		Staff
23496	FMST-1-01Y	Discussion			DIS		**To Be Arranged**		Staff
23498	FMST-1-01Z	Discussion			DIS		**To Be Arranged**		Staff
24634	FMST-80P-01	War Film & Culture	5	5E	LEC	MW	09:30A-12:10P	Soc Sci 2 075	Staff

Mandatory sections to be assigned during first week of class

24193	FMST-80S-01	Women In Music	5	4A	LEC	TTh	12:00P-01:45P	Music Center 131	Merchant,T.H.
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Also offered as MUSC 80S

23977	FMST-112-01	Women and the Law	5		LEC	TTh	10:00A-11:45A	Merrill Acad 102	Dent,G.	R
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Also offered as POLI 112; mandatory sections to be assigned during first week of class

23978	FMST-112-01A	Discussion			DIS		**To Be Arranged**		Staff	
23979	FMST-112-01B	Discussion			DIS		**To Be Arranged**		Staff	
23980	FMST-112-01C	Discussion			DIS		**To Be Arranged**		Staff	
23981	FMST-112-01D	Discussion			DIS		**To Be Arranged**		Staff	
23982	FMST-112-01E	Discussion			DIS		**To Be Arranged**		Staff	
23983	FMST-112-01F	Discussion			DIS		**To Be Arranged**		Staff	
23975	FMST-133-01	Science & the Body	5		SEM	M	02:00P-05:00P	Cowell Acad 216	Barad,K.M.	R
	FMST-193-XXX	Field Study	5		FLI		**To Be Arranged**		Staff	

See sponsoring agency for class number

FMST-193F-XXX	Field Study	2		FLI		**To Be Arranged**		Staff
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See sponsoring agency for class number

FMST-195-XXX	Sr Thesis or Project	5	W	IND		**To Be Arranged**		Staff
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See sponsoring agency for class number

20870	Y FMST-196-01	Feminist Meth Teach	5		SEM	TTh	12:00P-01:45P	Cowell Com 134	Aptheker,B.F.
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See Enrollment Conditions for instructions

FMST-198-XXX	Indep Field Study	5		FLI		**To Be Arranged**		Staff
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See sponsoring agency for class number

FMST-198F-XXX	Indep Field Study	2		FLI		**To Be Arranged**		Staff
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Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
<i>See sponsoring agency for class number</i>													
FMST-199-XXX				Tutorial	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
FMST-199F-XXX				Tutorial	2	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
FMST-297-XXX				Independent Study	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													

## French

16124	FREN-1-01	Instr French Lang	5	LEC	MWF	09:30A-10:40A					PhysSciences 140	Elsey,A.A.	
16125	FREN-1-02	Instr French Lang	5	LEC	MWF	11:00A-12:10P					PhysSciences 140	Elsey,A.A.	
16126	FREN-1-03	Instr French Lang	5	LEC	MWF	03:30P-04:40P					Soc Sci I 161	Hutchison,G.K.	
16127	FREN-2-01	Instr French Lang	5	LEC	MWF	02:00P-03:10P					Oakes Acad 106	Megharbi,N.	R
16128	FREN-2-02	Instr French Lang	5	LEC	MWF	03:30P-04:40P					Oakes Acad 106	Megharbi,N.	R
16129	FREN-3-01	Instr French Lang	5	LEC	MWF	11:00A-12:10P					Oakes Acad 106	Megharbi,N.	R
16130	FREN-4-01	Intermed French	5	H	LEC	MWF	09:30A-10:40A				N. Sci Annex 103	Gautier,C.	R
16131	FREN-4-02	Intermed French	5	H	LEC	MWF	11:00A-12:10P				N. Sci Annex 103	Gautier,C.	R
16132	FREN-5-01	Intermediate French	5	H	LEC	MWF	03:30P-04:40P				PhysSciences 136	Elsey,A.A.	R
16133	FREN-6-01	Intermediate French	5	H	LEC	MWF	11:00A-12:10P				Soc Sci I 149	Hutchison,G.K.	R
16134	FREN-13F-01	Oral Fluency/Cultre	2	LEC	M	05:00P-06:45P					PhysSciences 136	Elsey,A.A.	R
24501	FREN-114-01	French Phonetics	5	LEC	MWF	02:00P-03:10P					N. Sci Annex 103	Gautier,C.	R

## German

16163	GERM-1-01	Instr German Lang	5	LEC	MWF	08:00A-09:10A					Soc Sci I 161	Campbell,W.I.	
16164	GERM-1-02	Instr German Lang	5	LEC	MWF	09:30A-10:40A					Soc Sci I 161	Campbell,W.I.	
16165	GERM-1-03	Instr German Lang	5	LEC	MWF	11:00A-12:10P					Soc Sci I 161	Campbell,W.I.	
16166	GERM-4-01	Intermediate German	5	H	LEC	MWF	12:30P-01:40P				Crown Clrm 208	Harris-Frisk,J.	R

## Greek

16184	GREE-1-01	Elem Ancient Greek	5	LEC	MWF	11:00A-12:10P					Soc Sci I 145	Walsh,T.R.	
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## Hebrew

16255	HEBR-1-01	Instr Hebrew Lang	5	LEC	MWF	09:30A-10:40A					J Baskin Engr 372	Rossman-Benjamin,T.H.	
16256	HEBR-4-01	Intermediate Hebrew	5	H	LEC	MWF	12:30P-01:40P				Porter Acad 250	Rossman-Benjamin,T.H.R	

## History

24059	HIS-2A-01	The World to 1500	5	H	LEC	MWF	12:30P-01:40P				Steven Acad 150	Catlos,B.A.	
<i>Enroll in lecture and associated discussion section</i>													
24060	HIS-2A-01A	Discussion			DIS	M	05:00P-06:10P				Cowell Clrm 131	Staff	
24061	HIS-2A-01B	Discussion			DIS	T	06:00P-07:10P				Eight Acad 252	Staff	
24062	HIS-2A-01C	Discussion			DIS	T	07:30P-08:40P				Eight Acad 252	Staff	
24063	HIS-2A-01D	Discussion			DIS	F	02:00P-03:10P				Cowell Clrm 131	Staff	
24066	HIS-10B-01	Us Hist 1877-Presnt	5	H	LEC	TTh	12:00P-01:45P				Oakes Acad 105	Lasar,M.	
<i>Enroll in lecture and associated discussion section</i>													
24067	HIS-10B-01A	Discussion			DIS	T	04:00P-05:10P				Cowell Clrm 131	Staff	
24068	HIS-10B-01B	Discussion			DIS	W	08:00A-09:10A				Oakes Acad 106	Staff	
24069	HIS-10B-01C	Discussion			DIS	W	05:00P-06:10P				Cowell Clrm 131	Staff	
24070	HIS-10B-01D	Discussion			DIS	W	06:30P-07:40P				Cowell Clrm 131	Staff	
24071	HIS-10B-01E	Discussion			DIS	F	08:00A-09:10A				Oakes Acad 102	Staff	
24072	HIS-10B-01F	Discussion			DIS	F	12:30P-01:40P				Cowell Clrm 131	Staff	
24592	HIS-40A-01	Early Mod East Asia	5	HE	LEC	MWF	12:30P-01:40P				Humn Lecture 206	Christy,A.S.	
<i>Enroll in lecture and associated discussion section</i>													
24649	HIS-40A-01A	Discussion			DIS	M	05:00P-06:10P				Oakes Acad 102	Staff	
24650	HIS-40A-01B	Discussion			DIS	M	06:30P-07:40P				Oakes Acad 102	Staff	
24651	HIS-40A-01C	Discussion			DIS	T	08:30A-09:40A				Soc Sci 2 179	Staff	
24652	HIS-40A-01D	Discussion			DIS	T	06:00P-07:10P				Eight Acad 242	Staff	
24653	HIS-40A-01E	Discussion			DIS	T	07:30P-08:40P				Eight Acad 242	Staff	
24654	HIS-40A-01F	Discussion			DIS	F	08:00A-09:10A				Eight Acad 252	Staff	
24073	HIS-65A-01	Medieval Europe	5	H	LEC	MWF	03:30P-04:40P				Oakes Acad 105	Polecritti,C.L.	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
<i>Enroll in lecture and associated discussion section</i>													
24074		HIS-65A-01A		Discussion		DIS	T		06:00P-07:10P		PhysSciences 136	Staff	
24075		HIS-65A-01B		Discussion		DIS	T		07:30P-08:40P		PhysSciences 136	Staff	
24076		HIS-65A-01C		Discussion		DIS	W		08:00A-09:10A		Cowell Com 134	Staff	
24077		HIS-65A-01D		Discussion		DIS	W		12:30P-01:40P		Cowell Clrm 131	Staff	
24078		HIS-65A-01E		Discussion		DIS	F		08:00A-09:10A		Soc Sci 2 179	Staff	
24079		HIS-65A-01F		Discussion		DIS	F		12:30P-01:40P		Soc Sci 2 179	Staff	
		HIS-99-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
24080		HIS-102A-01		Crusades: 1000-1300	5	LEC	MW		05:00P-06:45P		Thim Lecture 001	Catlos,B.A.	
<i>Enroll in lecture and associated discussion section</i>													
24081		HIS-102A-01A		Discussion		DIS	M		12:30P-01:40P		Cowell Clrm 131	Staff	
24082		HIS-102A-01B		Discussion		DIS	F		08:00A-09:10A		Cowell Com 134	Staff	
23026		HIS-106B-01		AsianAsianAm1941-Pres	5	E	LEC	MWF	11:00A-12:10P		Cowell Clrm 131	Yang-Murray,A.S.	
<i>Enroll in lecture and associated discussion section</i>													
23027		HIS-106B-01A		Discussion		DIS	W		08:00A-09:10A		Steven Acad 175	Staff	
23028		HIS-106B-01B		Discussion		DIS	Th		06:00P-07:10P		Kresge Clrm 327	Staff	
23297		HIS-110D-01		Civil War Era	5	LEC	MWF		09:30A-10:40A		Steven Acad 150	Jones,C.A.	
<i>Enroll in lecture and associated discussion section</i>													
23298		HIS-110D-01A		Discussion		DIS	M		11:00A-12:10P		Steven Acad 175	Staff	
23299		HIS-110D-01B		Discussion		DIS	W		12:30P-01:40P		Kresge Acad 194	Staff	
24655		HIS-110D-01C		Discussion		DIS	Th		12:00P-01:10P		Steven Acad 175	Staff	
24656		HIS-110D-01D		Discussion		DIS	F		02:00P-03:10P		Earth&Marine B214	Staff	
24083		HIS-115A-01		US LaborHist/Colonial	5	LEC	TTh		10:00A-11:45A		Cowell Com 134	Illingworth,J.W.	
24084		HIS-121A-01		Afro-Amer to 1877	5	E	LEC	TTh	12:00P-01:45P		Cowell Clrm 131	Anthony,D.H.	
<i>Enroll in lecture and associated discussion section</i>													
24085		HIS-121A-01A		Discussion		DIS	M		06:30P-07:40P		Cowell Clrm 131	Staff	
24086		HIS-121A-01B		Discussion		DIS	T		08:30A-09:40A		Steven Acad 175	Staff	
24087		HIS-123A-01		US Immig His 1600-18775		LEC	MW		05:00P-06:45P		Merrill Acad 102	Simonton,K.R.	
24088		HIS-123A-01A		Discussion		DIS	T		10:00A-11:10A		Steven Acad 175	Staff	
24089		HIS-123A-01B		Discussion		DIS	W		11:00A-12:10p		Steven Acad 175	Staff	
24659		HIS-140B-01		His China 1644-1911	5	LEC	MWF		09:30A-10:40A		Porter Acad 144	Hu,M.	
<i>Enroll in lecture and associated discussion section</i>													
24660		HIS-140B-01A		Discussion		DIS	M		12:30P-01:40P		Kresge Acad 194	Staff	
24661		HIS-140B-01B		Discussion		DIS	W		03:30P-04:40P		Steven Acad 175	Staff	
24593		HIS-163B-01		Genesis	5	LEC	MWF		11:00A-12:10P		J Baskin Engr 165	Staff	R
24096		HIS-167-01		Imperial Spain	5	LEC	TTh		02:00P-03:45P		PhysSciences 110	Silleras-Fernandez,N.	
<i>Enroll in lecture and associated discussion section</i>													
24097		HIS-167-01A		Discussion		DIS	Th		08:30A-09:40A		Steven Acad 175	Staff	
24098		HIS-167-01B		Discussion		DIS	F		11:00A-12:10P		Steven Acad 175	Staff	
24099		HIS-170A-01		Fren:OldRegime&Revol	5	LEC	TTh		12:00P-01:45P		Merrill Acad 102	Beecher,J.F.	
<i>Enroll in lecture and associated discussion section</i>													
24100		HIS-170A-01A		Discussion		DIS	M		12:30P-01:40P		Oakes Acad 106	Staff	
24101		HIS-170A-01B		Discussion		DIS	W		03:30P-04:40P		Kresge Acad 194	Staff	
24102		HIS-170A-01C		Discussion		DIS	Th		10:00A-11:10A		Steven Acad 175	Staff	
24103		HIS-170A-01D		Discussion		DIS	F		08:00A-09:10A		Steven Acad 175	Staff	
23035		HIS-172A-01		German History	5	LEC	TTh		06:00P-07:45P		Steven Acad 175	Cioc,M.	
<i>Enroll in lecture and associated discussion section</i>													
23036		HIS-172A-01A		Discussion		DIS	M		08:00A-09:10A		Steven Acad 175	Staff	
23037		HIS-172A-01B		Discussion		DIS	Th		02:00P-03:10P		Engineer 2 192	Staff	
24104		HIS-172B-01		German Film 1919-45	5	LEC	W		07:00P-10:00P		Steven Acad 175	Cioc,M.	
<i>Enroll in lecture and associated discussion section</i>													
24105		HIS-172B-01A		Discussion		DIS	M		12:30P-01:40P		Earth&Marine B214	Staff	
24106		HIS-172B-01B		Discussion		DIS	W		11:00A-12:10P		Engineer 2 194	Staff	
24677		HIS-175C-01		Russian History	5	LEC	MWF		08:00A-09:10A		Cowell Clrm 131	Staff	
24678		HIS-175C-01A		Discussion		DIS	M		11:00A-12:10P		Porter Acad 144	Staff	
24679		HIS-175C-01B		Discussion		DIS	T		04:00P-05:10P		Engineer 2 192	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24110		HIS-180A-01		English History	5	LEC	MWF		09:30A-10:40A		Steven Acad 175	Sharp,B.	
		<i>Enroll in lecture and associated discussion section</i>											
24111		HIS-180A-01A		Discussion		DIS	M		03:30P-04:40P		Steven Acad 175	Staff	
24112		HIS-180A-01B		Discussion		DIS	T		08:30A-09:40A		Engineer 2 192	Staff	
24113		HIS-190F-01		Resrch In Americas	5	W SEM	T		04:00P-07:00P		Oakes Acad 101	Haas,L.	R
24114		HIS-190U-01		Power/Culture in US	5	W SEM	W		02:00P-05:00P		Soc Sci I 145	Lasar,M.	R
		HIS-192-XXX		Dir Stu Teach	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		HIS-193-XXX		Field Study	5	FLI			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
23044		HIS-194N-01		ModernAsianHistory	5	WE SEM	MW		05:00P-06:45P		Crown Clrm 201	Basu,D.K.	R
		HIS-195A-XXX		Thesis Research	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		HIS-195B-XXX		Thesis Writing	5	W IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
23045		HIS-196E-01		Modern Irish Histry	5	W SEM	MW		07:00P-08:45P		Hum & Soc Sci 250	Thompson,B.A.	R
24116		HIS-196N-01		East Eur Jewish His	5	WE SEM	TTh		08:00P-09:45P		Crown Clrm 201	Kenez,P.	R
		HIS-198-XXX		Indep Field Study	5	FLI			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		HIS-199-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
16376		HIS-200-01		Methods & Theories	5	SEM	M		02:00P-05:00P		Steven Acad 213	Traugott,M.	R
24587		HIS-221-01		Empires/NewNations	5	SEM	Th		08:00A-11:00A		Humanities I 545	Haas,L.	R
24118		HIS-230C-01		Rdgs: 20Th C China	5	SEM	W		09:00A-12:00P		Humanities I 545	Honig,E.	R
16377		HIS-280A-01		Teaching Pedagogy	2	SEM	Th		04:00P-07:00P		Humanities I 545	O'Hara,M.D.	R
<b>History of Art and Visual Culture</b>													
23985		HAVC-10G-01		Intro Visual Europe	5	HA LEC	MWF		11:00A-12:10P		J Bask Aud 101	Soussloff,C.M.	
		<i>Enroll in lecture and associated discussion section</i>											
23986		HAVC-10G-01A		Discussion		DIS	M		12:30P-01:30P		KresgeAnnex B 115	Staff	
23987		HAVC-10G-01B		Discussion		DIS	M		02:00P-03:00P		KresgeAnnex B 115	Staff	
23988		HAVC-10G-01C		Discussion		DIS	M		03:30P-04:30P		KresgeAnnex B 115	Staff	
23989		HAVC-10G-01D		Discussion		DIS	M		05:00P-06:00P		KresgeAnnex B 115	Staff	
23990		HAVC-10G-01E		Discussion		DIS	T		08:30A-09:30A		Porter Acad 248	Staff	
23991		HAVC-10G-01F		Discussion		DIS	T		10:00A-11:00A		Porter Acad 248	Staff	
23992		HAVC-10G-01G		Discussion		DIS	W		12:30P-01:30P		Porter Acad 248	Staff	
23993		HAVC-10G-01H		Discussion		DIS	W		02:00P-03:00P		Porter Acad 248	Staff	
23994		HAVC-10G-01I		Discussion		DIS	Th		08:30A-09:30A		Porter Acad 248	Staff	
23995		HAVC-10G-01J		Discussion		DIS	Th		10:00A-11:00A		Porter Acad 248	Staff	
23221		HAVC-80T-01		Body Art: Oceania	5	5AE LEC	MWF		09:30A-10:40A		Earth&Marine B206	Kamehiro,S.L.	
		<i>Enroll in lecture and associated discussion section</i>											
23253		HAVC-80T-01A		Discussion		DIS	W		11:00A-12:00P		KresgeAnnex B 115	Staff	
23254		HAVC-80T-01B		Discussion		DIS	W		12:30P-01:30P		KresgeAnnex B 115	Staff	
23255		HAVC-80T-01C		Discussion		DIS	W		02:00P-03:00P		KresgeAnnex B 115	Staff	
23256		HAVC-80T-01D		Discussion		DIS	W		03:30P-04:30P		KresgeAnnex B 115	Staff	
23996		HAVC-80T-01E		Discussion		DIS	Th		08:45A-09:45A		KresgeAnnex B 115	Staff	
23997		HAVC-80T-01F		Discussion		DIS	Th		10:00A-11:00A		KresgeAnnex B 115	Staff	
23998		HAVC-80T-01G		Discussion		DIS	F		02:00P-03:00P		Porter Acad 248	Staff	
23999		HAVC-80T-01H		Discussion		DIS	F		03:15P-04:15P		Porter Acad 248	Staff	
24000		HAVC-80T-01I		Discussion		DIS	F		11:00A-12:00P		Porter Acad 248	Staff	
24001		HAVC-80T-01J		Discussion		DIS	F		12:30P-01:30P		Porter Acad 248	Staff	
24002		HAVC-105E-01		Asian Religious Art	5	AE LEC	MWF		12:30P-01:40P		Eight Acad 240	Staff	
		<i>Enroll in lecture and associated discussion section</i>											
24003		HAVC-105E-01A		Discussion		DIS	M		02:00P-03:00P		Porter Acad 248	Staff	
24004		HAVC-105E-01B		Discussion		DIS	M		03:30P-04:30P		Porter Acad 248	Staff	
24005		HAVC-105E-01C		Discussion		DIS	W		04:45P-05:45P		KresgeAnnex B 115	Staff	
24006		HAVC-105E-01D		Discussion		DIS	W		06:00P-07:00P		KresgeAnnex B 115	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24012		HAVC-107A-01		Central Africa	5	AE	LEC	MWF	09:30A-10:40A		Eight Acad 240	Cameron,E.L.	R
21127		HAVC-114-01		Buddhist Visul World	5	A	LEC	TTh	10:00A-11:45A		Eight Acad 240	Birnbaum,R.	R
24615		HAVC-138-01		Archtectr 1880-1968	5	A	LEC	MWF	02:00P-03:10P		Eight Acad 240	Lieber,J.	
<i>Enroll in lecture and associated discussion section</i>													
24616		HAVC-138-01A		Discussion			DIS	T	04:00P-05:00P		KresgeAnnex B 115	Staff	
24617		HAVC-138-01B		Discussion			DIS	F	09:45A-10:45A		KresgeAnnex B 115	Staff	
24618		HAVC-138-01C		Discussion			DIS	F	11:00A-12:00P		KresgeAnnex B 115	Staff	
24619		HAVC-138-01D		Discussion			DIS	T	06:15P-07:15P		KresgeAnnex B 115	Staff	
24018		HAVC-150A-01		The Maya	5	A	LEC	TTh	10:00A-11:45A		Earth&Marine B210	Dean,C.	
24021		HAVC-174C-01		Memory/Place Arch	5	A	LEC	MW	05:00P-06:45P		Earth&Marine B214	Lieber,J.	R
24023		HAVC-191P-01		Pac Is Art/Identity	5	AE	SEM	MW	05:00P-06:45P		Porter Acad 250	Kamehiro,S.L.	R
24604		HAVC-191X-01		Mary/Byzantine Art	5	A	SEM	TTh	04:00P-05:45P		Porter Acad 250	Evangelatou,M.	R
<b>History of Consciousness</b>													
24693		HISC-80N-01		Pol of Emotion	5	5	LEC	MW	05:00P-06:45P		Steven Acad 175	Staff	
24120		HISC-217A-01		Feminist Theory	5		SEM		**To Be Arranged**		Humanities I 420	Haraway,D.J.	R
24121		HISC-220A-01		Glbl/Cultrl Process	5		SEM		**To Be Arranged**		Humanities I 420	Clifford,J.T.	R
24122		HISC-234A-01		Soc Movements-U.S.	5		SEM		**To Be Arranged**		Humanities I 420	Epstein,B.L.	R
<b>Hindi</b>													
21840		HNDI-1-01		Elementary Hindi	5		SEM	MWF	12:30P-01:40P		Soc Sci 2 165	Staff	
21841		HNDI-4-01		Intermediate Hindi	5	H	LEC	MWF	11:00A-12:10P		Soc Sci 2 137	Staff	R
<b>Information Systems Management</b>													
16658		ISM-50-01		Business Inf System	5		LEC	TTh	08:00A-09:45A		Kresge Clrm 321	Musacchio,J.T.	
21196		ISM-101-01		Mgmt Of Tech Seminar	2		SEM	Th	04:00P-05:45P		N. Sci Annex 102	Desa,S.	
22377		ISM-105-01		Mgmt of Tech I	5		LEC	TTh	12:00P-01:45P		J Baskin Engr 372	Desa,S.	R
<i>Taught in conjunction with ISM 205</i>													
22378		ISM-205-01		Management Tech I	5		LEC	TTh	12:00P-01:45P		J Baskin Engr 372	Desa,S.	R
<i>Taught in conjunction with ISM 105</i>													
24658		ISM-207-01		Random Proc Models	5		LEC	TTh	12:00P-01:45P		Porter Acad 241	Musacchio,J.T.	R
22518		ISM-209-01		Knowl Svcs/Data Analt	5		LEC	W	05:00P-09:30P		Engineer 2 194	Akella,R.	R
23053		ISM-209-50		Knowl Svcs/Data Analt	5		LEC	W	05:00P-09:30P		SiliconValleyCtr	Akella,R.	R
22560		ISM-2801-01		Info Retrievl/Knowl Mgmt	2		SEM	T	02:00P-03:45P		Engineer 2 475	Zhang,Y.	R
<b>Italian</b>													
16659		ITAL-1-01		Instr Italian Lang	5		LEC	MWF	11:00A-12:10P		PhysSciences 136	Prencipe,M.A.	
16660		ITAL-1-02		Instr Italian Lang	5		LEC	MWF	12:30P-01:40P		PhysSciences 136	Prencipe,M.A.	
16661		ITAL-1-03		Instr Italian Lang	5		LEC	MWF	02:00P-03:10P		PhysSciences 136	Prencipe,M.A.	
16662		ITAL-1-04		Instr Italian Lang	5		LEC	MWF	03:30P-04:40P		Soc Sci 2 159	Centineo,G.	
16663		ITAL-4-01		Intermed Italian	5	H	LEC	MWF	12:30P-01:40P		Soc Sci 2 159	Centineo,G.	R
16664		ITAL-4-02		Intermed Italian	5	H	LEC	MWF	02:00P-03:10P		Soc Sci 2 159	Centineo,G.	R
<b>Japanese</b>													
16688		JAPN-1-01		Japanese Language	5		LEC	MWF	08:00A-09:10A		Kresge Clrm 325	Staff	
16689		JAPN-1-02		Japanese Language	5		LEC	MWF	09:30A-10:40A		Kresge Clrm 325	Staff	
16690		JAPN-1-03		Japanese Language	5		LEC	MWF	11:00A-12:10P		Steven Acad 152	Fujita,S.	
16692		JAPN-4-01		Intermed Japanese	5	H	LEC	MWF	02:00P-03:10P		Soc Sci I 149	Fujita,S.	R
23399		JAPN-4-02		Intermed Japanese	5	H	LEC	MWF	03:30P-04:40P		Soc Sci I 149	Fujita,S.	R
16693		JAPN-50-01		Preadvance Japanese	5	H	LEC	MWF	11:00A-12:10P		Kresge Clrm 325	Staff	R
<b>Latin</b>													
16912		LATN-1-01		Elementary Latin	5		LEC	MWF	09:30A-10:40A		Eight Acad 242	Staff	
16913		LATN-1-02		Elementary Latin	5		LEC	MWF	03:30P-04:40P		Steven Acad 152	Hamel,G.	
<b>Latin American and Latio Studies</b>													
16783		LALS-1-01		Intro Latin Amer St	5	SE	LEC	TTh	12:00P-01:45P		Humn Lecture 206	Delgado-P,G.	
16784		LALS-1-01A		Discussion			DIS	M	05:00P-06:10P		Soc Sci 2 363	Staff	
16785		LALS-1-01B		Discussion			DIS	T	08:30A-09:40A		Merrill Acad 003	Staff	
16786		LALS-1-01C		Discussion			DIS	T	06:00P-07:10P		Merrill Acad 003	Staff	
16787		LALS-1-01D		Discussion			DIS	T	07:30P-08:40P		Merrill Acad 003	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
16788		LALS-I-01E		Discussion		DIS	W		08:00A-09:10A		Crown Clrm 201	Staff	
21764		LALS-I-01F		Discussion		DIS	W		11:00A-12:10P		Soc Sci 2 363	Staff	
22254		LALS-I-01G		Discussion		DIS	W		03:30P-04:40P		Merrill Acad 003	Staff	
22255		LALS-I-01H		Discussion		DIS	W		05:00P-06:10P		Merrill Acad 003	Staff	
23442		LALS-I-01I		Discussion		DIS	Th		08:30A-09:40A		Crown Clrm 201	Staff	
23443		LALS-I-01J		Discussion		DIS	Th		07:30P-08:40P		Soc Sci 2 363	Staff	
23711		LALS-I-01K		Discussion		DIS	F		12:30P-01:40P		Soc Sci 2 171	Staff	
23712		LALS-I-01L		Discussion		DIS	F		02:00P-03:10P		Merrill Acad 002	Staff	
23097		LALS-10-01		Bridging LALS	5	E	LEC	MWF	12:30P-01:40P		Steven Acad 175	Arredondo,G.F.	
23098		LALS-10-01A		Discussion		DIS	M		05:00P-06:10P		Soc Sci 1 153	Staff	
23099		LALS-10-01B		Discussion		DIS	M		06:30P-07:40P		Soc Sci 1 153	Staff	
23100		LALS-10-01C		Discussion		DIS	T		08:30A-09:40A		Hum & Soc Sci 350	Staff	
23101		LALS-10-01D		Discussion		DIS	F		08:00A-09:10A		Soc Sci 2 171	Staff	
24231		LALS-80F-01		Latinos In The U.S.	5	3E	LEC	TTh	08:00A-09:45A		Soc Sci 2 075	Lopez,M.F.	
16789		LALS-80Q-01		Musica Latina	5	3E	LEC	W	05:00P-08:45P		Soc Sci 2 075	Landau,G.	
23713		LALS-80X-01		Central Am Peoples	5	5E	LEC	MWF	02:00P-03:10P		Soc Sci 2 071	Rivas,C.M.	
22295		LALS-81A-01		Mexican Folk Dance	2	A	STU	M	07:00P-10:00P		E Fieldhouse	Najera Ramirez,O.	
				<i>Also offered as ANTH 81A</i>				F	06:00P-08:00P		E Fieldhouse		
								Su			04:00P-07:00P	E Fieldhouse	
24694		LALS-110B-01		Andina Hoy	5	E	LEC	MW	05:00P-06:45P		Hum & Soc Sci 350	Delgado,P.G.	R
24232		LALS-140-01		Rural Mex In Crisis	5	E	LEC	TTh	10:00A-11:45A		Merrill Acad 130	Fox,J.A.	
23714		LALS-143J-01		Global Politic Econ	5		LEC	TTh	10:00A-11:45A		Soc Sci 2 179	Borrogo,J.G.	
23715		LALS-152-01		Media & Commodities	5	E	LEC	MW	05:00P-06:45P		Cowell Com 134	Rivas,C.M.	
21088		LALS-173-01		Lat Am Immigr To Us	5	E	LEC	TTh	02:00P-03:45P		Soc Sci 2 075	Jonas,S.L.	
23716		LALS-173-01A		Discussion		DIS	W		05:00P-06:10P		Crown Clrm 208	Staff	
23717		LALS-173-01B		Discussion		DIS	W		06:30P-07:40P		Crown Clrm 208	Staff	
24233		LALS-175-01		Migratrn, Gndr, Hlth	5	E	LEC	TTh	12:00P-01:45P		J Baskin Engr 165	Zavella,P.J.	R
		LALS-190-XXX		Internship	5		IND		12:00A-12:00A			Staff	
				<i>See sponsoring agency for class number</i>									
		LALS-190F-XXX		Internship	2		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		LALS-192-XXX		Directed Stu Teach	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		LALS-193-XXX		Field Study	5		FLI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
16817		LALS-194N-01		Las Izquierdas L Am	5	E	SEM	W	05:00P-08:30P		Merrill Acad 132	Jonas,S.L.	R
		LALS-195B-XXX		Senior Thesis	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		LALS-198-XXX		Field Study	5		FLI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		LALS-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
24695		LALS-230-01		PolEcologyLatinAmer	5		SEM	T	02:00P-05:00P		Merrill Acad 039	Staff	R
<b>Legal Studies</b>													
16916		LGST-10-01		Intro Legal Process	5	S	LEC	MW	05:00P-06:45P		Earth&Marine B206	Coonerty,R.E.	
16917		LGST-10-01A		Discussion		DIS	M		08:00A-09:10A		Merrill Acad 130	Staff	
16918		LGST-10-01B		Discussion		DIS	M		02:00P-03:10P		Eight Acad 252	Staff	
16919		LGST-10-01C		Discussion		DIS	M		03:30P-04:40P		Eight Acad 252	Staff	
16920		LGST-10-01D		Discussion		DIS	T		02:00P-03:10P		Porter Acad 148	Staff	
16921		LGST-10-01E		Discussion		DIS	W		12:30P-01:40P		Porter Acad 148	Staff	
16922		LGST-10-01F		Discussion		DIS	W		03:30P-04:40P		Porter Acad 148	Staff	
22032		LGST-10-01G		Discussion		DIS	Th		08:30A-09:40A		Cowell Acad 113	Staff	
22668		LGST-10-01H		Discussion		DIS	Th		04:00P-05:10P		Eight Acad 252	Staff	
23536		LGST-10-01I		Discussion		DIS	F		08:00A-09:10A		Eight Acad 250	Staff	
23537		LGST-10-01J		Discussion		DIS	F		12:30P-01:40P		Porter Acad 144	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24035		LGST-105A-01		Ancient Pol Thought	5	LEC	MWF		11:00A-12:10P		Thim Lecture 001	Mathiowetz,D.P.	R
<i>Enroll in lecture and associated discussion section; also offered as POLI 105A</i>													
24036		LGST-105A-01A		Discussion		DIS	M		02:00P-03:10P		Crown Clrm 208	Staff	R
24037		LGST-105A-01B		Discussion		DIS	T		12:00P-01:10P		Crown Clrm 208	Staff	R
24038		LGST-105A-01C		Discussion		DIS	Th		06:00P-07:10P		Crown Clrm 208	Staff	R
24039		LGST-105A-01D		Discussion		DIS	Th		07:30P-08:40P		Crown Clrm 208	Staff	R
22801		LGST-114-01		Anti-Sem/Legal System	5	LEC	TTh		10:00A-11:45A		Crown Clrm 208	Staff	R
24047		LGST-120B-01		Democ Amer Pol Dev	5	LEC	TTh		02:00P-03:45P		Oakes Acad 105	Brown,M.K.	R
<i>Enroll in lecture and associated discussion section; also offered as POLI 120B</i>													
24048		LGST-120B-01A		Discussion		DIS	M		09:30A-10:40A		Crown Clrm 208	Staff	
24049		LGST-120B-01B		Discussion		DIS	T		08:30A-09:40A		Crown Clrm 208	Staff	
24050		LGST-120B-01C		Discussion		DIS	W		08:00A-09:10A		Crown Clrm 208	Staff	
24051		LGST-120B-01D		Discussion		DIS	W		02:00P-03:10P		Crown Clrm 208	Staff	
24052		LGST-120B-01E		Discussion		DIS	Th		04:00P-05:10P		Oakes Acad 106	Staff	
24053		LGST-120B-01F		Discussion		DIS	F		09:30A-10:40A		Crown Clrm 208	Staff	
23905		LGST-128-01		Povrty/Public Policy	5	WE LEC	TTh		08:00A-09:45A		Cowell Clrm 131	Staff	R
<i>Also offered as ECON 128</i>													
24054		LGST-128I-01		Race & Crimnl Justi	5	LEC	TTh		08:00A-09:45A		Oakes Acad 105	Fukurai,H.	R
<i>Enroll in lecture and associated discussion section; also offered as SOCY 128I</i>													
24055		LGST-128I-01A		Discussion		DIS	M		09:30A-10:40A		Porter Acad 148	Staff	
24056		LGST-128I-01B		Discussion		DIS	M		12:30P-01:40P		Porter Acad 148	Staff	
24057		LGST-128I-01C		Discussion		DIS	W		02:00P-03:10P		Porter Acad 144	Staff	
24058		LGST-128I-01D		Discussion		DIS	F		11:00A-12:10P		Porter Acad 144	Staff	
23718		LGST-149-01		Envr Law & Policy	5	LEC	TTh		12:00P-01:45P		PhysSciences 130	Staff	R
22672		LGST-157-01		Political Jurisprudence	5	LEC	MWF		11:00A-12:10P		Crown Clrm 208	Lozano,B.J.	R
23719		LGST-159-01		Property and the Law	5	LEC	MWF		03:30P-04:40P		Crown Clrm 208	Staff	R
22923		LGST-162-01		Legal Env Business	5	LEC	MW		05:00P-06:45P		PhysSciences 110	Bosso,R.E.	R
<i>Also offered as ECON 162</i>													

## Linguistics

16945		LING-52-01		Syntax I	5	H LEC	MWF		09:30A-10:40A		Cowell Clrm 131	Chung,S.	R
16946		LING-52-01A		Discussion		DIS	T		08:30A-09:40A		Porter Acad 249	Staff	
16947		LING-52-01B		Discussion		DIS	T		12:00P-01:10p		Porter Acad 249	Staff	
22694		LING-53-01		Semantics I	5	H LEC	MWF		11:00A-12:10P		PhysSciences 114	Anand,P.	
22695		LING-53-01A		Discussion		DIS	W		03:30P-04:40P		Oakes Acad 222	Staff	
22696		LING-53-01B		Discussion		DIS	W		05:00P-06:10P		Oakes Acad 222	Staff	
22697		LING-53-01C		Discussion		DIS	Th		08:30A-09:40A		Soc Sci 2 167	Staff	
16948		LING-101-01		Phonology I	5	W LEC	TTh		08:00A-09:45A		PhysSciences 114	Mester,R.A.	R
21089		LING-101-01A		Discussion		DIS	W		08:00A-09:10A		Cowell Acad 216	Staff	
16949		LING-101-01B		Discussion		DIS	W		09:30A-10:40A		Cowell Acad 216	Staff	
16950		LING-101-01C		Discussion		DIS	W		02:00P-03:10P		Cowell Acad 216	Staff	
23550		LING-101-01D		Discussion		DIS	W		03:30P-04:40P		Cowell Acad 216	Staff	
24692		LING-124-01		Language Typology	5	SEM	MWF		09:30A-10:40A		Soc Sci 2 179	Staff	R
23163		LING-125-01		Fndn Ling Theory	5	SEM	M		05:00P-08:30P		J Baskin Engr 165	Anand,P.	R
24470		LING-151-01		Phonetic Analysis	5	LEC	MWF		12:30P-01:40P		Soc Sci 1 161	Staff	R
24471		LING-151-01A		Secondary Lab		LBS	W		03:00P-04:00P		MingOng Cmp Lb 108	Staff	
24472		LING-151-01B		Secondary Lab		LBS	W		04:00P-05:00P		MingOng Cmp Lb 108	Staff	
23720		LING-183-01		Structure Of French	5	LEC	TTh		04:00P-05:45P		Cowell Com 134	Farkas,D.F.	R
23721		LING-183-01A		Discussion		DIS	W		03:30P-04:40P		Eight Acad 252	Staff	
24468		LING-187-01		Structur Of Japanes	5	LEC	TTh		10:00A-11:45A		PhysSciences 140	Ito,J.	R
24469		LING-187-01A		Discussion		DIS	W		05:00P-06:10p		Eight Acad 252	Staff	
23103	Y	LING-190-01		Senior Research	2	SEM			**To Be Arranged**			Aissen,J.L.	
23252	Y	LING-190-02		Senior Research	2	SEM			**To Be Arranged**			Anand,P.	
23722	Y	LING-190-03		Senior Research	2	SEM			**To Be Arranged**			Farkas,D.F.	
24473	Y	LING-190-04		Senior Research	2	SEM			**To Be Arranged**			Staff	
24474	Y	LING-190-05		Senior Research	2	SEM			**To Be Arranged**			Staff	
24475	Y	LING-190-06		Senior Research	2	SEM			**To Be Arranged**			Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22281		LING-211-01		Phonology A	5		LEC		**To Be Arranged**			Mester,R.A.	R
17007		LING-219-01		Phonology Seminar	5		SEM		**To Be Arranged**			Padgett,J.	R
17008		LING-221-01		Syntax A	5		LEC		**To Be Arranged**			Hankamer,J.	R
17009		LING-231-01		Semantics A	5		LEC		**To Be Arranged**			Farkas,D.F.	R
23723		LING-239-01		Semantics Seminar	5		LEC		**To Be Arranged**			Brasoveanu,A.	R

### Literature

24605		LIT-42V-01		SDS:Norman O. Brown	5		SEM	MWF	03:30P-04:40P		Crown Clrm 201	Connery,C.L.	
23724		LIT-61M-01		Classical Myth	5	H	LEC	MWF	08:00A-09:10A		Humn Lecture 206	Bassi,K.L.	
<i>Enroll in lecture and associated discussion section</i>													
23725		LIT-61M-01A		Discussion			DIS	M	02:00P-03:10P		Kresge Clrm 323	Staff	
23726		LIT-61M-01B		Discussion			DIS	T	08:30A-09:40A		Kresge Clrm 323	Staff	
23727		LIT-61M-01C		Discussion			DIS	Th	06:00P-07:10P		Kresge Clrm 323	Staff	
23728		LIT-61M-01D		Discussion			DIS	Th	07:30P-08:40P		Kresge Clrm 323	Staff	
23729		LIT-61M-01E		Discussion			DIS	F	02:00P-03:10P		Kresge Clrm 323	Staff	
24422		LIT-80N-01		U.S. Latino Express	5	4E	LEC	MWF	11:00A-12:10P		Humn Lecture 206	Gruesz,K.S.	
<i>Enroll in lecture and associated discussion section</i>													
24423		LIT-80N-01A		Discussion			DIS	M	03:30P-04:40P		Kresge Clrm 323	Staff	
24424		LIT-80N-01B		Discussion			DIS	T	06:00P-07:10P		Kresge Clrm 323	Staff	
24425		LIT-80N-01C		Discussion			DIS	T	07:30P-08:40P		Kresge Clrm 323	Staff	
24426		LIT-80N-01D		Discussion			DIS	W	02:00P-03:10P		Kresge Clrm 323	Staff	
24427		LIT-80N-01E		Discussion			DIS	F	08:00A-09:10A		Kresge Clrm 323	Staff	
17098		LIT-101-01		Theory & Interpretn	5	W	LEC	TTh	08:00A-09:45A		Earth&Marine B206	Kinoshita,S.A.	R
<i>Enroll in lecture and associated discussion section</i>													
17099		LIT-101-01A		Discussion			DIS	T	06:00P-07:10P		Oakes Acad 102	Staff	
17100		LIT-101-01B		Discussion			DIS	T	07:30P-08:40P		Oakes Acad 102	Staff	
17101		LIT-101-01C		Discussion			DIS	W	08:00A-09:10A		Cowell Acad 113	Staff	
21090		LIT-101-01D		Discussion			DIS	W	03:30P-04:40P		Kresge Clrm 323	Staff	
21091		LIT-101-01E		Discussion			DIS	Th	04:00P-05:10P		Eight Acad 250	Staff	
23222		LIT-101-01F		Discussion			DIS	Th	08:00P-09:10P		Eight Acad 250	Staff	
23730		LIT-101-01G		Discussion			DIS	F	12:30P-01:40P		PhysSciences 140	Staff	
17102		LIT-200-01		Proseminar	5		SEM	T	10:00A-01:45P		Humanities I 620	Godzich,W.B.	R
22546		LIT-201-01		Pedagogy of Literat	1		SEM		**To Be Arranged**			Staff	R

### Creative Writing

17201		LTCR-10-01		Intro Creative Writ	5	A	SEM	MW	07:00P-08:45P		Soc Sci 2 141	Staff	R
								T	07:00P-09:00P		Humn Lecture 206	Staff	
22282		LTCR-10-02		Intro Creative Writ	5	A	SEM	MW	07:00P-08:45P		Cowell Acad 223	Staff	R
								T	07:00P-09:00P		Humn Lecture 206	Staff	
22283		LTCR-10-03		Intro Creative Writ	5	A	SEM	TTh	04:00P-05:45P		Porter Acad 249	Staff	R
								T	07:00P-09:00P		Humn Lecture 206	Staff	
22284		LTCR-10-04		Intro Creative Writ	5	A	SEM	TTh	04:00P-05:45P		Thimann Lab 101	Staff	R
								T	07:00P-09:00P		Humn Lecture 206	Staff	
17202	Y	LTCR-52-01		Inter Fiction Writing	5	A	SEM	MW	05:00P-06:45P		Soc Sci 2 141	Sanders-Self,M.L.	
<i>See Enrollment Conditions for instructions</i>													
								T	07:00P-09:00P		Humn Lecture 206	Staff	
17203	Y	LTCR-53-01		Inter Poetry Writing	5	A	SEM	TTh	12:00P-01:45P		Cowell Acad 223	Young,G.E.	
<i>See Enrollment Conditions for instructions</i>													
								T	07:00P-09:00P		Humn Lecture 206	Staff	
17204		LTCR-180-01		Adv Writing-Fiction	5	A	SEM	TTh	04:00P-05:45P		Cowell Acad 223	Yamashita,K.T.	R
								T	07:00P-09:00P		Humn Lecture 206	Staff	
21092		LTCR-183-01		Adv Writing-Poetry	5	A	SEM	TTh	12:00P-01:45P		Hum & Soc Sci 250	Mackey,N.E.	R
								T	07:00P-09:00P		Humn Lecture 206	Staff	

### English-Language Literatures

23165		LTEL-103A-01		Lit & Cltr to 1740	5		LEC	TTh	12:00P-01:45P		Kresge Clrm 323	Hendricks,M.J.	
23731		LTEL-155B-01		Regions Amer Lit	5		LEC	TTh	02:00P-03:45P		Kresge Clrm 321	Wilson,R.J.	
<i>Enroll in lecture and associated discussion section</i>													
23732		LTEL-155B-01A		Discussion			DIS	W	08:00A-09:10A		Kresge Clrm 323	Staff	
23733		LTEL-155B-01B		Discussion			DIS	Th	06:00P-07:10P		Oakes Acad 102	Staff	
23734		LTEL-155B-01C		Discussion			DIS	Th	07:30P-08:40P		Oakes Acad 102	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23735		LTEL-155B-01D		Discussion		DIS	F		03:30P-04:40P		Kresge Clrm 323	Staff	
23736		LTEL-160C-01		Postcolonial Writin	5	LEC	MWF		02:00P-03:10P		Kresge Clrm 325	Scheese,E.A.	
23737		LTEL-190A-01		Individual Authors	5	SEM	TTh		10:00A-11:45A		J Baskin Engr 372	Mackey,N.E.	R
23738		LTEL-190A-02		Individual Authors	5	SEM	MW		05:00P-06:45P		Soc Sci 2 159	Wilson,R.J.	R
22725		LTEL-280-01		English Lang Lit	5	SEM	W		03:30P-06:30P		Humanities I 620	Berger,H. Robinson,F.G.	R
<b>French Literature</b>													
23739		LTFR-131-01		The Middle Ages	5	SEM	TTh		04:00P-05:45P		Merrill Acad 003	Kinoshita,S.A.	
				<i>Taught in conjunction with LTFR 230</i>									
22732		LTFR-230-01		Lit & Culture Hist	5	SEM	TTh		04:00P-05:45P		Merrill Acad 003	Kinoshita,S.A.	R
				<i>Taught in conjunction with LTFR 131</i>									
<b>German Literature</b>													
24556		LTGE-167-01		German Lit & Film	5	SEM	MWF		11:00A-12:10P		Kresge Clrm 319	Staff	
<b>Greek Literature</b>													
24476		LTGR-105-01		Spec Topics Grk Lit	5	SEM	TTh		10:00A-11:45A		Cowell Acad 216	Selden,D.	
				<i>Taught in conjunction with LTPR 102</i>									
<b>Italian Literature</b>													
22735		LTIT-102-01		Intro Italian Lit	5	SEM	TTh		02:00P-03:45P		Cowell Acad 223	Brose,M.R.	
<b>Latin Literature</b>													
22734		LTIN-104-01		Special Topics	5	LEC	MWF		02:00P-03:10P		Soc Sci 2 363	Walsh,T.R.	
<b>Modern Literary Studies</b>													
24477		LTMO-124A-01		18Th-C To Modernism	5	LEC	TTh		12:00P-01:45P		Soc Sci 2 075	Terdiman,R.	
				<i>Enroll in lecture and associated discussion section</i>									
24478		LTMO-124A-01A		Discussion		DIS	T		08:00P-09:10P		Porter Acad 144	Staff	
24479		LTMO-124A-01B		Discussion		DIS	W		08:00A-09:10A		Eight Acad 250	Staff	
24480		LTMO-125N-01		The Horror Film	5	LEC	TTh		06:00P-07:45P		J Baskin Engr 152	Leicester,H.M.	
				<i>Enroll in lecture and associated discussion section</i>									
24481		LTMO-125N-01A		Discussion		DIS	W		05:00P-06:10P		Porter Acad 148	Staff	
24482		LTMO-125N-01B		Discussion		DIS	W		06:30P-07:40P		Porter Acad 148	Staff	
24483		LTMO-125N-01C		Discussion		DIS	Th		04:00P-05:10P		Porter Acad 148	Staff	
24484		LTMO-125N-01D		Discussion		DIS	F		02:00P-03:10P		Porter Acad 148	Staff	
24485		LTMO-144E-01		Hebrew Poetry	5	LEC	MW		07:00P-08:45P		Eight Acad 242	Staff	
24625		LTMO-160K-01		Great French Novels	5	LEC	MWF		09:30A-10:40A		Oakes Acad 222	Gaitet,P.	
24486		LTMO-167G-01		Goethe's Faust	5	LEC	TTh		04:00P-05:45P		Steven Acad 150	Nygaard,L.C.	
				<i>Enroll in lecture and associated discussion section</i>									
24487		LTMO-167G-01A		Discussion		DIS	W		08:00A-09:10A		Porter Acad 144	Staff	
24488		LTMO-167G-01B		Discussion		DIS	W		07:00P-08:10P		Eight Acad 250	Staff	
24489		LTMO-167G-01C		Discussion		DIS	Th		08:30A-09:40A		Kresge Clrm 323	Staff	
24490		LTMO-167G-01D		Discussion		DIS	F		03:30P-04:40P		Oakes Acad 102	Staff	
24491		LTMO-190K-01		Readings in Tolstoy	5	SEM	TTh		02:00P-03:45P		Merrill Acad 132	Nickell,W.S.	R
24492		LTMO-219-01		Fem Theory/Hist Per	5	SEM	M		06:00P-09:00P		Humanities I 620	Freccero,C.A.	
24635		LTMO-280-01		Topics in Theory	5	LEC	M		01:00P-04:00P		Humanities I 620	Miller,T.H.	R
<b>Pre- and Early Modern Literatures</b>													
24636		LTPR-102-01		Ancient Literature	5	LEC	TTh		10:00A-11:45A		Cowell Acad 216	Selden,D.	R
				<i>Taught in conjunction with LTGR 105</i>									
24493		LTPR-128-01		Medieval Epic	5	LEC	TTh		10:00A-11:45A		Cowell Acad 113	Leicester,H.M.	
24494		LTPR-131-01		Love/Madness Mediev	5	SEM	MWF		03:30P-04:40P		Steven Acad 150	Jacobs,J.D.	
24495		LTPR-131-01A		Discussion		DIS	T		04:00P-05:10P		Eight Acad 250	Staff	
24496		LTPR-131-01B		Discussion		DIS	W		12:30P-01:40P		Porter Acad 144	Staff	
24497		LTPR-131-01C		Discussion		DIS	Th		08:30A-09:40A		Porter Acad 144	Staff	
24498		LTPR-131-01D		Discussion		DIS	F		08:00A-09:10A		Porter Acad 144	Staff	
<b>Spanish Literature</b>													
23766		LTSP-60-01		Intr Literary Genre	5	HE	LEC	MWF	12:30P-01:40P		Kresge Clrm 325	Silleras-Fernandez,N.	
24499		LTSP-130E-01		Latin Amer Poetry	5	E	LEC	TTh	12:00P-01:45P		Cowell Acad 113	Klahn,N.	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23767		LTSP-135F-01		Cine y Literatura	5	LEC	MW		05:00P-06:45P M		Cowell Acad 113 07:00P-08:45P	Burton-Carvajal,J. Cowell Acad 113	
24500		LTSP-223-01		Spanish Am Colonial	5	SEM	F		12:30P-03:30P		Humanities I 620	Klahn,N.	R

### World Literature and Cultural Studies

23768		LTWL-115A-01		Global Fiction	5	LEC	MW		05:00P-06:45P		Oakes Acad 105	Chude-Sokei,L.O.	
<i>Enroll in lecture and associated discussion section</i>													
23769		LTWL-115A-01A		Discussion		DIS	T		08:30A-09:40A		Porter Acad 144	Staff	
23770		LTWL-115A-01B		Discussion		DIS	T		04:00P-05:10P		Porter Acad 144	Staff	
23771		LTWL-115A-01C		Discussion		DIS	W		11:00A-12:10P		Porter Acad 144	Staff	
23772		LTWL-115A-01D		Discussion		DIS	W		03:30P-04:40P		Porter Acad 144	Staff	
24463		LTWL-115A-01E		Global Fiction	5	LEC	F		02:00P-03:10P		Porter Acad 144	Staff	
23773		LTWL-118-01		Lit Asian Diaspora	5	E LEC	TTh		10:00A-11:45A		Hum & Soc Sci 250	Yamashita,K.T.	
23774		LTWL-209-01		Topics Cultrl Studi	5	SEM	Th		10:00A-01:00P		Cowell Acad 222	Connery,C.L.	R

### Mathematics

*Secondaries begin on Wednesday, October 1.*

17605		MATH-2-01		Col Algebra/Calculus	5	LEC	MWF		03:30P-04:40P		Media Theater M110	Migliore,E.T.	R
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*Sections will be assigned during the first week of class.*

21094		MATH-2-01A		Discussion		DIS	M		05:00P-06:45P		Kresge Clrm 319	Staff	
21095		MATH-2-01B		Discussion		DIS	T		10:00A-11:45A		Crown Clrm 104	Staff	
21096		MATH-2-01C		Discussion		DIS	W		07:00P-08:45P		Cowell Acad 222	Staff	
21097		MATH-2-01D		Discussion		DIS	Th		12:00P-01:45P		Cowell Acad 222	Staff	
21098		MATH-2-01E		Discussion		DIS	M		07:00P-08:45P		Cowell Acad 222	Staff	
21099		MATH-2-01F		Discussion		DIS	T		12:00P-01:45P		Crown Clrm 104	Staff	
21100		MATH-2-01G		Discussion		DIS	W		05:00P-06:45P		Kresge Clrm 319	Staff	
21765		MATH-2-01H		Discussion		DIS	Th		02:00P-03:45P		Cowell Acad 222	Staff	
21766		MATH-2-01I		Discussion		DIS	T		06:00P-07:45P		Crown Clrm 104	Staff	
21767		MATH-2-01J		Discussion		DIS	Th		06:00P-07:45P		Cowell Acad 222	Staff	
21808		MATH-2-01K		Discussion		DIS	Th		08:00A-09:45A		Soc Sci 2 137	Staff	
21809		MATH-2-01L		Discussion		DIS	T		08:00A-09:45A		Soc Sci 2 137	Staff	
23524		MATH-2-01M		Discussion		DIS	TTh		10:00A-11:45A		Merrill Acad 003	Staff	
23525		MATH-2-01N		Discussion		DIS	MW		07:00P-08:45P		Crown Clrm 104	Staff	
23526		MATH-2-01O		Discussion		DIS	TTh		04:00P-05:45P		Crown Clrm 104	Staff	
23558		MATH-2-01P		Discussion		DIS	TTh		08:00P-09:45P		Cowell Acad 222	Staff	
23559		MATH-2-01Q		Discussion		DIS	MW		05:00P-06:45P		Porter Acad 246	Staff	
17606		MATH-3-01		Precalculus	5	Q LEC	MWF		08:00A-09:10A		ClassroomUnit 002	Staff	R

*Sections will be assigned during the first week of class.*

17607		MATH-3-01A		Discussion		DIS	M		05:00P-06:45P		Crown Clrm 203	Staff	
17608		MATH-3-01B		Discussion		DIS	T		08:00A-09:45A		Crown Clrm 203	Staff	
17609		MATH-3-01C		Discussion		DIS	W		05:00P-06:45P		Crown Clrm 203	Staff	
17610		MATH-3-01D		Discussion		DIS	Th		08:00A-09:45A		Crown Clrm 203	Staff	
17611		MATH-3-01E		Discussion		DIS	M		07:00P-08:45P		Crown Clrm 203	Staff	
17612		MATH-3-01F		Discussion		DIS	T		08:00P-09:45P		Crown Clrm 203	Staff	
21101		MATH-3-01G		Discussion		DIS	W		07:00P-08:45P		Crown Clrm 203	Staff	
17613		MATH-3-01H		Discussion		DIS	Th		08:00P-09:45P		Crown Clrm 203	Staff	
17614		MATH-3-01I		Discussion		DIS	T		06:00P-07:45P		Porter Acad 249	Staff	
17615		MATH-3-01J		Discussion		DIS	Th		06:00P-07:45P		Porter Acad 249	Staff	
22558		MATH-3-01K		Discussion		DIS	M		05:00P-06:45P		Thimann Lab 101	Staff	
22559		MATH-3-01L		Discussion		DIS	W		07:00P-08:45P		Thimann Lab 101	Staff	
23437		MATH-3-01M		Discussion		DIS	MW		05:00P-06:45P		Cowell Acad 222	Staff	
23438		MATH-3-01N		Discussion		DIS	MW		07:00P-08:45P		Porter Acad 246	Staff	
23539		MATH-3-01O		Discussion		DIS	TTh		02:00P-03:45P		Crown Clrm 105	Staff	
23540		MATH-3-01P		Discussion		DIS	TTh		08:00A-09:45A		Cowell Acad 222	Staff	
17616		MATH-3-02		Precalculus	5	Q LEC	MWF		03:30P-04:40P		Humn Lecture 206	Staff	R

*Sections will be assigned during the first week of class.*

21810		MATH-3-02A		Discussion		DIS	M		05:00P-06:45P		Crown Clrm 202	Staff	
17617		MATH-3-02B		Discussion		DIS	T		08:00A-09:45A		Soc Sci I 153	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
17618		MATH-3-02C		Discussion		DIS	W		05:00P-06:45P		Crown Clrm 202	Staff	
17619		MATH-3-02D		Discussion		DIS	Th		08:00A-09:45A		Soc Sci I 153	Staff	
17620		MATH-3-02E		Discussion		DIS	M		07:00P-08:45P		Soc Sci I 149	Staff	
22043		MATH-3-02F		Discussion		DIS	T		06:00P-07:45P		Soc Sci I 145	Staff	
22044		MATH-3-02G		Discussion		DIS	W		07:00P-08:45P		Soc Sci I 149	Staff	
22045		MATH-3-02H		Discussion		DIS	Th		06:00P-07:00P		Soc Sci I 145	Staff	
22595		MATH-3-02I		Discussion		DIS	T		08:00P-09:45P		Soc Sci I 145	Staff	
22596		MATH-3-02J		Discussion		DIS	Th		08:00P-09:45P		Soc Sci I 145	Staff	
22597		MATH-3-02K		Discussion		DIS	MW		07:00P-08:45P		Crown Clrm 105	Staff	
22935		MATH-3-02L		Discussion		DIS	TTh		08:00A-09:45A		Porter Acad 246	Staff	
23541		MATH-3-02M		Discussion		DIS	TTh		02:00P-03:45P		Crown Clrm 104	Staff	
23542		MATH-3-02N		Discussion		DIS	TTh		04:00P-05:45P		Crown Clrm 105	Staff	
17621		MATH-11A-01		Calculus with Apps	5	NQ	LEC	MWF	02:00P-03:10P		Media Theater M110	Bauerle,F.	R
<i>Enroll in lecture and associated secondary lab</i>													
17622		MATH-11A-01A		Secondary Lab		LBS	MW		05:00P-06:45P		Eight Acad 250	Staff	
17623		MATH-11A-01B		Secondary Lab		LBS	TTh		06:00P-07:45P		Oakes Acad 106	Staff	
17624		MATH-11A-01C		Secondary Lab		LBS	TTh		12:00P-01:45P		Earth&Marine B210	Staff	
17625		MATH-11A-01D		Secondary Lab		LBS	TTh		04:00P-05:45P		Earth&Marine B214	Staff	
21102		MATH-11A-01E		Secondary Lab		LBS	MW		07:00P-08:45P		Earth&Marine B210	Staff	
23439		MATH-11A-01F		Secondary Lab		LBS	TTh		06:00P-07:45P		Earth&Marine B210	Staff	
23543		MATH-11A-01G		Secondary Lab		LBS	TTh		08:00P-09:45P		Cowell Com 134	Staff	
24064		MATH-11A-01H		Secondary Lab		LBS	TTh		08:00A-09:45A		Oakes Acad 106	Staff	
17626		MATH-11A-02		Calculus with Apps	5	NQ	LEC	MWF	03:30P-04:40P		J Bask Aud 101	Eastman,M.R.	R
<i>Enroll in lecture and associated secondary lab</i>													
17627		MATH-11A-02A		Secondary Lab		LBS	MW		08:00A-09:45A		J Baskin Engr 301A	Staff	
17628		MATH-11A-02B		Secondary Lab		LBS	TTh		10:00A-11:45A		J Baskin Engr 301B	Staff	
17629		MATH-11A-02C		Secondary Lab		LBS	MW		12:00P-01:45P		J Baskin Engr 301B	Staff	
24065		MATH-11A-02D		Secondary Lab		LBS	TTh		06:00P-07:45P		J Baskin Engr 301A	Staff	
17630		MATH-11B-01		Calculus with Apps	5	NQ	LEC	MWF	02:00P-03:10P		Thim Lecture 003	Staff	R
<i>Enroll in lecture and associated secondary lab</i>													
17631		MATH-11B-01A		Secondary Lab		LBS	TTh		02:00P-03:45P		J Baskin Engr 301B	Staff	
17632		MATH-11B-01B		Secondary Lab		LBS	MW		07:00P-08:45P		J Baskin Engr 301B	Staff	
17633		MATH-11B-01C		Secondary Lab		LBS	TTh		02:00P-03:45P		Cowell Com 134	Staff	
17634		MATH-11B-01D		Secondary Lab		LBS	TTh		08:00A-09:45A		Cowell Com 134	Staff	
21103		MATH-11B-01E		Secondary Lab		LBS	MW		05:00P-06:45P		Earth&Marine B210	Staff	
21104		MATH-11B-01F		Secondary Lab		LBS	TTh		08:00P-09:45P		Earth&Marine B210	Staff	
10003		MATH-19A-01		Calc:Sci,Engin,Math	5	NQ	LEC	MWF	02:00P-03:10P		J Bask Aud 101	Eastman,M.R.	R
<i>Enroll in lecture and associated secondary lab</i>													
17635		MATH-19A-01A		Secondary Lab		LBS	TTh		08:00A-09:45A		J Baskin Engr 301A	Staff	
17636		MATH-19A-01B		Secondary Lab		LBS	MW		10:00A-11:45A		J Baskin Engr 301A	Staff	
17637		MATH-19A-01C		Secondary Lab		LBS	TTh		12:00P-01:45P		J Baskin Engr 301B	Staff	
17638		MATH-19A-01D		Secondary Lab		LBS	MW		05:00P-06:45P		J Baskin Engr 301B	Staff	
17639		MATH-19A-01E		Secondary Lab		LBS	TTh		06:00P-07:45P		J Baskin Engr 301B	Staff	
23544		MATH-19A-01F		Secondary Lab		LBS	MW		07:00P-08:45P		Steven Acad 152	Staff	
17640		MATH-19A-02		Calc:Sci,Engin,Math	5	NQ	LEC	MWF	03:30P-04:40P		ClassroomUnit 001	Bauerle,F.	R
<i>Enroll in lecture and associated secondary lab</i>													
17641		MATH-19A-02A		Secondary Lab		LBS	MW		08:00A-09:45A		J Baskin Engr 301B	Staff	
17642		MATH-19A-02B		Secondary Lab		LBS	TTh		10:00A-11:45A		J Baskin Engr 301A	Staff	
17643		MATH-19A-02C		Secondary Lab		LBS	MW		12:00P-01:45P		J Baskin Engr 301A	Staff	
24123		MATH-19A-02D		Secondary Lab		LBS	TTh		08:00P-09:45P		J Baskin Engr 301A	Staff	
17644		MATH-19B-01		Calc:Sci,Engin,Math	5	NQ	LEC	MWF	02:00P-03:10P		Kresge Clrm 321	Staff	R
<i>Enroll in lecture and associated secondary lab</i>													
17645		MATH-19B-01A		Secondary Lab		LBS	TTh		08:00A-09:45A		J Baskin Engr 301B	Staff	
17646		MATH-19B-01B		Secondary Lab		LBS	MW		10:00A-11:45A		J Baskin Engr 301B	Staff	
17647		MATH-19B-01C		Secondary Lab		LBS	TTh		12:00P-01:45P		J Baskin Engr 301A	Staff	
17648		MATH-19B-01D		Secondary Lab		LBS	MW		07:00P-08:45P		J Baskin Engr 301A	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
17649		MATH-19B-01E		Secondary Lab		LBS	TTh		04:00P-05:45P		J Baskin Engr 301B	Staff	
17650		MATH-19B-01F		Secondary Lab		LBS			**To Be Arranged**			Staff	
<i>Enroll in lecture and associated secondary lab</i>													
17651		MATH-20A-01		Honors Calculus	5	NQ	LEC	MWF	03:30P-04:40P		PhysSciences 140	Mitchell,R.R.	R
<i>Enroll in lecture and associated secondary lab</i>													
21746		MATH-20A-01A		Discussion			DIS	TTh	08:00A-09:45A		Soc Sci 2 363	Staff	
21782		MATH-20A-01B		Discussion			DIS	MW	07:00P-08:45P		Soc Sci 2 363	Staff	
17652		MATH-21-01		Linear Algebra	5	Q	LEC	MWF	02:00P-03:10P		PhysSciences 114	Migliore,E.T.	
<i>Enroll in lecture and associated secondary lab</i>													
17653		MATH-21-01A		Discussion			DIS	TTh	12:00P-01:45P		PhysSciences 136	Staff	
17654		MATH-21-01B		Discussion			DIS	MW	07:00P-08:45P		PhysSciences 136	Staff	
17655		MATH-22-01		Calc of Several Var	5		LEC	MWF	03:30P-04:40P		Earth&Marine B206	Tromba,A.J.	R
<i>Enroll in lecture and associated secondary lab</i>													
10002		MATH-22-01A		Secondary Lab			LBS	TTh	08:00A-09:45A		Soc Sci 1 161	Staff	
21811		MATH-22-01B		Secondary Lab			LBS	MW	07:00P-08:45P		Kresge Clrm 323	Staff	
17656		MATH-22-01C		Secondary Lab			LBS	TTh	06:00P-07:45P		J Baskin Engr 165	Staff	
17657		MATH-22-01D		Secondary Lab			LBS	MW	07:00P-08:45P		J Baskin Engr 372	Staff	
21812		MATH-22-01E		Secondary Lab			LBS	TTh	08:00A-09:45A		Steven Acad 152	Staff	
17658		MATH-22-01F		Secondary Lab			LBS	TTh	06:00P-07:45P		Steven Acad 152	Staff	
22587		MATH-22-01G		Secondary Lab			LBS	TTh	08:00P-09:45P		Steven Acad 152	Staff	
22588		MATH-22-01H		Secondary Lab			LBS	TTh	08:00P-09:45P		J Baskin Engr 372	Staff	
17659		MATH-23A-01		Multivariable Calc	5		LEC	MWF	12:30P-01:40P		J Bask Aud 101	Mitchell,R.R.	R
<i>Enroll in lecture and associated secondary lab</i>													
17660		MATH-23A-01A		Secondary Lab			LBS	MW	02:00P-03:45P		J Baskin Engr 301B	Staff	
17661		MATH-23A-01B		Secondary Lab			LBS	MW	07:00P-08:45P		Earth&Marine B214	Staff	
17662		MATH-23A-01C		Secondary Lab			LBS	TTh	06:00P-07:45P		Eight Acad 250	Staff	
17663		MATH-23A-01D		Secondary Lab			LBS	TTh	08:00A-09:45A		Earth&Marine B214	Staff	
17664		MATH-23B-01		Multivariable Calc	5		LEC	TTh	10:00A-11:45A		Steven Acad 150	Ginzburg,V.	R
<i>Enroll in lecture and associated secondary lab</i>													
17665		MATH-23B-01A		Secondary Lab			LBS	MW	02:00P-03:45P		J Baskin Engr 301A	Staff	
17666		MATH-23B-01B		Secondary Lab			LBS	TTh	02:00P-03:10P		Nat Sci Annex 102	Staff	
17667		MATH-30-01		Math Problm Solving	5		LEC	MWF	02:00P-03:10P		J Baskin Engr 372	Cooperstein,B.N.	R
		MATH-99-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
17671		MATH-100-01		Intr Proof/Prb Solv	5		LEC	MWF	02:00P-03:10P		Engineer 2 192	Mason,G.	R
17672		MATH-100-01A		Discussion			DIS	T	08:30A-09:40A		Soc Sci 1 149	Staff	
17673		MATH-100-01B		Discussion			DIS	Th	06:00P-07:10P		Soc Sci 1 149	Staff	
17674		MATH-103-01		Complex Analysis	5		LEC	MWF	11:00A-12:10P		Earth&Marine B210	Staff	R
17675		MATH-103-01A		Discussion			DIS	W	03:30P-04:40P		Soc Sci 2 363	Staff	
17676		MATH-103-01B		Discussion			DIS	T	06:00P-07:10P		Soc Sci 2 363	Staff	
17677		MATH-106-01		Ordinary Diff Equas	5		LEC	MWF	09:30A-10:40A		J Baskin Engr 165	Staff	R
22431		MATH-110-01		Intro Number Theory	5	Q	LEC	MWF	09:30A-10:40A		PhysSciences 110	Weissman,M.	R
22432		MATH-110-01A		Discussion			DIS	T	08:30A-09:40A		PhysSciences 136	Staff	
22433		MATH-110-01B		Discussion			DIS	Th	02:00P-03:10P		PhysSciences 140	Staff	
24138		MATH-111A-01		Algebra	5		LEC	MWF	12:30P-01:40P		Earth&Marine B210	Cooperstein,B.N.	R
23055		MATH-124-01		Intro To Topology	5		LEC	TTh	10:00A-11:45A		J Baskin Engr 165	Tamanoi,H.	R
24139		MATH-124-01A		Discussion			DIS	M	11:00A-12:10P		Crown Clrm 104	Staff	
24142		MATH-124-01B		Discussion			DIS	W	03:30P-04:40P		Crown Clrm 104	Staff	
17678		MATH-128A-01		Classical Geometry	5		LEC	MWF	12:30P-01:40P		N. Sci Annex 102	Montgomery,R.	R
23527		MATH-128A-01A		Discussion			DIS	W	09:30A-10:40A		Soc Sci 2 363	Staff	
23528		MATH-128A-01B		Discussion			DIS	Th	06:00P-07:10P		Soc Sci 2 363	Staff	
		MATH-188-XXX		Supervised Teaching	5		IND		**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
		MATH-195-XXX		Senior Thesis	5		IND		**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
		MATH-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21105		MATH-200-01		Algebra I	5	LEC	MW		10:00A-11:45A		J Baskin Engr 302	Boltje,R.	
21901		MATH-203-01		Algebra IV	5	LEC	MW		02:00P-03:45P		J Baskin Engr 360	Weissman,M.	R
21902		MATH-204-01		Analysis I	5	LEC	TTh		10:00A-11:45A		J Baskin Engr 360	Schonbek,M.	
21903		MATH-208-01		Manifolds I	5	LEC	TTh		12:00P-01:45P		J Baskin Engr 302	Lewis,D.K.	
23056		MATH-211-01		Algebraic Topology	5	LEC	TTh		02:00P-03:45P		J Baskin Engr 360	Tamanoi,H.	
23057		MATH-213A-01		Partial Dif Eqtns I	5	LEC	TTh		02:00P-03:45P		J Baskin Engr 358	Schonbek,M.	
24148		MATH-225A-01		Lie Algebras	5	LEC	MW		12:00P-01:45P		J Baskin Engr 360	Dong,C.	
24149		MATH-238-01		Ellip Func/Mod Form	5	LEC	MW		10:00A-11:45A		J Baskin Engr 360	Mason,G.	
17822		MATH-292-01		Seminar	0	SEM	TTh		04:00P-05:45P		J Baskin Engr 301A	Lewis,D.K.	
		MATH-297A-XXX		Independent Study	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		MATH-298-XXX		Independent Study	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											
		MATH-299A-XXX		Thesis Research	5	IND			**To Be Arranged**			Staff	
		<i>See sponsoring agency for class number</i>											

## Music

10004	Y	MUSC-1C-01		Concert Choir	2	A	STU	MW	05:00P-06:45P		Music Center 131	Staff	
		<i>See Enrollment Conditions for instructions</i>											
18136	Y	MUSC-2-01		Univ Orchestra	2	A	STU	TTh	05:00P-07:00P		Music Center 114	Paiement,N.A.	
		<i>See Enrollment Conditions for instructions</i>											
18137	Y	MUSC-3-01		Large Jazz Ensemble	2	A	STU	W	04:00P-06:00P		Music Center 114	Klevan,R.	
		<i>See Enrollment Conditions for instructions</i>											
18138	Y	MUSC-4A-01		Lat Am Ensem: Voces	2	A	STU	TTh	06:00P-07:30P		Music Center 131	Nieves-Miranda,D.I.	
		<i>See Enrollment Conditions for instructions</i>											
18139	Y	MUSC-4B-01		Lat Am En: Taki Nan	2	A	STU	TTh	07:30P-09:30P		Music Center 131	Nieves-Miranda,D.I.	
		<i>See Enrollment Conditions for instructions</i>											
18140	Y	MUSC-5A-01		Beg W Java Gamelan	2	A	STU	W	02:00P-04:00P		Gamelan Stu 230B	Sumarna,U.	
		<i>See Enrollment Conditions for instructions</i>											
10005	Y	MUSC-5B-01		Int W Java Gamelan	2	A	STU	W	11:30A-01:30P		Gamelan Stu 230B	Sumarna,U.	
		<i>See Enrollment Conditions for instructions</i>											
18141	Y	MUSC-5C-01		Adv W Java Gamelan	2	A	STU	M	07:00P-09:00P		Gamelan Stu 230B	Sumarna,U.	
		<i>See Enrollment Conditions for instructions</i>											
22289	Y	MUSC-6-01		ClassicalGuitarEns	2	A	STU	MW	07:00P-09:00P		Music Center 131	Ozgen,M.	
		<i>See Enrollment Conditions for instructions</i>											
18142	Y	MUSC-9-01		Wind Ensemble	2	A	STU	MW	06:30P-08:00P		Music Center 114	Klevan,R.	
		<i>See Enrollment Conditions for instructions</i>											
23775	Y	MUSC-10-01		Eurasian Ensemble	2	A	STU	M	04:00P-06:00P		Music Center 114	Merchant,T.H.	
23242		MUSC-11A-01		IntrWesternArtMusic	5	HA	LEC	MWF	11:00A-12:10P		Music Center 101	Miller,L.E.	
23776		MUSC-11D-01		Intr to World Music	5	HAE	LEC	MWF	12:30P-01:40P		Music Center 101	Schechter,J.M.	
10006		MUSC-13-01		Beg Theory & Mus I	5		LEC	TTh	10:00A-11:45A		Music Center 131	Sackett,J.	R
23622		MUSC-13-01A		Secondary Studio			STS	TTh	12:00P-01:00P		Music Center 130	Staff	
23623		MUSC-13-01B		Secondary Studio			STS	TTh	01:00P-02:00P		Music Center 130	Staff	
23624		MUSC-13-01C		Secondary Studio			STS	TTh	02:00P-03:00P		Music Center 130	Staff	
23625		MUSC-13-01D		Secondary Studio			STS	MW	09:00A-10:00A		Music Center 134	Staff	
23626		MUSC-13-01E		Secondary Studio			STS	MW	10:00A-11:00A		Music Center 134	Staff	
23627		MUSC-13-01F		Secondary Studio			STS	MW	11:00A-12:00P		Music Center 134	Staff	
10008	Y	MUSC-30A-01		Theor, Lit, Music I	5		LEC	MW	09:30A-10:40A		Music Center 131	Nauert,P.	
								MWF	11:00A-12:10P		Music Center 130	Ezerova,M.V.	
		<i>See Enrollment Conditions for instruction; concurrent enrollment in MUSC 30L is required</i>											
18143	Y	MUSC-30A-02		Theor, Lit, Music I	5		LEC	MW	09:30A-10:40A		Music Center 131	Nauert,P.	
								MWF	11:00A-12:10P		Music Center 136	Arulanantham,E.L.	
		<i>See Enrollment Conditions for instructions; concurrent enrollment in MUSC 30L is required</i>											
21729	Y	MUSC-30A-03		Theor, Lit, Music I	5		LEC	MW	09:30A-10:40A		Music Center 131	Nauert,P.	
								MWF	12:30P-01:40P		Music Center 130	Ezerova,M.V.	
		<i>See Enrollment Conditions for instructions; concurrent enrollment in MUSC 30L is required</i>											

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
18144	Y	MUSC-30L-01		Theory,Lit,Music I	2		LAB		**To Be Arranged**			Ezerova,M.V.	
				<i>See Enrollment Conditions for instructions; concurrent enrollment in MUSC 30A is required.</i>									Nauert,P.
18145		MUSC-30L-01A		Secondary Lab			LBS		**To Be Arranged**			Staff	
18146		MUSC-30L-01B		Secondary Lab			LBS		**To Be Arranged**			Staff	
18147		MUSC-30L-01C		Secondary Lab			LBS		**To Be Arranged**			Staff	
18148		MUSC-30L-01D		Secondary Lab			LBS		**To Be Arranged**			Staff	
18149		MUSC-30L-01E		Secondary Lab			LBS		**To Be Arranged**			Staff	
18150	Y	MUSC-30L-02		Theory,Lit,Music I	2		LAB		**To Be Arranged**			Arulanantham,E.L.	
				<i>Concurrent enrollment in MUSC 30A 02 is required.</i>									Nauert,P.
18151		MUSC-30L-02A		Secondary Lab			LBS		**To Be Arranged**			Staff	
18152		MUSC-30L-02B		Secondary Lab			LBS		**To Be Arranged**			Staff	
18153		MUSC-30L-02C		Secondary Lab			LBS		**To Be Arranged**			Staff	
18154		MUSC-30L-02D		Secondary Lab			LBS		**To Be Arranged**			Staff	
18155		MUSC-30L-02E		Secondary Lab			LBS		**To Be Arranged**			Staff	
21730	Y	MUSC-30L-03		Theory,Lit,Music I	2		LAB		**To Be Arranged**			Ezerova,M.V.	
				<i>Concurrent enrollment in MUSC 30A 03 is required.</i>									Nauert,P.
21731	Y	MUSC-30L-03A		Secondary Lab			LBS		**To Be Arranged**			Staff	
21732	Y	MUSC-30L-03B		Secondary Lab			LBS		**To Be Arranged**			Staff	
21733	Y	MUSC-30L-03C		Secondary Lab			LBS		**To Be Arranged**			Staff	
21734	Y	MUSC-30L-03D		Secondary Lab			LBS		**To Be Arranged**			Staff	
21735	Y	MUSC-30L-03E		Secondary Lab			LBS		**To Be Arranged**			Staff	
18156	Y	MUSC-51-01		Vocal Repertoire Class	2	A	STU	TTh	02:00P-03:00P		Music Center 131	Staufenbiel,B.J.	
				<i>See Enrollment Conditions for instructions.</i>									
18157	Y	MUSC-51-02		Vocal Repertoire Class	2	A	STU	TTh	03:00P-04:00P		Music Center 131	Maginnis,P.	
				<i>See Enrollment Conditions for instructions.</i>									
18158	Y	MUSC-60-01		Grp Instru In Piano	2		STU	TTh	08:45A-09:45A		Music Center 134	Arulanantham,E.L.	
				<i>See Enrollment Conditions for instructions</i>									
18159	Y	MUSC-60-02		Grp Instru In Piano	2		STU	TTh	09:45A-10:45A		Music Center 134	Arulanantham,E.L.	
				<i>See Enrollment Conditions for instructions</i>									
18160	Y	MUSC-60-03		Grp Instru In Piano	2		STU	TTh	10:45A-11:45A		Music Center 134	Arulanantham,E.L.	
				<i>See Enrollment Conditions for instructions</i>									
18161	Y	MUSC-60-04		Grp Instru In Piano	2		STU	TTh	11:45A-12:45P		Music Center 134	Arulanantham,E.L.	
				<i>See Enrollment Conditions for instructions</i>									
		MUSC-61-XXX		Inv Lsson Half Hour	2		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-62-XXX		Inv Lesson One Hour	3		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-63-XXX		Grp Instrum & Vocal	2		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
23777	Y	MUSC-74-01		Beg Jazz Improv	5		STU	TTh	02:00P-03:45P		Music Center 114	Hester,K.E.	
23778		MUSC-75-01		Jazz Theory I	5	A	LEC	TTh	12:00P-01:45P		Music Center 138	Staff	R
18222		MUSC-80C-01		Hist Electronic Mus	5	6A	LEC	TTh	12:00P-01:45P		Music Center 101	Staff	
23139		MUSC-80P-01		HistoryJewishMusic	5	4AE	LEC	TTh	12:00P-01:45P		Music Center 128	Tchamni,A.	
22750		MUSC-80S-01		Women In Music	5	4A	LEC	TTh	12:00P-01:45P		Music Center 131	Merchant,T.H.	
				<i>Also offered as FMST 80S</i>									
		MUSC-94-XXX		Group Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-99-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-99F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
18244		MUSC-100A-01		Theory,Lit,Music II	5		LEC	MWF	09:30A-10:40A		Music Center 138	Carson,B.L.	R
18245		MUSC-100A-01A		Secondary Studio			STS		**To Be Arranged**			Staff	
18246		MUSC-100A-01B		Secondary Studio			STS		**To Be Arranged**			Staff	
18247		MUSC-100A-01C		Secondary Studio			STS		**To Be Arranged**			Staff	
18248		MUSC-100A-02		Theory,Lit,Music II	5		LEC	MWF	11:00A-12:10P		Music Center 138	Cope,D.H.	R
18249		MUSC-100A-02A		Secondary Studio			STS		**To Be Arranged**			Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
18250		MUSC-100A-02B		Secondary Studio		STS			**To Be Arranged**			Staff	
18251		MUSC-100A-02C		Secondary Studio		STS			**To Be Arranged**			Staff	
18252		MUSC-101C-01		Hist West Art Music	5	LEC	MWF		12:30P-01:40P		Music Center 131	Beal,A.C.	R
22026	Y	MUSC-102-01		University Orchestra	2	A	STU	TTh	05:00P-07:00P		Music Center 114	Paiement,N.A.	
				<i>See Enrollment Conditions for instructions</i>									
23243	Y	MUSC-103-01		Univ Concert Choir	2	A	STU	MW	05:00P-06:45P		Music Center 131	Berman,N.A.	
				<i>See Enrollment Conditions for instructions</i>									
23779		MUSC-120-01		Sem Music Compositi	5		SEM	TTh	12:00P-01:45P		Music Center 136	Jones,D.E.	R
18253		MUSC-125-01		Adv Elec Sound Synt	5		STU	TTh	02:00P-03:45P		Music Center 191A	Elesa,P.Q.	R
18255	Y	MUSC-159A-01		Opera Workshop	2	A	STU	TTh	04:00P-05:45P		Music Center 131	Staufenbiel,B.J.	
				<i>See Enrollment Conditions for instructions.</i>									
18256	Y	MUSC-159B-01		Opera Workshop	3	A	STU	TTh	04:00P-05:45P		Music Center 131	Staufenbiel,B.J.	
				<i>See Enrollment Conditions for instructions.</i>									
		MUSC-161-XXX		Inv Lesson One Hour	3		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-162-XXX		Adv Inv Lsson One H	5		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
22769	Y	MUSC-163-01		Early Music Consort	2		STU	T	02:00P-04:00P		Music Center 128	Treadwell,N.K.	
18311	Y	MUSC-164-01		Jazz Ensembles	2		STU	MW	02:00P-04:00P		Music Center 114	Poplin,S.E.	
				<i>See Enrollment Conditions for instructions.</i>									
		MUSC-165-XXX		Chamber Music Wkshp	2		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
18338	Y	MUSC-166-01		Chamber Singers	2	A	STU	M	03:00P-05:00P		Music Center 131	Paiement,N.A.	
				<i>See Enrollment Conditions for instructions.</i>									
								WF	02:00P-04:00P		Music Center 131		
18339		MUSC-167-01		Wksp Electron Music	2		STU		**To Be Arranged**			Elesa,P.Q.	R
		MUSC-192-XXX		Dir Stu Teach	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-195A-XXX		Senior Thesis	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-195B-XXX		Senior Thesis	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-196A-XXX		Sen Rec W/O Lessons	5		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-196B-XXX		Sen Rec W/Lessons	5		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-199F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
18427		MUSC-200-01		Intro Res Methods	5		SEM	M	04:00P-07:00P		Music Center 136	Treadwell,N.K.	
23843		MUSC-203D-01		Perf Prac Clasc Per	5		SEM	Th	04:00P-07:00P		Music Center 136	Burman-Hall,L.C.	
22771		MUSC-219-01		Technique/Composition	5		SEM	W	04:00P-07:00P		Music Center 136	Kim,H.K.	R
22292		MUSC-252-01		Current Issues Coll	2		SEM	T	04:00P-05:30P		Music Center 131	Burman-Hall,L.C.	R
24577		MUSC-253D-01		Issue Mus Ethngrphy	5		SEM		**To Be Arranged**			Neuman,D.A.	R
		MUSC-261-XXX		Grad Applied Instru	3		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-265-XXX		Grad Ensem Particip	2		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-295-XXX		Directed Reading	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-297-XXX		Independent Study	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
		MUSC-298-XXX		Graduate Recital	5		STI		**To Be Arranged**			Staff	R
				<i>See sponsoring agency for class number</i>									
		MUSC-299-XXX		Thesis Research	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									

## Ocean Sciences

10007	OCEA-1-01	The Oceans	5	NQ	LEC	MWF		11:00A-12:10P			ClassroomUnit 001	Edwards,C.A.	
<i>Enroll in lecture and associated discussion section</i>													
18680	OCEA-1-01A	Discussion			DIS	M		12:30P-01:45P			Earth&Marine D266	Staff	
18681	OCEA-1-01B	Discussion			DIS	M		02:00P-03:15P			Earth&Marine D266	Staff	
18682	OCEA-1-01C	Discussion			DIS	M		03:30P-04:45P			Earth&Marine D266	Staff	
18683	OCEA-1-01D	Discussion			DIS	M		05:00P-06:15P			Earth&Marine D266	Staff	
18684	OCEA-1-01E	Discussion			DIS	M		06:30P-07:45P			Earth&Marine D266	Staff	
18685	OCEA-1-01F	Discussion			DIS	T		09:30A-10:45A			Earth&Marine D266	Staff	
18686	OCEA-1-01G	Discussion			DIS	T		11:00A-12:10P			Earth&Marine D266	Staff	
18687	OCEA-1-01H	Discussion			DIS	T		12:30P-01:45P			Earth&Marine D266	Staff	
10009	OCEA-80A-01	Life In The Sea	5	2	LEC	MWF		12:30P-01:40P			Earth&Marine B206	Silver,M.E.	
<i>Enroll in lecture and associated discussion section</i>													
18689	OCEA-80A-01A	Discussion			DIS	W		02:00P-03:20P			Earth&Marine D266	Staff	
18690	OCEA-80A-01B	Discussion			DIS	W		03:30P-04:50P			Earth&Marine D266	Staff	
18691	OCEA-80A-01C	Discussion			DIS	W		05:00P-06:20P			Earth&Marine D266	Staff	
18692	OCEA-80A-01D	Discussion			DIS	W		06:30P-07:50P			Earth&Marine D266	Staff	
18693	OCEA-80A-01E	Discussion			DIS	Th		09:30A-10:50A			Earth&Marine D266	Staff	
18694	OCEA-80A-01F	Discussion			DIS	Th		11:00A-12:20P			Earth&Marine D266	Staff	
18695	OCEA-80A-01G	Discussion			DIS	Th		12:30P-01:50P			Earth&Marine D266	Staff	
18696	OCEA-80A-01H	Discussion			DIS	Th		02:00P-03:20P			Earth&Marine D266	Staff	
18697	OCEA-80A-01I	Discussion			DIS	Th		03:30P-04:50P			Earth&Marine D266	Staff	
18698	OCEA-80A-01J	Discussion			DIS	Th		05:00P-06:20P			Earth&Marine D266	Staff	
18699	OCEA-80A-01K	Discussion			DIS	Th		06:30P-07:50P			Earth&Marine D266	Staff	
<i>Enroll in lecture and associated discussion section</i>													
18702	OCEA-200-01	Physcl Oceanography	5		LEC	MWF		02:00P-03:10P			Thimann Lab 101	Edwards,C.A.	
21826	OCEA-200-01A	Discussion			DIS	W		12:30P-01:40P			Thimann Lab 101	Staff	
24609	OCEA-211-01	Climate Dynamics	5		LEC	TTh		12:00P-01:45P			Crown Clrm 201	Moore,A.M.	R
24610	OCEA-290H-01	Topics Ocean Optics	5		SEM	TTh		10:00A-11:45A			Thimann Lab 101	Kudela,R.M.	R
18705	OCEA-292-01	Seminar	0		SEM	W		03:30P-05:00P			Earth&Marine A340	McCarthy,M.D.	
18706	OCEA-296-01	Teaching Ocean Sci	2		LEC	M		03:30P-04:30P			J Baskin Engr 169	Edwards,C.A.	R
	OCEA-297A-XXX	Independent Study	5		IND			**To Be Arranged**				Staff	
<i>See sponsoring agency for class number</i>													
	OCEA-297B-XXX	Independent Study	10		IND			**To Be Arranged**				Staff	
<i>See sponsoring agency for class number</i>													
	OCEA-297C-XXX	Independent Study	15		IND			**To Be Arranged**				Staff	
<i>See sponsoring agency for class number</i>													
	OCEA-299A-XXX	Thesis Research	5		IND			**To Be Arranged**				Staff	
<i>See sponsoring agency for class number</i>													
	OCEA-299B-XXX	Thesis Research	10		IND			**To Be Arranged**				Staff	
<i>See sponsoring agency for class number</i>													
	OCEA-299C-XXX	Thesis Research	15		IND			**To Be Arranged**				Staff	
<i>See sponsoring agency for class number</i>													

## Philosophy

22003	PHIL-9-01	Intro To Logic	5	HQ	LEC	MWF		03:30P-04:40P			Kresge Clrm 321	Otte,R.E.	
<i>Discussion section assignment determined first class meeting</i>													
24511	PHIL-9-01A	Discussion			DIS			**To Be Arranged**				Staff	
24512	PHIL-9-01B	Discussion			DIS			**To Be Arranged**				Staff	
24513	PHIL-9-01C	Discussion			DIS			**To Be Arranged**				Staff	
24514	PHIL-9-01D	Discussion			DIS			**To Be Arranged**				Staff	
24515	PHIL-9-01E	Discussion			DIS			**To Be Arranged**				Staff	
24516	PHIL-9-01F	Discussion			DIS			**To Be Arranged**				Staff	
23969	PHIL-28-01	Environmentl Ethics	5	H	LEC	TTh		08:00A-09:45A			ClassroomUnit 001	Staff	
<i>Discussion section assignment determined first class meeting</i>													
24519	PHIL-28-01A	Discussion			DIS			**To Be Arranged**				Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24520		PHIL-28-01B		Discussion		DIS			**To Be Arranged**			Staff	
24521		PHIL-28-01C		Discussion		DIS			**To Be Arranged**			Staff	
24522		PHIL-28-01D		Discussion		DIS			**To Be Arranged**			Staff	
24523		PHIL-28-01E		Discussion		DIS			**To Be Arranged**			Staff	
24524		PHIL-28-01F		Discussion		DIS			**To Be Arranged**			Staff	
24525		PHIL-28-01G		Discussion		DIS			**To Be Arranged**			Staff	
24526		PHIL-28-01H		Discussion		DIS			**To Be Arranged**			Staff	
22279		PHIL-80G-01		Bioethics 21st Cent	5 6	LEC	TTh		02:00P-03:45P		Humn Lecture 206	Staff	
<i>Enroll in lecture and associated discussion section; also offered as BME 80G</i>													
23794		PHIL-80G-01A		Discussion		DIS	M		09:30A-10:40A		Soc Sci 2 363	Staff	
23795		PHIL-80G-01B		Discussion		DIS	M		11:00A-12:10P		Soc Sci 2 363	Staff	
23796		PHIL-80G-01C		Discussion		DIS	M		03:30P-04:40P		Thimann Lab 101	Staff	
23797		PHIL-80G-01D		Discussion		DIS	T		08:30A-09:40A		Crown Clrm 201	Staff	
23798		PHIL-80G-01E		Discussion		DIS	T		07:30P-08:40P		Soc Sci 2 363	Staff	
23799		PHIL-80G-01F		Discussion		DIS	W		08:00A-09:10A		Soc Sci 2 363	Staff	
23800		PHIL-80G-01G		Discussion		DIS	W		12:30P-01:40P		Soc Sci 2 363	Staff	
23801		PHIL-80G-01H		Discussion		DIS	W		03:30P-04:40P		J Baskin Engr 169	Staff	
23802		PHIL-80G-01I		Discussion		DIS	W		07:00P-08:10P		J Baskin Engr 169	Staff	
23803		PHIL-80G-01J		Discussion		DIS	Th		08:30A-09:40A		J Baskin Engr 169	Staff	
23804		PHIL-80G-01K		Discussion		DIS	F		08:00A-09:10A		Crown Clrm 201	Staff	
23805		PHIL-80G-01L		Discussion		DIS	F		12:30P-01:40P		J Baskin Engr 169	Staff	
18846		PHIL-91-01		Ancient Greek Phil	5	LEC	TTh		10:00A-11:45A		Porter Acad 144	Staff	
<i>Discussion section assignment determined first class meeting</i>													
24527		PHIL-91-01A		Discussion		DIS			**To Be Arranged**			Staff	
24528		PHIL-91-01B		Discussion		DIS			**To Be Arranged**			Staff	
24529		PHIL-91-01C		Discussion		DIS			**To Be Arranged**			Staff	
24530		PHIL-91-01D		Discussion		DIS			**To Be Arranged**			Staff	
24696		PHIL-91-01E		Discussion		DIS			**To Be Arranged**			Staff	
24697		PHIL-91-01F		Discussion		DIS			**To Be Arranged**			Staff	
		PHIL-99-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
24622		PHIL-108-01		Phenomenology	5	LEC			**To Be Arranged**			Staff	R
23970		PHIL-121-01		Knowledge&Rationlty	5	LEC	MWF		09:30A-10:40A		Earth&Marine B210	Staff	
23971		PHIL-133-01		Philosophy Of Mind	5	LEC	TTh		06:00P-07:45P		Cowell Com 134	Ellis,J.E.	R
23216		PHIL-142-01		Advanced Ethics	5	LEC	MW		07:00P-08:45P		Cowell Com 134	Guevara,D.E.	R
23224		PHIL-190P-01		MajFigs/ContmpyPhil	5	SEM	Th		10:00A-01:00P		Steven Acad 217	Stone,A.D.	R
<i>Taught in conjunction with PHIL 290P</i>													
23973		PHIL-190W-01		Consciousness	5	SEM	T		01:00P-04:00P		Steven Acad 217	Hoy,D.C.	R
		PHIL-195A-XXX		Senior Essay	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
		PHIL-195B-XXX		Senior Essay	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
		PHIL-199-XXX		Tutorial	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
22800		PHIL-201-01		First Qrtr Seminar	5	SEM			**To Be Arranged**			Roth,P.A.	R
23976		PHIL-256-01		Hist Consciousness	5	SEM	F		12:00P-03:00P		Humanities I 420	Hoy,D.C.	R
23530		PHIL-280-01		Grad Colloquia	2	LEC			**To Be Arranged**			Staff	R
23225		PHIL-290P-01		MajFigs/ContmpyPhil	5	SEM	Th		10:00A-01:00P		Steven Acad 217	Stone,A.D.	R
<i>Taught in conjunction with PHIL 190P</i>													
		PHIL-294-XXX		Teach Related Ind	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
		PHIL-295-XXX		Directed Reading	5	IND			**To Be Arranged**			Staff	
<i>See sponsoring agency for class number</i>													
		PHIL-297-XXX		Independent Study	5	IND			**To Be Arranged**			Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
<b>Physical Education</b>													
19000	Y	PHYE-5A-01		Swimming Lev I (non-swim)	0	STU	TTh		01:00P-02:00P		50 Mtr Pool	Kimball,J.H.	
<i>See Enrollment Conditions for instructions</i>													
19001	Y	PHYE-5A-02		Swimming Level I	0	STU	MW		10:00A-11:00A		50 Mtr Pool	Kimball,J.H.	
<i>See Enrollment Conditions for instructions</i>													
19002	Y	PHYE-5B-01		Swimming Level II	0	STU	MW		09:00A-10:00A		50 Mtr Pool	Kimball,J.H.	
<i>See Enrollment Conditions for instructions</i>													
19003	Y	PHYE-5C-01		Aquat:Swim Levl III	0	STU	MW		10:00A-11:00A		50 Mtr Pool	McCallum,J.R.	
<i>See Enrollment Conditions for instructions</i>													
19004	Y	PHYE-5E-01		Lifeguard Training	0	STU	TTh		09:30A-12:00P		50 Mtr Pool	Musch,K.I.	
<i>See Enrollment Conditions for instructions</i>													
19005	Y	PHYE-5G-01		Swim Conditioning	0	STU	MW		09:00A-10:00A		50 Mtr Pool	McCallum,J.R.	
<i>See Enrollment Conditions for instructions</i>													
10010	Y	PHYE-5R-01		Basic Scuba Diving	0	STU	T		07:00P-09:30P		Cowell Clrm 131	Shin,C.J.	
							W		09:30A-12:00P		50 Mtr Pool		
<b>**To Be Arranged** Ocean</b>													
<i>See Enrollment Conditions for instructions. Class meeting for 5R is Tuesday at 7 p.m. in Cowell 131. If pool lab meets first, go to the lab of your choice (Wed. or Thurs.)</i>													
19007	Y	PHYE-5R-02		Basic Scuba Diving	0	STU	T		07:00P-09:30P		Cowell Clrm 131	Shin,C.J.	
							Th		04:30P-07:00P		50 Mtr Pool		
<b>**To Be Arranged** Ocean</b>													
<i>See Enrollment Conditions for instructions. Class meeting for 5R is Tuesday at 7 p.m. in Cowell 131; if pool lab meets first, go to the lab of your choice (Wed. or Thurs.)</i>													
10011	Y	PHYE-5T-01		Advan Scuba Diving	0	STU	F		05:00P-08:00P		OPERS Conference 211E	Shin,C.J.	
<i>See Enrollment Conditions for instructions. First 2 weeks only; remainder of class TBA (ocean, weekends). Must sign up at the OPERS counter, 2nd Floor.</i>													
19008	Y	PHYE-5U-01		Scuba instruction	0	STU	Su		07:00P-09:00P		Martial Arts	Shin,C.J.	
<i>See Enrollment Conditions for instructions. First meeting only/remainder of class TBA (50m pool, ocean).</i>													
19009	Y	PHYE-5U-01E		Scuba Rescue Diving	0	STU	T		04:00P-06:00P		OPERS Conference 211E	Shin,C.J.	
<i>See Enrollment Conditions for instructions</i>													
19010	Y	PHYE-5U-01N		Scuba Divemaster	0	STU	W		04:00P-06:00P		OPERS Conference 211E	Shin,C.J.	
<i>See Enrollment Conditions for instructions</i>													
19011		PHYE-9B-01		BegDinghySailing	0	STU	M		12:30P-03:00P		Harbor	Kingon,R.L.	
<i>First meeting of 9B held at East Field House, main entrance to administration building; participants must be able to swim.</i>													
<i>Please attend the first meeting even if online enrollment indicates class is full. Classes are for 8 weeks.</i>													
19012		PHYE-9B-02		BegDinghySailing	0	STU	T		09:30A-12:00P		Harbor	Kingon,R.L.	
19013		PHYE-9B-03		BegDinghySailing	0	STU	W		09:30A-12:00P		Harbor	Kingon,R.L.	
19014		PHYE-9B-04		BegDinghySailing	0	STU	Th		09:30A-12:00P		Harbor	Kingon,R.L.	
19015		PHYE-9B-05		BegDinghySailing	0	STU	F		09:30A-12:00P		Harbor	Kilburn,G.B.	
19016		PHYE-9B-06		BegDinghySailing	0	STU	F		12:30P-03:00P		Harbor	Kilburn,G.B.	
19017		PHYE-9C-01		Inter Sail Dinghy	0	STU	T		01:00P-03:30P		Harbor	Kilburn,G.B.	R
<i>First meeting of 9C held at East Field House, main entrance to administration building. Participants must be able to swim.</i>													
<i>Please attend first meeting even if online enrollment indicates that class is full. Classes are for 8 weeks.</i>													
19018		PHYE-9C-02		Inter Sail Dinghy	0	STU	W		12:30P-03:00P		Harbor	Kingon,R.L.	R
19020		PHYE-9E-01		Competitive Sailing	0	STU	WF		03:00P-04:30P		Harbor	Kingon,R.L.	
<i>First meeting of 9E at UCSC Marina, SC Small Craft Harbor.</i>													
19022		PHYE-9H-01		Basic Rowing	0	STU	MW		09:45A-11:30A		Harbor	Kilburn,G.B.	
<i>All 9H and 9J sections meet for 7 weeks only; first class meeting at East Field House main entrance to administration building.</i>													
<i>Participants must be able to swim. Please attend the first meeting even if online enrollment indicates class is full.</i>													
19023		PHYE-9H-02		Basic Rowing	0	STU	TTh		07:45A-09:30A		Harbor	Kilburn,G.B.	
19024		PHYE-9H-03		Basic Rowing	0	STU	TTh		09:30A-11:15A		Harbor	Kilburn,G.B.	
19025		PHYE-9H-04		Basic Rowing	0	STU	TTh		11:15A-01:00P		Harbor	Kilburn,G.B.	
19021		PHYE-9J-01		Intermed Rowing	0	STU	MW		08:00A-09:45A		Harbor	Kilburn,G.B.	
24285		PHYE-9K-01		Ocean Kayaking	0	STU	TTh		09:00A-11:00A		Harbor	Johnston,D.L.	
<i>First meeting of sections 9K held at East Fieldhouse, main entrance to administration building.</i>													
<i>Participants must be able to swim. Please attend the first meeting even if class is full. All 9K sections meet for 5 weeks only.</i>													
24286		PHYE-9K-02		Ocean Kayaking	0	STU	TTh		11:00A-01:00P		Harbor	Johnston,D.L.	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24428		PHYE-9S-01		Inter Keel Sailing	0	STU	T		12:30P-03:00P		Harbor	Kingon,R.L.	R
<i>First meeting of 9S held at East Field House, main entrance to administration building. Participants must be able to swim.</i>													
<i>Please attend first meeting even if online enrollment indicates that class is full. Classes are for 8 weeks.</i>													
19026		PHYE-15B-01		Beginning Basketball	0	STU	MW		01:00P-02:00P		West Gym	Johnson,G.D.	
19027		PHYE-15B-02		Basketball Conditioning	0	STU	TTh		03:00P-04:00P		West Gym	Hammonds,T.M.	
19028		PHYE-15H-01		Racquetball	0	STU	Th		06:00P-08:00P		E Racquet Ct	Bardos,J.S.	
19029		PHYE-15N-01		Beginning Tennis	0	STU	MW		09:00A-10:00A		E Tennis Ct	Ness,E.G.	
19030		PHYE-15N-02		Intermediate Tennis	0	STU	MW		10:00A-11:00A		E Tennis Ct	Ness,E.G.	
22395		PHYE-15N-03		Advanced Tennis	0	STU	MW		11:00A-12:00P		E Tennis Ct	Ness,E.G.	
19031		PHYE-15N-04		Comp Tennis-Women	0	STU	TTh		**To Be Arranged**		E Tennis Ct	Ness,E.G.	
22379		PHYE-15T-01		Beg/Int Volleyball	0	STU	TTh		11:00A-12:00P		West Gym	Teitelbaum,S.B.	
19034		PHYE-15T-02		Int/Adv Volleyball	0	STU	TTh		12:30P-02:00P		West Gym	Teitelbaum,S.B.	
19035		PHYE-20A-01		Ballet I	0	STU	TTh		10:15A-11:45A		Dance Studio	Bergland,V.M.	
19036		PHYE-20A-02		Continuing Ballet I	0	STU	MW		09:00A-10:30A		Dance Studio	Norris,L.K.	
19037		PHYE-20A-03		Ballet II	0	STU	MW		10:30A-12:00P		Dance Studio	Norris,L.K.	
19038		PHYE-20A-04		Ballet III	0	STU	TTh		01:00P-02:30P		Dance Studio	Norris,L.K.	
24287		PHYE-20B-01		Dance - Folk	0	LEC	TTh		12:00P-01:00P		Dance Studio	Cochlin,R.V.	
19040		PHYE-20C-01		Jazz Dance I	0	STU	TTh		02:30P-04:00P		Dance Studio	Norris,L.K.	
19041		PHYE-20C-02		Jazz Dance II	0	STU	MW		12:30P-02:00P		Dance Studio	Norris,L.K.	
19042		PHYE-20C-03		Jazz Dance III	0	STU	F		11:45A-01:45P		Dance Studio	Norris,L.K.	
19043		PHYE-20D-01		Modern Dance I	0	STU	MW		03:30P-05:00P		Dance Studio	Silverglate,J.A.	
19044		PHYE-20D-02		Modern Dance II/III	0	STU	MW		02:00P-03:30P		Dance Studio	Cochlin,R.V.	
19046	Y	PHYE-20F-01		Indiv Study Dance	0	STU			**To Be Arranged**			Cochlin,R.V.	
<i>See Enrollment Conditions for instructions See Theater Arts for additional dance courses.</i>													
19047		PHYE-25A-01		Fencing:Epee Begin	0	STU	TTh		10:00A-11:00A		East Gym	Blackburn,C.A.	
19048		PHYE-25B-01		Fencing:Foil Begin	0	STU	MW		02:00P-03:00P		East Gym	Blackburn,C.A.	
19049		PHYE-25C-01		Fencing:Sabre Beg	0	STU	TTh		02:00P-03:00P		East Gym	Blackburn,C.A.	
19050		PHYE-28K-01		Beg/Int Soccer	0	STU	TTh		03:00P-04:30P		E Racquet Ct	Runeare,M.J.	
19051		PHYE-30G-01		Total Body Condition	0	STU	TTh		09:00A-10:00A		OPERS Multi Purpose	Radovan,A.D.	
19052		PHYE-30G-02		Total Body Condition	0	STU	MW		05:15P-06:30P		OPERS Multi Purpose	Hallock,L.M.	
23074		PHYE-30G-03		Pilates	0	STU	TTh		10:30A-11:45A		PE Activity Rm	Cochlin,R.V.	
23075		PHYE-30G-04		Pilates	0	STU	MW		10:30A-11:30A		OPERS Multi Purpose	Mc Ilwaine,P.S.	
19053		PHYE-30H-01		Tai Chi Chuan	0	STU	TTh		03:10P-04:40P		East Gym	Blackburn,C.A.	
19054		PHYE-30H-02		Tai Chi Chuan	0	STU	MW		03:10P-04:40P		OPERS Multi Purpose	Blackburn,C.A.	
19055		PHYE-30J-01		Begin Weight Train-Wmn0	0	STU	MW		09:00A-10:30A		Fitness/Wellness	Mori,C.A.	
19056		PHYE-30J-02		Begin Weight Training	0	STU	TTh		01:00P-02:30P		Fitness/Wellness	Mori,C.A.	
19057		PHYE-30J-03		Begin Weight Training	0	STU	MW		01:00P-02:30P		Fitness/Wellness	Andrews,R.	
19058		PHYE-30J-04		Begin Weight Training	0	STU	TTh		09:00A-10:30A		Fitness/Wellness	Lewis,D.R.	
19059		PHYE-30J-05		Inter Weight Training	0	STU	TTh		10:30A-12:00P		Fitness/Wellness	Hallock,L.M.	
21186		PHYE-30J-06		Athletic Conditioning	0	STU	TTh		10:30A-11:45A		OPERS Multi Purpose	Radovan,A.D.	
19060		PHYE-30J-07		Cardio Weight Training	0	STU	MW		10:30A-12:00P		Fitness/Wellness	Mori,C.A.	
19061		PHYE-30L-01		Beginning Yoga	0	STU	WF		10:00A-11:30A		PE Activity Rm	Cochlin,R.V.	
19062		PHYE-30L-03		Beginning Yoga	0	STU	MW		11:30A-01:00P		Martial Arts	Kimball,J.H.	
19063		PHYE-30L-04		Beginning Yoga	0	STU	TTh		10:15A-11:45A		Martial Arts	Kimball,J.H.	
19064		PHYE-30L-05		Cont Beginning Yoga	0	STU	MW		01:00P-02:30P		Martial Arts	Kimball,J.H.	
19065		PHYE-30L-06		Cont Beginning Yoga	0	STU	TTh		08:30A-10:00A		Martial Arts	Kimball,J.H.	
19066		PHYE-43A-01		Int/Adv Aikido	0	STU	MW		08:30A-10:00A		Martial Arts	Shibata,Y.	
<i>Sections 43A 01-02 are for students who have had some Aikido experience.</i>													
19067		PHYE-43A-02		Int/Adv Aikido	0	STU	TTh		01:00P-02:30P		Martial Arts	Shibata,Y.	
<i>Sections 43A 01-02 are for students who have had some Aikido experience.</i>													
19068		PHYE-43A-03		Beginning Aikido	0	STU	MW		10:00A-11:30A		Martial Arts	Shibata,Y.	
19069		PHYE-43A-04		Beginning Aikido	0	STU	TTh		02:45P-04:15P		Martial Arts	Shibata,Y.	

## Physics

19072		PHYS-5A-01		Intro Physics I	5	NQ	LEC	MWF	11:00A-12:10P		Thim Lecture 003	Smith,D.M.	R
<i>Concurrent enrollment in PHYS 5L is required</i>													
19073		PHYS-5D-01		Heat,Thermo&Kinetic	2		LEC	T	02:00P-03:45P		Thim Lecture 003	Primack,J.R.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
19074		PHYS-5L-01		Intro Phys I Lab	1	LAB	M		03:30P-06:30P		Thimann Lab 127	Staff	R
<i>Concurrent enrollment in PHYS 5A is required</i>													
19075		PHYS-5L-02		Intro Phys I Lab	1	LAB	M		07:00P-10:00P		Thimann Lab 127	Staff	R
19076		PHYS-5L-03		Intro Phys I Lab	1	LAB	T		12:00P-03:00P		Thimann Lab 127	Staff	R
19077		PHYS-5L-04		Intro Phys I Lab	1	LAB	T		03:30P-06:30P		Thimann Lab 127	Staff	R
19078		PHYS-5L-05		Intro Phys I Lab	1	LAB	T		07:00P-10:00P		Thimann Lab 127	Staff	R
21742		PHYS-5L-06		Intro Phys I Lab	1	LAB	W		03:30P-06:30P		Thimann Lab 127	Staff	R
21751		PHYS-5L-07		Intro Phys I Lab	1	LAB	W		07:00P-10:00P		Thimann Lab 127	Staff	R
22312		PHYS-5L-08		Intro Phys I Lab	1	LAB	Th		12:00P-03:00P		Thimann Lab 127	Staff	R
23424		PHYS-5L-09		Intro Phys I Lab	1	LAB	Th		07:00P-10:00P		Thimann Lab 127	Staff	R
19079		PHYS-6A-01		Intro Physics I	5	NQ	LEC	MWF	08:00A-09:10A		Thim Lecture 003	Gweon,G.	R
<i>Concurrent enrollment in PHYS 6L is required</i>													
19080		PHYS-6C-01		Intro Phys III	5	N	LEC	MWF	03:30P-04:40P		Thim Lecture 003	Kuttner,F.H.	R
<i>Concurrent enrollment in PHYS 6N is required</i>													
19081		PHYS-6L-01		Intro Phys I Lab	1	LAB	M		03:30P-06:30P		Thimann Lab 115	Staff	R
<i>Concurrent enrollment in PHYS 6A is required.</i>													
19082		PHYS-6L-02		Intro Phys I Lab	1	LAB	M		07:00P-10:00P		Thimann Lab 115	Staff	R
19083		PHYS-6L-03		Intro Phys I Lab	1	LAB	T		08:30A-11:30A		Thimann Lab 115	Staff	R
19084		PHYS-6L-04		Intro Phys I Lab	1	LAB	T		12:00P-03:00P		Thimann Lab 115	Staff	R
19085		PHYS-6L-05		Intro Phys I Lab	1	LAB	T		03:30P-06:30P		Thimann Lab 115	Staff	R
19086		PHYS-6L-06		Intro Phys I Lab	1	LAB	T		07:00P-10:00P		Thimann Lab 115	Staff	R
19087		PHYS-6L-07		Intro Phys I Lab	1	LAB	W		12:00P-03:00P		Thimann Lab 115	Staff	R
19088		PHYS-6L-08		Intro Phys I Lab	1	LAB	W		03:30P-06:30P		Thimann Lab 115	Staff	R
19089		PHYS-6L-09		Intro Phys I Lab	1	LAB	W		07:00P-10:00P		Thimann Lab 115	Staff	R
19090		PHYS-6L-10		Intro Phys I Lab	1	LAB	Th		08:30A-11:30A		Thimann Lab 115	Staff	R
22118		PHYS-6L-11		Intro Phys I Lab	1	LAB	Th		12:00P-03:00P		Thimann Lab 115	Staff	R
23377		PHYS-6L-12		Intro Phys I Lab	1	LAB	Th		07:00P-10:00P		Thimann Lab 115	Staff	R
19091		PHYS-6N-01		Intro Phys III Lab	1	LAB	M		07:00P-10:00P		Thimann Lab 121	Staff	R
<i>Concurrent enrollment in PHYS 6C is required</i>													
19092		PHYS-6N-02		Intro Phys III Lab	1	LAB	T		12:00P-03:00P		Thimann Lab 121	Staff	R
19093		PHYS-6N-03		Intro Phys III Lab	1	LAB	T		03:30P-06:30P		Thimann Lab 121	Staff	R
19094		PHYS-6N-04		Intro Phys III Lab	1	LAB	T		07:00P-10:00P		Thimann Lab 121	Staff	R
22057		PHYS-6N-05		Intro Phys III Lab	1	LAB	W		08:30A-11:30A		Thimann Lab 121	Staff	R
22496		PHYS-6N-06		Intro Phys III Lab	1	LAB	W		07:00P-10:00P		Thimann Lab 121	Staff	R
22568		PHYS-6N-07		Intro Phys III Lab	1	LAB	Th		12:00P-03:00P		Thimann Lab 121	Staff	R
23246		PHYS-6N-08		Intro Phys III Lab	1	LAB	Th		07:00P-10:00P		Thimann Lab 121	Staff	R
19099		PHYS-101A-01		Intro Modern Phys I	5		LEC	MWF	02:00P-03:10P		PhysSciences 110	Schumm,B.A.	R
19100		PHYS-101A-01A		Discussion			DIS	T	06:00P-07:30P		ISB 231	Staff	
19101		PHYS-105-01		Mechanics	5		LEC	MWF	12:30P-01:40P		PhysSciences 110	Johnson,R.P.	R
19102		PHYS-105-01A		Discussion			DIS	W	07:00P-08:30P		ISB 231	Staff	
19103		PHYS-116C-01		Math Method Physics	5		LEC	TTh	12:00P-01:45P		PhysSciences 110	Young,A.P.	R
19104		PHYS-116C-01A		Discussion			DIS	W	05:00P-06:30P		ISB 231	Staff	
22022		PHYS-134-01		Physics Adv Lab	5		LAB		**To Be Arranged**		Nat Sci 2 110	Carter,S.A.	R
<i>Enroll in lab and associated secondary lab</i>													
22023		PHYS-134-01A		Secondary Lab		LBS	TTh		08:00A-12:00P		Nat Sci 2 110	Staff	
22024		PHYS-134-01B		Secondary Lab		LBS	WF		08:00A-12:00P		Nat Sci 2 110	Staff	
21166		PHYS-135A-01		Astrophys Adv Lab	3		LAB	Th	02:00P-03:45P		Nat Sci 2 110	Dewey,R.J.	R
<i>Enroll in lab and associated secondary lab; also offered as ASTR 135A</i>													
21904		PHYS-135A-01A		Secondary Lab		LBS			**To Be Arranged**			Staff	
19105		PHYS-139B-01		Quantum Mechanics	5		LEC	TTh	02:00P-03:45P		ISB 231	Schlesinger,Z.	R
19106		PHYS-171-01		Genl Relativity	5		LEC	MW	10:00A-11:45A		ISB 235	Dine,M.	R
<i>Also offered as ASTR 171</i>													
19107		PHYS-195A-01		Sr Thesis Research	3		SEM	M	03:30P-05:00P		PhysSciences 110	Belanger,D.P.	
19180		PHYS-210-01		Classical Mechanics	5		LEC	MW	12:00P-01:45P		ISB 231	Nielsen,J.	R
19181		PHYS-212-01		Electromagnetism I	5		LEC	TTh	10:00A-11:45A		ISB 235	Narayan,O.	R
19182		PHYS-217-01		Quant Fld Theory I	5		LEC	MW	10:00A-11:45A		ISB 231	Aguirre,A.N.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
19183		PHYS-221A-01		Int Particle Phys I	5	LEC	TTh		02:00P-03:45P		ISB 126	Profumo,S.	R
19184		PHYS-231-01		Intro Condes Matter	5	LEC	MW		02:00P-03:45P		ISB 231	Staff	R
22494		PHYS-291A-01		Cosmology	2	SEM	M		12:30P-01:30P		ISB 102	Primack,J.R.	R
22495		PHYS-291C-01		Particle Physics	2	SEM	M		12:00P-02:00P		ISB 310	Dine,M.	R
												Haber,H.E.	
23372		PHYS-291D-01		Exp Collider Phys	2	SEM	W		09:30A-11:00A		ISB 310	Nielsen,J.	R
23373		PHYS-291E-01		Applied Physics	2	SEM	T		12:00P-02:00P		ISB 231	Alers,G.B.	R
												Carter,S.A.	
23374	Y	PHYS-291F-01		Particle Astrophys	2	SEM			**To Be Arranged**			Smith,D.M.	
23375		PHYS-291G-01		Cond Matter Physics	2	SEM	F		02:00P-03:30P		ISB 231	Young,A.P.	R
19185		PHYS-292-01		Seminar	0	SEM	Th		04:00P-05:45P		Thim Lecture 001	Belanger,D.P.	R

## Politics

24152		POLI-I-01		Democratic Politics	5	S	LEC	MWF	02:00P-03:10P		Humn Lecture 206	Wirls,D.J.	
24153		POLI-I-01A		Discussion			DIS	M	09:30A-10:40A		Kresge Acad 194	Staff	
24154		POLI-I-01B		Discussion			DIS	T	08:30A-09:40A		Kresge Acad 194	Staff	
24155		POLI-I-01C		Discussion			DIS	W	08:00A-09:10A		Steven Acad 151	Staff	
24156		POLI-I-01D		Discussion			DIS	W	12:30P-01:40P		PhysSciences 140	Staff	
24157		POLI-I-01E		Discussion			DIS	Th	04:00P-05:10P		PhysSciences 140	Staff	
24158		POLI-I-01F		Discussion			DIS	Th	06:00P-07:10P		Kresge Acad 194	Staff	
24159		POLI-I-01G		Discussion			DIS	Th	07:30P-08:40P		Kresge Acad 194	Staff	
24160		POLI-I-01H		Discussion			DIS	F	08:00A-09:10A		PhysSciences 140	Staff	
22806		POLI-17-01		US & World Economy	5	S	LEC	TTh	02:00P-03:45P		Steven Acad 175	McKendry,C.J.	
22807		POLI-17-01A		Discussion			DIS	M	12:30P-01:40P		PhysSciences 140	Staff	
22808		POLI-17-01B		Discussion			DIS	W	08:00A-09:10A		PhysSciences 140	Staff	
22809		POLI-17-01C		Discussion			DIS	Th	08:30A-09:40A		PhysSciences 136	Staff	
22810		POLI-17-01D		Discussion			DIS	F	02:00P-03:10P		PhysSciences 140	Staff	
24166		POLI-103-01		Feminist Intervntns	5		LEC	TTh	04:00P-05:45P		Crown Clrm 208	Seth,V.	R
24030		POLI-105A-01		Ancient Pol Thought	5		LEC	MWF	11:00A-12:10P		Thim Lecture 001	Mathiowetz,D.P.	R
<i>Enroll in lecture and associated discussion section; also offered as LGST 105A</i>													
24031		POLI-105A-01A		Discussion			DIS	M	02:00P-03:10P		Crown Clrm 208	Staff	
24032		POLI-105A-01B		Discussion			DIS	T	12:00P-01:10P		Crown Clrm 208	Staff	
24033		POLI-105A-01C		Discussion			DIS	Th	06:00P-07:10P		Crown Clrm 208	Staff	
24034		POLI-105A-01D		Discussion			DIS	Th	07:30P-08:40P		Crown Clrm 208	Staff	
24167		POLI-109-01		Orientalism	5		LEC	MWF	09:30A-10:40A		Kresge Clrm 323	Thomas,M.C.	R
23984		POLI-112-01		Women and the Law	5		LEC	TTh	10:00A-11:45A		Merrill Acad 102	Dent,G.	R
<i>Also offered as FMST 112; mandatory sections to be assigned during first week of class</i>													
24024		POLI-112-01A		Discussion			DIS		**To Be Arranged**			Staff	
24025		POLI-112-01B		Discussion			DIS		**To Be Arranged**			Staff	
24026		POLI-112-01C		Discussion			DIS		**To Be Arranged**			Staff	
24027		POLI-112-01D		Discussion			DIS		**To Be Arranged**			Staff	
24028		POLI-112-01E		Discussion			DIS		**To Be Arranged**			Staff	
24029		POLI-112-01F		Discussion			DIS		**To Be Arranged**			Staff	
24040		POLI-120B-01		Democ Amer Pol Dev	5		LEC	TTh	02:00P-03:45P		Oakes Acad 105	Brown,M.K.	R
<i>Enroll in lecture and associated discussion section; also offered as LGST 120B</i>													
24041		POLI-120B-01A		Discussion			DIS	M	09:30A-10:40A		Crown Clrm 208	Staff	
24042		POLI-120B-01B		Discussion			DIS	T	08:30A-09:40A		Crown Clrm 208	Staff	
24043		POLI-120B-01C		Discussion			DIS	W	08:00A-09:10A		Crown Clrm 208	Staff	
24044		POLI-120B-01D		Discussion			DIS	W	02:00P-03:10P		Crown Clrm 208	Staff	
24045		POLI-120B-01E		Discussion			DIS	Th	04:00P-05:10P		Oakes Acad 106	Staff	
24046		POLI-120B-01F		Discussion			DIS	F	09:30A-10:40A		Crown Clrm 208	Staff	
24168		POLI-140B-01		Compar Post-Communi	5		LEC	MWF	12:30P-01:40P		Merrill Acad 102	Urban,M.E.	
<i>Enroll in lecture and associated discussion section</i>													
24169		POLI-140B-01A		Discussion			DIS	T	04:00P-05:10P		Oakes Acad 106	Staff	
24170		POLI-140B-01B		Discussion			DIS	W	09:30A-10:40A		Crown Clrm 208	Staff	
24171		POLI-140B-01C		Discussion			DIS	Th	12:00P-01:10P		Crown Clrm 208	Staff	
24671		POLI-140B-01D		Discussion			DIS	F	08:00A-09:10A		Crown Clrm 208	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24173		POLI-149-01		DemocraticTransitns	5	LEC	TTh		02:00P-03:45P		Cowell Clrm 131	Staff	R
22335		POLI-160A-01		Internatl Politics	5	LEC	TTh		12:00P-01:45P		Thim Lecture 001	Lipschutz,R.D.	R
				<i>Enroll in lecture and associated discussion section</i>									
22336		POLI-160A-01A		Discussion		DIS	T		04:00P-05:10P		Eight Acad 252	Staff	
22337		POLI-160A-01B		Discussion		DIS	W		12:30P-01:40P		Eight Acad 242	Staff	
22338		POLI-160A-01C		Discussion		DIS	Th		08:30A-09:40A		Crown Clrm 208	Staff	
22339		POLI-160A-01D		Discussion		DIS	F		02:00P-03:10P		Crown Clrm 208	Staff	
24691		POLI-162-01		Political Integratn	5	LEC	TTh		10:00A-11:45A		N. Sci Annex 103	Marcum,J.A.	R
22816		POLI-176-01		Intl Political Econ	5	LEC	MWF		03:30P-04:40P		Cowell Clrm 131	Staff	R
24178		POLI-190R-01		CriticalDevelopment	5	SEM	TTh		10:00A-11:45A		Crown Clrm 201	Clear,A.M.	R
24672		POLI-190W-01		Living Aftermat Evil	5	SEM	TTh		04:00P-05:45P		Cowell Acad 216	Held,P.F.	R
24179		POLI-200B-01		Soc Forces/Pol Chng	5	SEM	M		06:00P-09:00P		Crown Fac Wing 235	Staff	R
24180		POLI-203-01		Making of Modern	5	SEM	T		06:00P-09:00P		Crown Fac Wing 235	Seth,V.	R
24181		POLI-232-01		U.S. Political Hist	5	SEM	W		06:00P-09:00P		Crown Fac Wing 235	Brown,M.K.	R
19450		POLI-291-01		TA Seminar	2	SEM			**To Be Arranged**		Crown Fac Wing 235	Staff	
<b>Portuguese</b>													
19539		PORT-1A-01		Elmentry Portuguese	5	LEC	MWF		12:30P-01:40P		J Baskin Engr 165	Seara,A.M.	
19540		PORT-60A-01		Beg-Intr Portuguese	5	LEC	MWF		02:00P-03:10P		J Baskin Engr 165	Seara,A.M.	R
19541		PORT-65B-01		Intermed Portuguese	5	H LEC	MWF		03:30P-04:40P		J Baskin Engr 165	Seara,A.M.	R
<b>Psychology</b>													
19578		PSYC-1-01		Intro Psychology	5	S LEC	TTh		10:00A-11:45A		Humn Lecture 206	Callanan,M. Crosby,F.J. Kawamoto,A.H.	
				<i>Enroll in lecture and associated discussion section</i>									
19579		PSYC-1-01A		Discussion		DIS	T		06:00P-07:10P		Soc Sci 1 153	Staff	
19580		PSYC-1-01B		Discussion		DIS	T		06:00P-07:10P		Soc Sci 1 149	Staff	
19581		PSYC-1-01C		Discussion		DIS	T		07:30P-08:40P		Soc Sci 1 153	Staff	
19582		PSYC-1-01D		Discussion		DIS	T		07:30P-08:40P		Soc Sci 1 149	Staff	
19583		PSYC-1-01E		Discussion		DIS	W		08:00A-09:10A		Soc Sci 1 153	Staff	
19584		PSYC-1-01F		Discussion		DIS	W		08:00A-09:10A		Soc Sci 1 149	Staff	
19585		PSYC-1-01G		Discussion		DIS	W		09:30A-10:40A		Soc Sci 1 153	Staff	
19586		PSYC-1-01H		Discussion		DIS	W		09:30A-10:40A		Soc Sci 2 141	Staff	
19587		PSYC-1-01I		Discussion		DIS	W		11:00A-12:10P		Soc Sci 1 153	Staff	
19588		PSYC-1-01J		Discussion		DIS	W		12:30P-01:40P		Soc Sci 1 153	Staff	
19589		PSYC-1-01K		Discussion		DIS	W		03:30P-04:40P		Soc Sci 1 153	Staff	
19590		PSYC-1-01L		Discussion		DIS	W		05:00P-06:10P		Soc Sci 1 153	Staff	
24586		PSYC-1-01M		Discussion		DIS	W		06:30P-07:40P		Soc Sci 1 153	Staff	
19592		PSYC-3-01		Research Methods	7	LEC	MWF		02:00P-03:10P		Oakes Acad 105	Crosby,F.J.	R
				<i>Enroll in lecture and associated discussion section</i>									
19593		PSYC-3-01A		Discussion		DIS	M		05:00P-06:45P		Soc Sci 2 104	Staff	
19594		PSYC-3-01B		Discussion		DIS	T		10:00A-11:45A		Soc Sci 2 104	Staff	
19595		PSYC-3-01C		Discussion		DIS	T		12:00P-01:45P		Soc Sci 2 104	Staff	
19596		PSYC-3-01D		Discussion		DIS	T		02:00P-03:45P		Soc Sci 2 104	Staff	
19597		PSYC-3-01E		Discussion		DIS	T		04:00P-05:45P		Soc Sci 2 104	Staff	
19598		PSYC-3-01F		Discussion		DIS	T		06:00P-07:45P		Soc Sci 2 104	Staff	
19599		PSYC-3-01G		Discussion		DIS	W		05:00P-06:45P		Soc Sci 2 104	Staff	
19600		PSYC-3-01H		Discussion		DIS	Th		08:00A-09:45A		Soc Sci 2 104	Staff	
19601		PSYC-3-01I		Discussion		DIS	Th		10:00A-11:45A		Soc Sci 2 104	Staff	
19602		PSYC-3-01J		Discussion		DIS	Th		12:00P-01:45P		Soc Sci 2 104	Staff	
23463		PSYC-3-01K		Discussion		DIS	Th		02:00P-03:45P		Soc Sci 2 104	Staff	
24182		PSYC-3-01L		Discussion		DIS	Th		06:00P-07:45P		Soc Sci 2 104	Staff	
19603		PSYC-10-01		Intro Develop Psych	5	LEC	MWF		02:00P-03:10P		Steven Acad 150	Azmitia,M.	R
24183		PSYC-10-01A		Discussion		DIS	M		08:00A-09:10A		Soc Sci 2 179	Staff	
24184		PSYC-10-01B		Discussion		DIS	W		09:30A-10:40a		Kresge Clrm 327	Staff	
24185		PSYC-10-01C		Discussion		DIS	W		11:00A-12:10p		Kresge Clrm 327	Staff	
24186		PSYC-10-01D		Discussion		DIS	Th		07:00P-08:10P		Kresge Clrm 327	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
24187		PSYC-20-01		Intr Cognitive Psyc	5	LEC	TTh		10:00A-11:45A		Kresge Clrm 321	Seymour,T.L.	R
24188		PSYC-20-01A		Discussion		DIS	M		05:00P-06:10P		Crown Clrm 208	Staff	
24189		PSYC-20-01B		Discussion		DIS	M		06:30P-07:40P		Crown Clrm 208	Staff	
24190		PSYC-20-01C		Discussion		DIS	Th		06:00P-07:10p		Soc Sci 2 179	Staff	
24191		PSYC-20-01D		Discussion		DIS	Th		07:30P-08:40P		Soc Sci 2 179	Staff	
19604		PSYC-40-01		Intro Social Psych	5	LEC	TTh		08:00A-09:45A		Thim Lecture 003	Pratkanis,A.R.	R
19605		PSYC-80A-01		Psych and Religion	5	3	LEC	TTh	12:00P-01:45P		ClassroomUnit 002	Quinn,R.H.	
19606		PSYC-80A-01A		Discussion		DIS	M		02:00P-03:10P		Cowell Clrm 131	Staff	
19607		PSYC-80A-01B		Discussion		DIS	T		04:00P-05:10P		Porter Acad 148	Staff	
19608		PSYC-80A-01C		Discussion		DIS	T		06:00P-07:10P		Porter Acad 148	Staff	
21112		PSYC-80A-01D		Discussion		DIS	T		07:30P-08:40P		Porter Acad 148	Staff	
19609		PSYC-80A-01E		Discussion		DIS	W		09:30A-10:40A		Porter Acad 148	Staff	
21113		PSYC-80A-01F		Discussion		DIS	W		11:00A-12:10P		Porter Acad 148	Staff	
19610		PSYC-80A-01G		Discussion		DIS	Th		04:00P-05:10P		Cowell Clrm 131	Staff	
19611		PSYC-80A-01H		Discussion		DIS	Th		06:00P-07:10P		Cowell Clrm 131	Staff	
19612		PSYC-80A-01I		Discussion		DIS	Th		07:30P-08:40P		Cowell Clrm 131	Staff	
19613		PSYC-80A-01J		Discussion		DIS	F		09:30A-10:40A		Porter Acad 148	Staff	
22830		PSYC-80A-01K		Discussion		DIS	F		11:00A-12:10P		Porter Acad 148	Staff	
22831		PSYC-80A-01L		Discussion		DIS	F		12:30P-01:40P		Porter Acad 148	Staff	
22833		PSYC-102-01		Adolescent Develop	5	LEC	TTh		12:00P-01:45P		Kresge Clrm 321	Cooper,C.R.	R
24195		PSYC-102-01A		Discussion		DIS	M		12:30P-01:40P		Porter Acad 144	Staff	
24196		PSYC-102-01B		Discussion		DIS	M		07:00P-08:10P		Porter Acad 144	Staff	
24197		PSYC-102-01C		Discussion		DIS	Th		04:00P-05:10P		Kresge Clrm 327	Staff	
24198		PSYC-102-01D		Discussion		DIS	F		08:00A-09:10a		Oakes Acad 106	Staff	
24192		PSYC-119B-01		Cultural Psychology	5	E	SEM	MW	05:00P-06:45P		Soc Sci 1 161	Gjerde,P.F.	R
24199		PSYC-119F-01		Language Developmnt	5		SEM	TTh	02:00P-03:45P		Soc Sci 1 161	Akhtar,N.N.	R
24685		PSYC-119H-01		Real World Problems	5	W	SEM	T	04:00P-07:00P		Soc Sci 2 265	Callanan,M.	R
24194		PSYC-119I-01		Narrative Developmt	5		SEM	MW	05:00P-06:45P		Steven Acad 152	Thorne,A.	R
24657		PSYC-119L-01		Biol/Found/LifeSpan	5		SEM	MWF	11:00A-12:10P		Kresge Clrm 323	Azmitia,M.	R
22404		PSYC-126-01		Aging and Human Brain	5		LEC	TTh	06:00P-07:45P		Soc Sci 2 075	Staff	R
22405		PSYC-126-01A		Discussion		DIS	M		12:30P-01:40P		Kresge Clrm 327	Staff	
22406		PSYC-126-01B		Discussion		DIS	Th		10:00A-11:10A		Kresge Clrm 327	Staff	
24200		PSYC-130-01		Deceptn/Brain/Behav	5		LEC	TTh	02:00P-03:45P		Soc Sci 2 071	Seymour,T.L.	R
24201		PSYC-130-01A		Discussion		DIS	Th		08:30A-09:40A		Kresge Clrm 327	Staff	
24202		PSYC-130-01B		Discussion		DIS	F		08:00A-09:10A		Kresge Clrm 327	Staff	
23829		PSYC-131-01		HCI	5		LEC	TTh	12:00P-01:45P		Kresge Clrm 327	Kurniawan,S.H.	R
<i>Also offered as CMPE 131; taught in conjunction with CMPE 231 and PSYC 223</i>													
22340		PSYC-135-01		Feelings & Emotions	5		LEC	TTh	08:00A-09:45A		Merrill Acad 102	Gibbs,R.W.	R
22341		PSYC-135-01A		Discussion		DIS	M		09:30A-10:40A		Kresge Clrm 327	Staff	
22342		PSYC-135-01B		Discussion		DIS	W		08:00A-09:10A		Kresge Clrm 327	Staff	
22343		PSYC-135-01C		Discussion		DIS	W		12:30P-01:40P		Kresge Clrm 327	Staff	
22344		PSYC-135-01D		Discussion		DIS	F		03:30P-04:40P		Porter Acad 148	Staff	
24203		PSYC-139G-01		Conversations	5		SEM	MWF	09:30A-10:40A		N. Sci Annex 102	Fox Tree,J.E.	R
24204		PSYC-140C-01		Health Psychology	5		LEC	TTh	06:00P-07:45P		Soc Sci 2 071	Kaupp,J.W.	R
24205		PSYC-140C-01A		Discussion		DIS	W		08:00A-09:10A		Soc Sci 2 179	Staff	
24206		PSYC-140C-01B		Discussion		DIS	Th		02:00P-03:10P		Earth&Marine B210	Staff	
24686		PSYC-140G-01		Women's Lives	5		LEC	TTh	08:00A-09:45A		Steven Acad 150	Staff	R
24687		PSYC-140G-01A		Discussion		DIS	M		05:00P-06:10P		Soc Sci 2 179	Staff	
24688		PSYC-140G-01B		Discussion		DIS	M		06:30P-07:40P		Soc Sci 2 179	Staff	
24689		PSYC-140G-01C		Discussion		DIS	W		12:30P-01:40P		Soc Sci 2 179	Staff	
24690		PSYC-140G-01D		Discussion		DIS	W		07:00P-08:10P		Soc Sci 2 179	Staff	
22837		PSYC-140Q-01		Soc Psy/Sex & Gendr	5		LEC	MW	05:00P-06:45P		Soc Sci 2 071	Leaper,C.	R
22838		PSYC-140Q-01A		Discussion		DIS	M		07:00P-08:15P		Soc Sci 1 161	Staff	
22839		PSYC-140Q-01B		Discussion		DIS	W		07:00P-08:15P		Soc Sci 1 161	Staff	
23886		PSYC-140T-01		Psychology / Trauma	5		LEC	M	07:00P-10:00P		J Baskin Engr 152	Zurbriggen,E.L.	R
23887		PSYC-140T-01A		Discussion		DIS	W		08:00A-09:10A		PhysSciences 130	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23888		PSYC-140T-01B		Discussion		DIS	W		09:30A-10:40A		PhysSciences 130	Staff	
23889		PSYC-140T-01C		Discussion		DIS	Th		08:30A-09:40A		Soc Sci 2 179	Staff	
23890		PSYC-140T-01D		Discussion		DIS	F		12:30P-01:40P		Kresge Acad 194	Staff	
24207		PSYC-143-01		Intergroup Relation	5	E	LEC	MW	05:00P-06:45P		Steven Acad 150	Hammack,P.L.	R
24208		PSYC-143-01A		Discussion		DIS	M		12:30P-01:40P		Soc Sci 2 179	Staff	
24209		PSYC-143-01B		Discussion		DIS	T		07:30P-08:40P		Kresge Clrm 325	Staff	
24210		PSYC-143-01C		Discussion		DIS	W		08:00A-09:10A		Kresge Acad 194	Staff	
24211		PSYC-143-01D		Discussion		DIS	W		12:30P-01:40P		PhysSciences 130	Staff	
24684		PSYC-159E-01		Peace Psychology	5		SEM	TTh	08:00A-09:45A		Merrill Acad 130	Staff	R
24212		PSYC-159H-01		Comm-Based Interven	5		SEM	TTh	12:00P-01:45P		Soc Sci 1 161	Langhout,R.D.	R
22847		PSYC-159I-01		Soc Psyc Flim-Flam	5		SEM	TTh	10:00A-11:45A		N. Sci Annex 102	Pratkanis,A.R.	R
24558		PSYC-159T-01		Small Groups	5		SEM	TTh	02:00P-03:45P		Cowell Acad 113	Crosby,F.J.	R
24213		PSYC-162-01		Psych of Creativity	5		LEC	TTh	02:00P-03:45P		Steven Acad 150	Harrington,D.M.	R
24214		PSYC-162-01A		Discussion		DIS	M		05:00P-06:10P		Porter Acad 148	Staff	
24215		PSYC-162-01B		Discussion		DIS	M		06:30P-07:40P		Porter Acad 148	Staff	
24216		PSYC-162-01C		Discussion		DIS	T		06:00P-07:10P		Kresge Acad 194	Staff	
24217		PSYC-162-01D		Discussion		DIS	T		07:30P-08:40P		Kresge Acad 194	Staff	
19614		PSYC-169-01		Commun Mental Health	5		LEC	TTh	04:00P-05:45P		Kresge Clrm 321	Tonay,V.K.	R
24218		PSYC-169-01A		Discussion		DIS	M		05:00P-06:10P		Kresge Acad 194	Staff	
24219		PSYC-169-01B		Discussion		DIS	M		06:30P-07:40P		Kresge Acad 194	Staff	
24220		PSYC-169-01C		Discussion		DIS	Th		10:00A-11:10A		Porter Acad 148	Staff	
24221		PSYC-169-01D		Discussion		DIS	F		09:30A-10:40A		Kresge Acad 194	Staff	
19615		PSYC-171-01		Child Psychopathol	5		LEC	TTh	12:00P-01:45P		Porter Acad 148	Saposnek,D.T.	R
19616		PSYC-171-01A		Discussion		DIS	M		11:00A-12:10P		Porter Acad 148	Staff	
19617		PSYC-171-01B		Discussion		DIS	Th		08:30A-09:40A		Kresge Acad 194	Staff	
19618	Y	PSYC-191A-01		Intro to Psychology	5		SEM	F	09:00A-12:00P		Soc Sci 2 104	Callanan,M.	
				<i>See Enrollment Conditions for instructions.</i>									
19662	Y	PSYC-194A-01		Adv Devel Research	5		LAB		**To Be Arranged**			Leaper,C.	
				<i>See Enrollment Conditions for instructions.</i>									
19663	Y	PSYC-194B-01		Adv Cognitive Res	5		LAB		**To Be Arranged**			Wilson,M.L.	
				<i>See Enrollment Conditions for instructions.</i>									
19664	Y	PSYC-194C-01		Adv Social Research	5		LAB		**To Be Arranged**			Bullock,H.E.	
				<i>See Enrollment Conditions for instructions.</i>									
19997		PSYC-204-01		Quant Data Analysis	5		SEM	TTh	10:00A-11:45A		Porter Acad 250	Staff	R
22062		PSYC-211A-01		SocialJustice/Indiv	5		SEM	M	12:30P-03:30P		Soc Sci 2 137	Hurtado,A.	R
23830		PSYC-223-01		HCI	5		LEC	TTh	12:00P-01:45P		Kresge Clrm 327	Kurniawan,S.H.	R
				<i>Also offered as CMPE 231; taught in conjunction with PSYC 223 and CMPE 131</i>									
19998		PSYC-224A-01		Prosem: Cogni Psy I	5		SEM	Th	04:00P-07:00P		Soc Sci 2 121	Kawamoto,A.H.	R
				Massaro,D.W.									
22851		PSYC-225A-01		Intro Dev Reserch I	3		SEM	T	04:00P-07:00P		Soc Sci 2 223	Gjerde,P.F.	R
24222		PSYC-227-01		Psych Of Language	5		SEM	Th	10:00A-01:00P		Crown Clrm 104	Gibbs,R.W.	R
19999		PSYC-230-01		Cogni Psych Seminar	5		SEM	W	03:30P-05:00P		Soc Sci 2 121	Massaro,D.W.	R
20000		PSYC-231-01		Social Psych Sem	5		SEM	M	10:30A-12:00P		Soc Sci 2 121	Hurtado,A.	R
20001		PSYC-242-01		Dev Psyc Seminar	5		SEM	M	03:30P-05:00P		Soc Sci 2 121	Wang,S.	R
22852		PSYC-244A-01		Prosem I:Lang Devel	5		SEM	MW	12:00P-01:45P		Soc Sci 2 121	Akhtar,N.N.	R
24223		PSYC-246-01		Cultr Diver Hum Dev	5		SEM	T	10:00A-01:00P		Soc Sci 2 223	Rogoff,B.	R
24224		PSYC-248-01		Survey Methods	5		SEM	M	05:00P-08:00P		Soc Sci 2 137	Hurtado,A.	R
24225		PSYC-290B-01		Adv Devel Research	2		SEM	M	09:00A-11:00A		Soc Sci 2 223	Rogoff,B.	R
24226		PSYC-290C-01		Professional Devel	3		SEM	T	03:00P-05:00P		Soc Sci 2 237	Thorne,A.	R
<b>Russian</b>													
20221		RUSS-1-01		Instr Russian Lang	5		LEC	MWF	12:30P-01:40P		Oakes Acad 102	Nickell,W.S.	
20222		RUSS-4-01		Intermed Russian	5	H	LEC	MWF	02:00P-03:10P		Oakes Acad 102	Nickell,W.S.	R
<b>Science Communication</b>													
20245		SCIC-201A-01		Reporting Sci News	5		SEM	TTh	08:00A-09:45A		KresgeAnnex A 118	Chui,G.G.	R
20246		SCIC-202-01		Writ & Edit Wrkshop	5		SEM	TTh	10:00A-11:45A		KresgeAnnex A 118	Desjardins,M.A.	R
				Irion,R.W.									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
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### Social Documentation

22009		SOCD-200-01		Approach Social Docmt	5	SEM	W		02:00P-05:00P		Oakes Acad 109	Rich,B.R.	R
22010		SOCD-202-01		Practice/Social Doc	5	SEM			**To Be Arranged**		Oakes Acad 109	Staff	R
22589		SOCD-291-01		Soc Doc Media Lab	2	LAB			**To Be Arranged**			Rich,B.R.	R
22590		SOCD-291-02		Soc Doc Media Lab	2	LAB			**To Be Arranged**			Staff	R
22871		SOCD-291-03		Soc Doc Media Lab	2	LAB			**To Be Arranged**			Rich,B.R.	R
22293		SOCD-294A-01		Prod/Anlysis/Editng	5	SEM	M		02:00P-05:00P		Oakes Acad 109	Rich,B.R.	R
		SOCD-295-XXX		Project Completion	5	IND			**To Be Arranged**			Staff	

See sponsoring agency for class number

SOCD-297-XXX Independent Study 5 IND \*\*To Be Arranged\*\* Staff

See sponsoring agency for class number

### Social Sciences

21965	Y	SOCS-194A-01		UCDC Intern Seminar	5	FLD			12:00A-12:00A			Gil,R.	
				<i>This course is scheduled in Washington, D.C.</i>									
21966	Y	SOCS-194B-01		UCDC Intern Seminar	7	FLD			12:00A-12:00A			Gil,R.	
				<i>This course is scheduled in Washington, D.C.</i>									

### Sociology

20263		SOCY-1-01		Intro Sociology	5	S	LEC	MW	05:00P-06:45P		Media Theater M110	Reinarman,C.	
				<i>Enroll in lecture and associated discussion section.</i>									
20264		SOCY-1-01A		Discussion			DIS	M	08:00A-09:10A		Eight Acad 242	Staff	
20265		SOCY-1-01B		Discussion			DIS	M	12:30P-01:40P		Eight Acad 242	Staff	
20266		SOCY-1-01C		Discussion			DIS	T	08:30A-09:40A		Oakes Acad 102	Staff	
20267		SOCY-1-01D		Discussion			DIS	T	10:00A-11:10A		Porter Acad 148	Staff	
21827		SOCY-1-01E		Discussion			DIS	W	02:00P-03:10P		Eight Acad 252	Staff	
21828		SOCY-1-01F		Discussion			DIS	W	06:30P-07:40P		Eight Acad 252	Staff	
21829		SOCY-1-01G		Discussion			DIS	Th	08:30A-09:40A		Oakes Acad 102	Staff	
21830		SOCY-1-01H		Discussion			DIS	Th	02:00P-03:10P		Porter Acad 148	Staff	
21831		SOCY-1-01I		Discussion			DIS	Th	06:00P-07:10P		Eight Acad 242	Staff	
21832		SOCY-1-01J		Discussion			DIS	Th	07:30P-08:40P		Eight Acad 242	Staff	
23534		SOCY-1-01K		Discussion			DIS	F	02:00P-03:10P		Eight Acad 252	Staff	
23535		SOCY-1-01L		Discussion			DIS	F	03:30P-04:40P		Eight Acad 252	Staff	
20268		SOCY-15-01		World Society	5	SE	LEC	TTh	12:00P-01:45P		Earth&Marine B206	Lubeck,P.M.	
				<i>Enroll in lecture and associated discussion section</i>									
20269		SOCY-15-01A		Discussion			DIS	M	05:00P-06:10P		Eight Acad 252	Staff	
20270		SOCY-15-01B		Discussion			DIS	M	06:30P-07:40P		Eight Acad 252	Staff	
20271		SOCY-15-01C		Discussion			DIS	T	08:30A-09:40A		Porter Acad 148	Staff	
20272		SOCY-15-01D		Discussion			DIS	W	08:00A-09:10A		Eight Acad 252	Staff	
20273		SOCY-15-01E		Discussion			DIS	W	02:00P-03:10P		Porter Acad 148	Staff	
20274		SOCY-15-01F		Discussion			DIS	Th	06:00P-07:10P		Eight Acad 252	Staff	
21116		SOCY-15-01G		Discussion			DIS	Th	07:30P-08:40P		Eight Acad 252	Staff	
21117		SOCY-15-01H		Discussion			DIS	F	12:30P-01:40P		Eight Acad 242	Staff	
20275		SOCY-30A-01		Global Info Interns	3		LAB	T	06:00P-07:45P		Soc Sci 2 179	Lubeck,P.M.	
								Th	06:00P-07:45P		Soc Sci 1 135	Staff	
20282		SOCY-105A-01		Classical Soc Theor	5		LEC	TTh	08:00A-09:45A		J Bask Aud 101	Traugott,M.	R
				<i>Enroll in lecture and associated discussion section</i>									
20283		SOCY-105A-01A		Discussion			DIS	M	03:30P-04:40P		Eight Acad 250	Staff	
20284		SOCY-105A-01B		Discussion			DIS	M	07:00P-08:10P		Eight Acad 250	Staff	
20285		SOCY-105A-01C		Discussion			DIS	W	08:00A-09:10A		Porter Acad 148	Staff	
22613		SOCY-105A-01D		Discussion			DIS	Th	06:00P-07:10P		Porter Acad 148	Staff	
20286		SOCY-105A-01E		Discussion			DIS	Th	07:30P-08:40P		Porter Acad 148	Staff	
20287		SOCY-105A-01F		Discussion			DIS	F	12:30P-01:40P		Oakes Acad 106	Staff	
22364		SOCY-111-01		Family & Society	5		LEC	TTh	12:00P-01:45P		Porter Acad 144	Martyna,W.	
22367		SOCY-111-01A		Discussion			DIS	M	11:00A-12:10P		Porter Acad 148	Staff	
22368		SOCY-111-01B		Discussion			DIS	Th	10:00A-11:10A		Porter Acad 148	Staff	
24234		SOCY-119-01		Soc Of Knowledge	5		SEM	MW	05:00P-06:45P		Porter Acad 144	Childs,J.B.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23077		SOCY-1281-01		Race & Crimnl Justi	5	LEC	TTh		08:00A-09:45A		Oakes Acad 105	Fukurai,H.	R
				<i>Enroll in lecture and associated discussion section; also offered as LGST 1281</i>									
23078		SOCY-1281-01A		Discussion		DIS	M		09:30A-10:40A		Porter Acad 148	Staff	
23079		SOCY-1281-01B		Discussion		DIS	M		12:30P-01:40P		Porter Acad 148	Staff	
23080		SOCY-1281-01C		Discussion		DIS	W		02:00P-03:10P		Porter Acad 144	Staff	
23081		SOCY-1281-01D		Discussion		DIS	F		11:00A-12:10P		Porter Acad 144	Staff	
24235		SOCY-129-01		Popular Culture	5	LEC	TTh		06:00P-07:45P		Kresge Clrm 321	Bettie,J.	R
				<i>Enroll in lecture and associated discussion section</i>									
24236		SOCY-129-01A		Discussion		DIS	M		12:30P-01:40P		PhysSciences 130	Staff	
24237		SOCY-129-01B		Discussion		DIS	M		03:30P-04:40P		Oakes Acad 102	Staff	
24238		SOCY-129-01C		Discussion		DIS	W		06:30P-07:40P		Kresge Clrm 325	Staff	
24239		SOCY-129-01D		Discussion		DIS	F		09:30A-10:40A		PhysSciences 130	Staff	
24613		SOCY-149-01		Sex and Gender	5	LEC	MW		05:00P-06:45P		PhysSciences 130	Staff	
24614		SOCY-152-01		Body and Society	5	LEC	TTh		06:00P-07:45P		Porter Acad 144	Staff	R
24240		SOCY-155-01		Poli Consciousness	5	LEC	TTh		04:00P-05:45P		J Baskin Engr 165	Domhoff,G.W.	
24241		SOCY-167-01		Devel & Underdevelp	5	LEC	TTh		02:00P-03:45P		Eight Acad 240	Crow,B.D.	
				<i>Enroll in lecture and associated discussion section</i>									
24242		SOCY-167-01A		Discussion		DIS	M		02:00P-03:10P		Porter Acad 148	Staff	
24243		SOCY-167-01B		Discussion		DIS	Th		08:30A-09:40A		Porter Acad 148	Staff	
24248		SOCY-173-01		Water	5	LEC	TTh		10:00A-11:45A		Oakes Acad 106	Crow,B.D.	R
24249		SOCY-177A-01		Latinos/AmerGlobCty	5	LEC	MW		07:00P-08:45P		Oakes Acad 106	Sandoval,G.	R
24250		SOCY-201-01		Make Classic Theory	5	SEM	W		09:00A-12:00P		Eight Acad 301	Du Puis,E.M.	R
24251		SOCY-203-01		Sociol Methods	5	LEC	Th		03:00P-06:00P		Eight Acad 301	West,C.	R
24252		SOCY-205-01		Field Research Meth	5	SEM	W		03:00P-06:00P		Eight Acad 301	Millman,M.	R
24253		SOCY-229-01		Wrk Lbr Mkt New Ecn	5	SEM	T		02:00P-05:00P		Eight Acad 301	Mc Kay,S.	R
24254		SOCY-293-01		Job Market	5	SEM	T		06:00P-09:00P		Eight Acad 301	West,C.	R
<b>Spanish</b>													
20585		SPAN-1-01		Instr Spanish Lang	5	LEC	MWF		08:00A-09:10A		Soc Sci 2 167	Morris,M.D.	R
20586		SPAN-1-02		Instr Spanish Lang	5	LEC	MWF		09:30A-10:40A		Soc Sci 2 167	Morris,M.D.	R
22239		SPAN-1-03		Instr Spanish Lang	5	LEC	MWF		02:00P-03:10P		Soc Sci 2 165	Staff	R
23880		SPAN-1-04		Instr Spanish Lang	5	LEC	MWF		03:30P-04:40P		Soc Sci 2 165	Staff	R
22019		SPAN-1T-01		Instruc Span-Topics	5	LEC	MWF		12:30P-01:40P		Crown Clrm 203	Gonzalez Pagani,M.	R
22020	Y	SPAN-1U-01		Span Lang Instr Lab	2	LAB			**To Be Arranged**			Gonzalez Pagani,M.	
20587		SPAN-2-01		Instr Spanish Lang	5	LEC	MWF		11:00A-12:10P		Hum & Soc Sci 350	Ramirez,F.A.	R
20588		SPAN-2-02		Instr Spanish Lang	5	LEC	MWF		12:30P-01:40P		Hum & Soc Sci 350	Ramirez,F.A.	R
20589		SPAN-2-03		Instr Spanish Lang	5	LEC	MWF		03:30P-04:40P		Crown Clrm 203	Calierno,C.	R
20590		SPAN-2-04		Instr Spanish Lang	5	LEC	MWF		11:00A-12:10P		Steven Acad 151	Perez,A.A.	R
20591		SPAN-2-05		Instr Spanish Lang	5	LEC	MWF		03:30P-04:40P		Merrill Acad 130	Navarro,M.A.	R
20592		SPAN-3-01		Instr Spanish Lang	5	LEC	MWF		11:00A-12:10P		Hum & Soc Sci 250	Barcelo,B.	R
20593		SPAN-3-02		Instr Spanish Lang	5	LEC	MWF		03:30P-04:40P		Hum & Soc Sci 250	Barcelo,B.	R
20594		SPAN-3-03		Instr Spanish Lang	5	LEC	MWF		02:00P-03:10P		Soc Sci 2 167	Perez,A.A.	R
20595		SPAN-3-04		Instr Spanish Lang	5	LEC	MWF		03:30P-04:40P		Soc Sci 2 167	Perez,A.A.	R
20596		SPAN-4-01		Intermed Spanish	5	H SEM	MWF		09:30A-10:40A		Soc Sci 2 159	Feliu,Y.E.	R
20597		SPAN-4-02		Intermed Spanish	5	H SEM	MWF		03:30P-04:40P		Steven Acad 151	Feliu,Y.E.	R
20598		SPAN-4-03		Intermed Spanish	5	H SEM	MWF		11:00A-12:10P		Soc Sci 2 167	Morris,M.D.	R
20599		SPAN-4-04		Intermed Spanish	5	H SEM	MWF		03:30P-04:40P		Merrill Acad 132	Staff	R
20600		SPAN-5-01		Intermed Spanish	5	H LEC	MWF		09:30A-10:40A		Soc Sci 2 165	Romero,A.	R
20601		SPAN-5-02		Intermed Spanish	5	H LEC	MWF		11:00A-12:10P		Soc Sci 2 165	Romero,A.	R
21795		SPAN-5M-01		Medical Spanish	5	H LEC	MWF		12:30P-01:40P		Hum & Soc Sci 250	Barcelo,B.	R
20602		SPAN-6-01		Intermed/Adv Span	5	H LEC	MWF		02:00P-03:10P		Hum & Soc Sci 350	Romero,A.	R
20603		SPAN-6-02		Intermed/Adv Span	5	H LEC	MWF		03:30P-04:40P		Hum & Soc Sci 350	Ramirez,F.A.	R
24532		SPAN-156A-01		LatinAmer Cinema	5	LEC	MWF		02:00P-03:10P		Crown Clrm 203	Calierno,C.	R
<b>Spanish for Spanish Speakers</b>													
20635		SPSS-61-01		Spanish Speakers	5	H LEC	MWF		11:00A-12:10P		Soc Sci 2 159	Feliu,Y.E.	
20636		SPSS-61-02		Spanish Speakers	5	H LEC	MWF		12:30P-01:40P		Crown Clrm 202	Navarro,M.A.	
22021		SPSS-61-03		Spanish Speakers	5	H LEC	MWF		02:00P-03:10P		Merrill Acad 130	Navarro,M.A.	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
<b>Theater Arts</b>													
20674		THEA-10-01		Intro to Design	5	A	LEC	TTh	02:00P-03:45P		TA 2nd Stage	Tollefson,A.B.	
21195		THEA-12-01		Stage Management	5	A	LEC	MW	09:00A-10:45A		TA Studio C102	Staff	
20675		THEA-20-01		Intr Studies Acting	5	HA	STU	TTh	12:00P-01:45P		TA Exp Theater L106	Staff	
<i>Enroll in studio and associated secondary studio</i>													
24698		THEA-20-01A		Secondary Studio			STS	W	01:30P-02:40P		TA Studio C100	Staff	
24699		THEA-20-01B		Secondary Studio			STS	W	03:00P-04:10P		TA Studio C100	Staff	
24700		THEA-20-01C		Secondary Studio			STS	F	09:00A-10:10A		TA Studio C100	Staff	
24701		THEA-20-01D		Secondary Studio			STS	F	10:30A-11:40A		TA Studio C100	Staff	
24255	Y	THEA-21-01		Acting Studio I	5	A	STU	MW	09:00A-11:00A		TA Studio C100	Gallagher,P.M.	
22894	Y	THEA-23-01		Voice for the Actor	5	A	STU	TTh	02:00P-03:45P		TA Drama B100	Staff	
20680		THEA-30-01		Intr Modern Dance	5	HA	STU	MWF	11:30A-01:00P		TA Mainstage A105	Beal,T.	
24256	Y	THEA-31C-01		Dance Studio I	5	A	STU	MWF	01:30P-03:00P		TA Mainstage A105	Beal,T.	
24257		THEA-40-01		Intro To Directing	5	HA	LEC	TTh	10:00A-11:45A		TA Lecture E100	Brandt,K.L.	
20681		THEA-50-01		Fundamen Production	2	A	STU		**To Be Arranged**			Cuthbert,D.L.	
<i>Enroll in lecture and associated secondary studio; first class meeting Wednesday, 10/1, 9am, on TA Main Stage, remainder TBA</i>													
20682		THEA-50-01A		Secondary Studio			STS		**To Be Arranged**			Staff	
20683		THEA-50-01B		Secondary Studio			STS		**To Be Arranged**			Staff	
21191		THEA-50-01C		Secondary Studio			STS		**To Be Arranged**			Staff	
21192		THEA-50-01D		Secondary Studio			STS		**To Be Arranged**			Staff	
21193		THEA-50-01E		Secondary Studio			STS		**To Be Arranged**			Staff	
21194		THEA-50-01F		Secondary Studio			STS		**To Be Arranged**			Staff	
21963	Y	THEA-55A-01		Barnstorm	5		STU	MTWTh	07:00P-10:00P		Barn Theater 021	Cuthbert,D.L.	
<i>See Enrollment Conditions for instructions</i>													
								F	03:30P-06:30P		Barn Theater 021		
21964	Y	THEA-55B-01		Barnstorm Lab	2		STU	MTWTh	07:00P-10:00P		Barn Theater 021	Cuthbert,D.L.	
<i>See Enrollment Conditions for instructions</i>													
								F	03:30P-06:30P		Barn Theater 021		
23355		THEA-61-01		Issues and Methods	5	HA	LEC	TTh	12:00P-01:45P		TA 2nd Stage	Edmunds,K.	
<i>Enroll in lecture and associated discussion section</i>													
23356		THEA-61-01A		Discussion			DIS	Th	02:30P-03:40P		TA Drama B201	Staff	
23357		THEA-61-01B		Discussion			DIS	Th	04:00P-05:10P		TA Drama B201	Staff	
24646		THEA-61-01C		Discussion			DIS	F	11:00A-12:10P		TA Offices J102	Staff	
24647		THEA-61-01D		Discussion			DIS	F	12:30P-01:40P		TA Offices J102	Staff	
24258		THEA-80L-01		Muppet Magic	5	4A	LEC	TTh	10:00A-11:45A		Media Theater M110	Foley,M.K.	
24259		THEA-80L-01A		Discussion			DIS	W	09:00A-10:10A		TA Drama B201	Staff	
24260		THEA-80L-01B		Discussion			DIS	W	10:30A-11:40A		TA Drama B201	Staff	
24261		THEA-80L-01C		Discussion			DIS	W	12:00P-01:10P		TA Drama B201	Staff	
24262		THEA-80L-01D		Discussion			DIS	W	01:30P-02:40P		TA Drama B201	Staff	
24263		THEA-80L-01E		Discussion			DIS	T	02:30P-03:40P		TA Drama B201	Staff	
24264		THEA-80L-01F		Discussion			DIS	T	04:00P-05:10P		TA Drama B201	Staff	
24265		THEA-80L-01G		Discussion			DIS	F	09:00A-10:10A		TA Drama B201	Staff	
24266		THEA-80L-01H		Discussion			DIS	F	10:30A-11:40A		TA Drama B201	Staff	
24267		THEA-80L-01I		Discussion			DIS	F	12:00P-01:10P		TA Drama B201	Staff	
24268		THEA-80L-01J		Discussion			DIS	F	01:30P-02:40P		TA Drama B201	Staff	
24269		THEA-80L-01K		Discussion			DIS	F	03:00P-04:10P		TA Drama B201	Staff	
24270		THEA-80L-01L		Discussion			DIS	Th	04:00P-05:10P		TA Offices J102	Staff	
21383		THEA-80Z-01		Indian Dance	5	4A	STU	TTh	10:00A-11:45A		TA Exp Theater L106	Staff	
23140		THEA-100A-01		Asian Theater/Dance	5	AE	LEC	TTh	02:00P-03:45P		TA Offices J102	Foley,M.K.	
24272		THEA-113-01		Hist Theater Design	5	A	LEC	MW	12:00P-01:45P		TA Lecture E100	Baron,B.S.	
21838		THEA-124-01		Movement Performers	5	A	STU	TTh	10:00A-11:45A		TA Mainstage A105	Staff	
24273	Y	THEA-126-01		Acting Studio III	5	A	STU	MW	11:30A-01:30P		TA Drama B100	Gallagher,P.M.	
24648		THEA-128-01		Choreographic Wkshp	5	A	STU	MW	11:30A-01:15P		TA Mainstage A104	Staff	
24274	Y	THEA-136C-01		Dance Studio III	5	A	STU	MWF	09:30A-11:00A		TA Mainstage A104	Staff	
20687	Y	THEA-151-01		Stdy Perform Drama	5	A	STU	MTWTh	07:00P-10:00P		TA Mainstage A100	Whitworth,P.	
<i>See Enrollment Conditions for instructions</i>													
								F	03:30P-06:30P		TA Mainstage A100		
21190		THEA-157-01		Playwriting	5	WA	SEM	MW	10:00A-12:00P		TA 2nd Stage	Bierman,J.H.	R
24275		THEA-163G-01		Artaud	5	A	LEC	MW	12:00P-02:00P		TA Offices J102	Jannarone,K.M.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22907		THEA-165-01		IntroDanceModernism	5	A	LEC	MW	02:00P-03:45P		TA Lecture E100	Staff	
22909		THEA-170-01		Design Seminar	2		SEM	W	03:45P-05:00P		TA Studio C102	Baron,B.S. Cuthbert,D.L. Edmunds,K.	R
24276		THEA-185-01		Senior Seminar	5		SEM	M	01:30P-04:30P		TA Lecture E100	Scheie,D.	R
20771		THEA-290-01		Special Topics	5		SEM	M	12:00P-03:30P		TA Offices J101	Bierman,J.H.	R

## Writing

Sections of Writing 1 and Writing 2 are taught concurrently in the same rooms. Students entering UCSC prior to fall 2005 should enroll in Writing 1.

Students entering UCSC fall 2005 or after should enroll in Writing 2.

20921		WRIT-1-01		Compos & Rhetoric	5	C	SEM	MWF	08:00A-09:10A		Hum & Soc Sci 350	Staff	R
20922		WRIT-1-02		Compos & Rhetoric	5	C	SEM	MWF	02:00P-03:10P		Merrill Acad 132	Staff	R
20923		WRIT-1-03		Compos & Rhetoric	5	C	SEM	MWF	09:30A-10:40A		Hum & Soc Sci 350	Staff	R
20924		WRIT-1-04		Compos & Rhetoric	5	C	SEM	MWF	02:00P-03:10P		Kresge Acad 194	Staff	R
20925		WRIT-1-05		Compos & Rhetoric	5	C	SEM	MW	05:00P-06:45P		Hum & Soc Sci 250	Staff	R
20926		WRIT-1-06		Compos & Rhetoric	5	C	SEM	TTh	02:00P-03:45P		Hum & Soc Sci 250	Staff	R
20927		WRIT-1-07		Compos & Rhetoric	5	C	SEM	TTh	04:00P-05:45P		Merrill Acad 130	Staff	R
20928		WRIT-1-08		Compos & Rhetoric	5	C	SEM	MWF	11:00A-12:10P		Kresge Acad 194	Abrams,E.S.	R
24307		WRIT-1-09		Compos & Rhetoric	5	C	SEM	TTh	04:00P-05:45P		Eight Acad 242	Baker,M.	R
24308		WRIT-1-10		Compos & Rhetoric	5	C	SEM	MWF	12:30P-01:40P		Kresge Clrm 323	Freeman,C.M.	R
24309		WRIT-1-11		Compos & Rhetoric	5	C	SEM	TTh	12:00P-01:45P		Kresge Acad 194	Hamilton,R.P.	R
24310		WRIT-1-12		Compos & Rhetoric	5	C	SEM	TTh	02:00P-03:45P		Porter Acad 144	Hamilton,R.P.	R
24311		WRIT-1-13		Compos & Rhetoric	5	C	SEM	TTh	06:00P-07:45P		Hum & Soc Sci 250	Staff	R
24312		WRIT-1-14		Compos & Rhetoric	5	C	SEM	MWF	03:30P-04:40P		Kresge Clrm 325	Wilson,J.A.	R
22383		WRIT-2-01		Rhetoric & Inquiry	5	C2	SEM	MWF	08:00A-09:10A		Hum & Soc Sci 350	Staff	R
22384		WRIT-2-02		Rhetoric & Inquiry	5	C2	SEM	MWF	02:00P-03:10P		Merrill Acad 132	Staff	R
22385		WRIT-2-03		Rhetoric & Inquiry	5	C2	SEM	MWF	09:30A-10:40A		Hum & Soc Sci 350	Staff	R
22386		WRIT-2-04		Rhetoric & Inquiry	5	C2	SEM	MWF	02:00P-03:10P		Kresge Acad 194	Staff	R
22387		WRIT-2-05		Rhetoric & Inquiry	5	C2	SEM	MW	05:00P-06:45P		Hum & Soc Sci 250	Staff	R
22388		WRIT-2-06		Rhetoric & Inquiry	5	C2	SEM	TTh	02:00P-03:45P		Hum & Soc Sci 250	Staff	R
22389		WRIT-2-07		Rhetoric & Inquiry	5	C2	SEM	TTh	04:00P-05:45P		Merrill Acad 130	Staff	R
22390		WRIT-2-08		Rhetoric & Inquiry	5	C2	SEM	MWF	11:00A-12:10P		Kresge Acad 194	Abrams,E.S.	R
24313		WRIT-2-09		Rhetoric & Inquiry	5	C2	SEM	TTh	04:00P-05:45P		Eight Acad 242	Baker,M.	R
24314		WRIT-2-10		Rhetoric & Inquiry	5	C2	SEM	MWF	12:30P-01:40P		Kresge Clrm 323	Freeman,C.M.	R
24315		WRIT-2-11		Rhetoric & Inquiry	5	C2	SEM	TTh	12:00P-01:45P		Kresge Acad 194	Hamilton,R.P.	R
24316		WRIT-2-12		Rhetoric & Inquiry	5	C2	SEM	TTh	02:00P-03:45P		Porter Acad 144	Hamilton,R.P.	R
24317		WRIT-2-13		Rhetoric & Inquiry	5	C2	SEM	TTh	06:00P-07:45P		Hum & Soc Sci 250	Staff	R
24318		WRIT-2-14		Rhetoric & Inquiry	5	C2	SEM	MWF	03:30P-04:40P		Kresge Clrm 325	Wilson,J.A.	R
20958		WRIT-22A-01		Grammar & Editing	3		SEM	TTh	02:00P-03:10P		Oakes Acad 103	Krusoe,N.	
20959		WRIT-22A-02		Grammar & Editing	3		SEM	TTh	04:00P-05:10P		Oakes Acad 103	Krusoe,N.	
21123		WRIT-22A-03		Grammar & Editing	3		SEM	MW	03:30P-04:40P		Oakes Acad 103	Scripture,D.D.	
22436		WRIT-23-01		Grammar and Rhetoric	5		SEM	MWF	11:00A-12:10P		Soc Sci 2 141	Kim,J.	
23415		WRIT-23-02		Grammar and Rhetoric	5		SEM	MWF	12:30P-01:40P		Soc Sci 2 141	Kim,J.	
		WRIT-93-XXX		Field Study	5		FLI		**To Be Arranged**			Staff	
		See sponsoring agency for class number											
		WRIT-93F-XXX		Field Study	2		FLI		**To Be Arranged**			Staff	
		See sponsoring agency for class number											
		WRIT-99-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
		See sponsoring agency for class number											
		WRIT-99F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	
		See sponsoring agency for class number											
20978	Y	WRIT-169-01		Tutoring Writing	3		SEM	MW	05:00P-06:45P		Eight Acad 242	Newberry,E.S.	
		See Enrollment Conditions for instructions											
20979	Y	WRIT-169-02		Tutoring Writing	3		SEM	TTh	04:00P-05:45P		Cowell Acad 113	Weaver,A.L.	
		See Enrollment Conditions for instructions											
24319	Y	WRIT-169-03		Tutoring Writing	3		SEM	TTh	06:00P-07:45P		Cowell Acad 113	Weaver,A.L.	
		WRIT-189-XXX		Teaching Writing	5		IND		**To Be Arranged**			Staff	

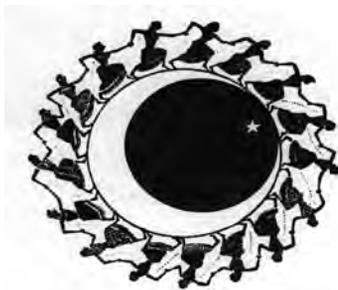
See sponsoring agency for class number	<b>WRIT-191A-XXX</b>	<b>Intern In Writing</b>	5	FLI	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-191B-XXX</b>	<b>Intern In Editing</b>	5	FLI	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-191C-XXX</b>	<b>Intern In Publish</b>	5	FLI	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-191D-XXX</b>	<b>Intern In Broadcast</b>	5	FLI	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-192-XXX</b>	<b>Dir Stu Teach</b>	5	IND	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-193-XXX</b>	<b>Field Study</b>	5	FLI	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-193F-XXX</b>	<b>Field Study</b>	2	FLI	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-194-XXX</b>	<b>Group Tutorial</b>	5	IND	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-195-XXX</b>	<b>Senior Thesis</b>	5	IND	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-198-XXX</b>	<b>Indep Field Study</b>	5	FLI	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-198F-XXX</b>	<b>Indepen Field Study</b>	2	FLI	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-199-XXX</b>	<b>Tutorial</b>	5	IND	<b>**To Be Arranged**</b>	Staff
See sponsoring agency for class number	<b>WRIT-199F-XXX</b>	<b>Tutorial</b>	2	IND	<b>**To Be Arranged**</b>	Staff

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# SCHEDULE PLANNER

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
8:00							
8:30							
9:00	class # _____		class # _____		class # _____		
9:30		class # _____		class # _____			
10:00							
10:30	class # _____		class # _____		class # _____		
11:00							
11:30		class # _____		class # _____			
12:00	class # _____		class # _____		class # _____		
12:30							
1:00							
1:30	class # _____						
2:00							
2:30							
3:00	class # _____		class # _____		class # _____		
3:30		class # _____		class # _____			
4:00							
4:30	class # _____		class # _____		class # _____		
5:00							
5:30		class # _____		class # _____			
6:00							
6:30	class # _____		class # _____		class # _____		
7:00							
7:30		class # _____		class # _____			
8:00							
8:30	class # _____		class # _____		class # _____		
9:00							
9:30							
10:00							
10:30	class # _____						

MWF 8:00–9:10 A.M.  
 MWF 9:30–10:40 A.M.  
 MWF 11:00 A.M.–12:10 P.M.  
 MWF 12:30–1:40 P.M.  
 MWF 2:00–3:10 P.M.  
 MWF 3:30–4:40 P.M.  
 MW 5:00–6:45 P.M.  
 MW 7:00–8:45 P.M.

TTH 8:00–9:45 A.M.  
 TTH 10:00–11:45 A.M.  
 TTH 12:00–1:45 P.M.  
 TTH 2:00–3:45 P.M.  
 TTH 4:00–5:45 P.M.  
 TTH 6:00–7:45 P.M.  
 TTH 8:00–9:45 P.M.

(20-minute breaks between classes)

(15-minute breaks between classes)

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If you believe you have witnessed, or that you have been a target of, a hate- or bias-motivated incident on campus or while participating in a University-sponsored activity, you may bring the incident to the attention of the Director for Student Judicial Affairs (refer to contact information below).

The Director for Student Judicial Affairs is available to assist you with any questions you may have about your options, advice, and/or referrals. You are not obligated to use your name. However, should you want Student Judicial Affairs to investigate, your name will be needed. The Dean of Students (DOS) is also available to provide support to members of the UCSC community. The DOS serves as an ally to, and referral source for, those who have been targeted or who have witnessed a hate- or bias-motivated incident.

A copy of the campus Hate/Bias Incident Policy can be found in the *UCSC Student Policies and Regulations Handbook, Appendix M* or on the web at [www2.ucsc.edu/judicial](http://www2.ucsc.edu/judicial).

**INCIDENT:** Please describe the incident as specifically as possible. Include date, time and location. If you do not know the identity of the person(s) who initiated the incident, provide as accurate a physical description as possible. Also list names of any possible witnesses. (Use additional pages if necessary).

**Please indicate category of bias:**

- |                                           |                                   |                                             |                                                |                                 |                                          |
|-------------------------------------------|-----------------------------------|---------------------------------------------|------------------------------------------------|---------------------------------|------------------------------------------|
| <input type="checkbox"/> age              | <input type="checkbox"/> creed    | <input type="checkbox"/> ethnicity          | <input type="checkbox"/> race                  | <input type="checkbox"/> gender | <input type="checkbox"/> gender identity |
| <input type="checkbox"/> physical ability | <input type="checkbox"/> religion | <input type="checkbox"/> sexual orientation | <input type="checkbox"/> socio-economic status |                                 |                                          |

**Action you are requesting:**

- |                                                                           |                                                                                               |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Information only, no action requested            | <input type="checkbox"/> Have the DOS contact me*                                             |
| <input type="checkbox"/> Review for possible student disciplinary action* | <input type="checkbox"/> Forward to Department Chair (Faculty)*                               |
| <input type="checkbox"/> Forward report to supervisor (Staff members)*    | <input type="checkbox"/> I wish to be contacted by an EEO/AA representative (Employees only)* |
| <input type="checkbox"/> Contact me for follow-up on this report*         |                                                                                               |

(\*) Please provide the following:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Send Reporting Forms to:**  
Student Judicial Affairs  
125 Hahn Student Services  
Phone: (831) 459-1738 Fax: (831) 459-7013  
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## DEPARTMENT CONTACT INFORMATION

AGENCY CONTACT, PHONE, LOCATION, E-MAIL	CHAIR, COORDINATOR	AGENCY CONTACT, PHONE, LOCATION, E-MAIL	CHAIR, COORDINATOR
<b>American Studies</b> ..... <b>Eric Porter</b> Dept. Manager: Marti Stanton, 9-3981, 209 Humanities 1 (mstanton@ucsc.edu) Undergraduate Adviser: Donna Davis, 9-4658, 209 Humanities 1 (amst@ucsc.edu)		Academic Adviser: David Lawson, 9-2589 (davidlaw@ucsc.edu) Credentials Analyst: Kim Jackson, 9-2200 (kljacks@ucsc.edu) Academic Human Resources Coordinator: Bryony Cohelan, 9-1586 (bryony@ucsc.edu) Dept. Manager: Gillian McGuire, 9-4102 (gmcguire@ucsc.edu) Placement Asst.: Alison DeAratanha, 9-1261 (alisond@ucsc.edu) Department Asst.: Robin Testa, 9-3249 (edfs@ucsc.edu)	
<b>Anthropology</b> ..... <b>Judith Habicht-Mauche</b> 9-3320, 361A Social Sciences 1 (anthro_ugradadv@ucsc.edu) Undergraduate Adviser: Stephanie Crider, (crider@ucsc.edu)		<b>Electrical Engineering</b> ..... <b>John Vesecky</b> Undergraduate Program: Undergraduate Advising Office, 9-5840, 227 Jack Baskin Engineering (advising@soe.ucsc.edu) Graduate Program: Carol Mullane, 9-2576, 298H Engineering 2 (mullane@soe.ucsc.edu)	
<b>Applied Mathematics and Statistics</b> ..... <b>Marc Mangel</b> Undergraduate Program: Undergraduate Advising Office, 9-5840, 227 Jack Baskin Engineering (advising@soe.ucsc.edu) Computer Science Graduate Adviser: Tracie Tucker, 9-5737, 298G Engineering 2 (ttucker@soe.ucsc.edu)		<b>Environmental Studies</b> ..... <b>Daniel Press</b> Undergraduate Program, 9-2634, 405 ISB (envs.undg@ucsc.edu) Undergraduate Adviser: Charlene McCord, 9-5004 (envs.undg@ucsc.edu)	
<b>Art</b> ..... <b>Elizabeth Stephens</b> Dept. Manager: Hannah Pederson (pederson@ucsc.edu) Dept. Assistant: Sarah Diaz-Bastin, 9-2272 (visart@ucsc.edu), E104 Baskin Visual Arts Undergraduate Adviser: Jude Pipes, 9-3551 (judereg@ucsc.edu)		<b>Environmental Toxicology</b> ..... <b>Don Smith</b> Dept. Manager: Claudia McClure, 9-4719, 430 Physical Sciences Building (mcclure@etox.ucsc.edu)	
<b>Art History (see History of Art and Visual Culture)</b>		<b>Feminist Studies (formerly Women's Studies)</b> ..... <b>Gina Dent</b> Dept. Manager: Breana George, 9-4324 (breana@ucsc.edu) Adviser: Nicolette Czarrunchick (fmst@ucsc.edu), 9-2461, 315 Humanities 1	
<b>Astronomy and Astrophysics</b> ..... <b>Sandra Faber</b> Dept. Manager: Sissy Madden, 9-3581, 201 ISB (smadden@ucsc.edu) Graduate Adviser: Maria Sliwinski, 9-2844 Dept. Assistant: Cathy Clausen, 9-2844		<b>Film and Digital Media</b> ..... <b>Shelley Stamp</b> Dept. Manager: Lynda Potzus; Dept. Adviser: Tamra Schmidt; Dept. Assistant: Jenny Brown; Dept. Assistant: Ibukun Bloom 9-3204, 101 Communications (film@ucsc.edu)	
<b>Biochemistry and Molecular Biology</b> ..... <b>Robert Ludwig</b> Cheryl Lira, 9-4125, 230 Physical Sciences Building (lira@chemistry.ucsc.edu)		<b>Health Sciences</b> ..... <b>Doug Kellogg</b> (See Biological Sciences)	
<b>Bioengineering</b> ..... <b>Richard Hughey</b> Undergraduate Program: Undergraduate Advising Office, 9-5480, 227 Jack Baskin Engineering, (advising@soe.ucsc.edu)		<b>History</b> ..... <b>Mark Traugott</b> Dept. Manager: Meg Lilienthal, 9-2621, 201A Humanities I Undergraduate Program: Stephanie Bauman, 9-2982, 201 Humanities I (historyundergrad@ucsc.edu) Graduate Program: Stephanie Hinkle, 9-4192, 201B Humanities I (history_grad@ucsc.edu) Academic Assistant: Carrie Clark, 9-3701, 201 Humanities I (history@ucsc.edu)	
<b>Biological Sciences</b> Undergraduate Advising Office, 9-4143, 387 Thimann Labs (bioadvise@biology.ucsc.edu) Undergraduate Advisers: Betty O'Donnell, Rebecca Heuer		<b>History of Art and Visual Culture</b> ..... <b>Jennifer González</b> Dept. Manager: Ruth Mutch, 9-3198 (rmutch@ucsc.edu) Dept. Assistant/Adviser: Rebecca Dew, 9-4564, D201 Porter (havc@ucsc.edu)	
<b>Biomolecular Engineering (Bioinformatics)</b> ..... <b>Phillip Berman</b> Undergraduate Program: Undergraduate Advising Office, 9-5840, 227 Jack Baskin Engineering (advising@soe.ucsc.edu) Graduate Program: Carol Mullane, 9-2576, 298H Engineering 2 (mullane@soe.ucsc.edu)		<b>History of Consciousness</b> ..... <b>Donna Haraway</b> Dept. Manager.: Anne Tuttle, 9-1478, 415 Humanities 1 (amtuttle@ucsc.edu) Dept. Assistant: Melanie Wylie, 9-2757, (mwylie@ucsc.edu)	
<b>Chemistry and Biochemistry</b> ..... <b>Olof Einarsdottir</b> Cheryl Lira, 9-4125, 230 Physical Sciences Building (lira@chemistry.ucsc.edu)		<b>Information Systems Management</b> ..... <b>Patrick Mantey</b> Undergraduate Program: Undergraduate Advising Office, 9-5840, 227 Jack Baskin Engineering (advising@soe.ucsc.edu)	
<b>Community Studies</b> ..... <b>Mary Beth Pudup</b> Joan Peterson, 9-2371, 231 Oakes (peterson@ucsc.edu)		<b>Language Program</b> ..... <b>William Nickell</b> Lisa Leslie, 9-2054, 239 Cowell (lmhunter@ucsc.edu) Sylvia Zito, 9-4854, 239 Cowell (zito@ucsc.edu)	
<b>Computer Engineering</b> ..... <b>Richard Hughey</b> Undergraduate Program: Undergraduate Advising Office, 9-5840, 227 Jack Baskin Engineering (advising@soe.ucsc.edu) Graduate Program: Carol Mullane, 9-2576, 298H Engineering 2 (mullane@soe.ucsc.edu)		<b>Language Studies (See Linguistics)</b> ..... <b>James McCloskey</b>	
<b>Computer Science</b> ..... <b>David Helmbold</b> Undergraduate Program: Undergraduate Advising Office, 9-5840, 227 Jack Baskin Engineering (advising@soe.ucsc.edu) Graduate Program: Tracie Tucker, 9-5737, 298G Engineering 2 (ttucker@soe.ucsc.edu)		<b>Latin American and Latino Studies</b> ..... <b>Patricia Zavella</b> Dept. Office: 9-4284, 32 Merrill Dept. Manager: Jill Esterás, 9-4354 (jesteras@ucsc.edu) Undergraduate Adviser: Alessandra Alvares, 9-2119 (aalvares@ucsc.edu) http://lals.ucsc.edu	
<b>Digital Arts and New Media</b> ..... <b>Sharon Daniel</b> Graduate Program: Felicia Rice, 9-1554, D121 Porter (fsrice@ucsc.edu) Program Assistant: Christine Imai, 9-5628, D121 Porter (cimai@ucsc.edu)		<b>Legal Studies</b> ..... <b>Paul Frymer</b> Undergraduate Program: 9-2505, 27 Merrill (legalstudies@ucsc.edu)	
<b>Dual Degree Engineering</b> ..... <b>Charlie McDowell</b> Undergraduate Program: Alicia Marquez, 9-4744, 227 Jack Baskin Engineering (alicia@soe.ucsc.edu)		<b>Linguistics</b> ..... <b>James McCloskey</b> Dept. Office, 241 Stevenson (ling@ucsc.edu) Undergraduate Program: Undergraduate Adviser, 9-4988, (ling@ucsc.edu) Graduate Program: Tanya Honig, 9-2905, (tbhonig@ucsc.edu)	
<b>Earth and Planetary Sciences</b> ..... <b>Paul Koch</b> Cathy Smith, 9-2504, A251 Earth & Marine Sci. (csmith@earthsci.ucsc.edu)		<b>Literature</b> ..... <b>TBA</b> Pam Lawson, 9-4778, 303 Humanities 1 (litdept@ucsc.edu)	
<b>Ecology and Evolutionary Biology</b> ..... <b>Pete Raimondi</b> (See Biological Sciences)		<b>Marine Biology</b> ..... <b>Pete Raimondi</b> (See Biological Sciences)	
<b>Economics</b> ..... <b>Ken Kletzer</b> Dept. Manager: JoAnn McFarland, 9-4849 (joann@ucsc.edu), 401 Engineering 2 Dept. Assistant: Leah-Ann Williams, 9-1242 (meekmok@ucsc.edu) Undergraduate Adviser: Lisa Morgan, 9-5028 (lmorgan@ucsc.edu) Undergraduate Adviser: Inga Tromba, 9-2743 (itromba@ucsc.edu) Graduate Adviser: Sandra Reebie, 9-2219 (screebie@ucsc.edu) Field Study Coordinator: Becky Brooks, 9-2028 (ecointern@ucsc.edu) Academic Support Coordinator: Leigh Faulk, 9-4107 (lsfaulk@ucsc.edu)		<b>Mathematics</b> ..... <b>Chongying Dong</b> Dept. Office, 9-2969, 194 J. Baskin Eng. (www.math.ucsc.edu) Undergraduate Program: Andrea Gilovich, 9-4691, 194 Jack Baskin Engineering (gilovich@ucsc.edu) Graduate Program: Ellen Morrison, 9-4086, 194 Jack Baskin Engineering (ellenmor@ucsc.edu)	
<b>Education</b> ..... <b>Rod Ogawa</b> Academic and Ed.D. Coordinator: Gina Wilkins, 9-4509 (gwilkins@ucsc.edu)			

## DEPARTMENT CONTACT INFORMATION

AGENCY CONTACT, PHONE, LOCATION, E-MAIL	CHAIR, COORDINATOR	AGENCY CONTACT, PHONE, LOCATION, E-MAIL	CHAIR, COORDINATOR
<b>Molecular, Cell, and Developmental Biology</b> ..... (See Biological Sciences)	<b>Doug Kellogg</b>	<b>Social Documentation</b> .....	<b>Mary Beth Pudup</b> Graduate Assistant, Jessica Hayden, 9-4706, 235 Oakes (jhayden@ucsc.edu)
<b>Music</b> .....	<b>Paul Nauert</b> Dept. Manager: Evelyn Day, 9-2809; Graduate Program: Yalenda Listmann, 9-3199; Undergraduate Program: Alice Szeto, 244 Music Center (music@ucsc.edu)	<b>Sociology</b> .....	<b>Andrew Szasz</b> Dept. Manager: Marilyn Chapin, 9-2831, 221 College Eight (mchapin@ucsc.edu) Dept. Office: Lisa Birney, 9-4306, 226 College Eight Undergraduate Adviser: Heather Lewis, 9-4497, 224 College Eight (hlewis@ucsc.edu) Graduate Program Coordinator: Ann McCarty, 9-3168, 225 College Eight (amccarty@ucsc.edu)
<b>Ocean Sciences</b> .....	<b>Margaret L. Delaney</b> Meyo Lopez, 9-4730, A312 Earth & Marine Sci. (meyo@ucsc.edu)	<b>Theater Arts</b> .....	<b>David Cuthbert</b> Dept. Manager: Nancy Hanson; Adviser: Angela Beck; Dept. Assistant Patrick North; 9-4075, J106 Theater Arts (theater@ucsc.edu)
<b>Philosophy</b> .....	<b>Paul Roth</b> Lynn Galiste, 9-4578, 4 Cowell Commons (elizg@ucsc.edu) Laura McShane, 9-2070, 5 Cowell Commons (lmcshane@ucsc.edu)	<b>Writing Program</b> .....	<b>Elizabeth Abrams</b> Program Assistant: Mary Schultz, 9-2431, 166 Kresge (writingprogram@ucsc.edu) Manager: Laurel Woodside, 9-3415, 170 Kresge (woodside@ucsc.edu)
<b>Physical Education</b> .....	<b>Ryan Andrews</b> Katie Savacool, 9-2531, 211 East Fieldhouse (ktcool@ucsc.edu)		
<b>Physics</b> .....	<b>Dave Belanger</b> Graduate Program: Jennifer Hild, 9-4122 (jhild@ucsc.edu) Undergraduate Program, general information: 9-2329, 211 ISB (advisor@physics.ucsc.edu)		
<b>Politics</b> .....	<b>Daniel Wirls</b> Undergraduate Program: 9-2505, 27 Merrill (polimajor@ucsc.edu) Graduate Program: 9-4450, 12 Merrill (poliphd@ucsc.edu)		
<b>Psychology</b> .....	<b>Martin Chemers</b> Undergraduate Program: 9-2002, 273 Social Sciences 2 Graduate Program: 9-4932		
<b>Science Communication</b> .....	<b>Robert Irion</b> Andrea Michels, 9-4475, 119 Kresge Annex A (scicom@ucsc.edu)		

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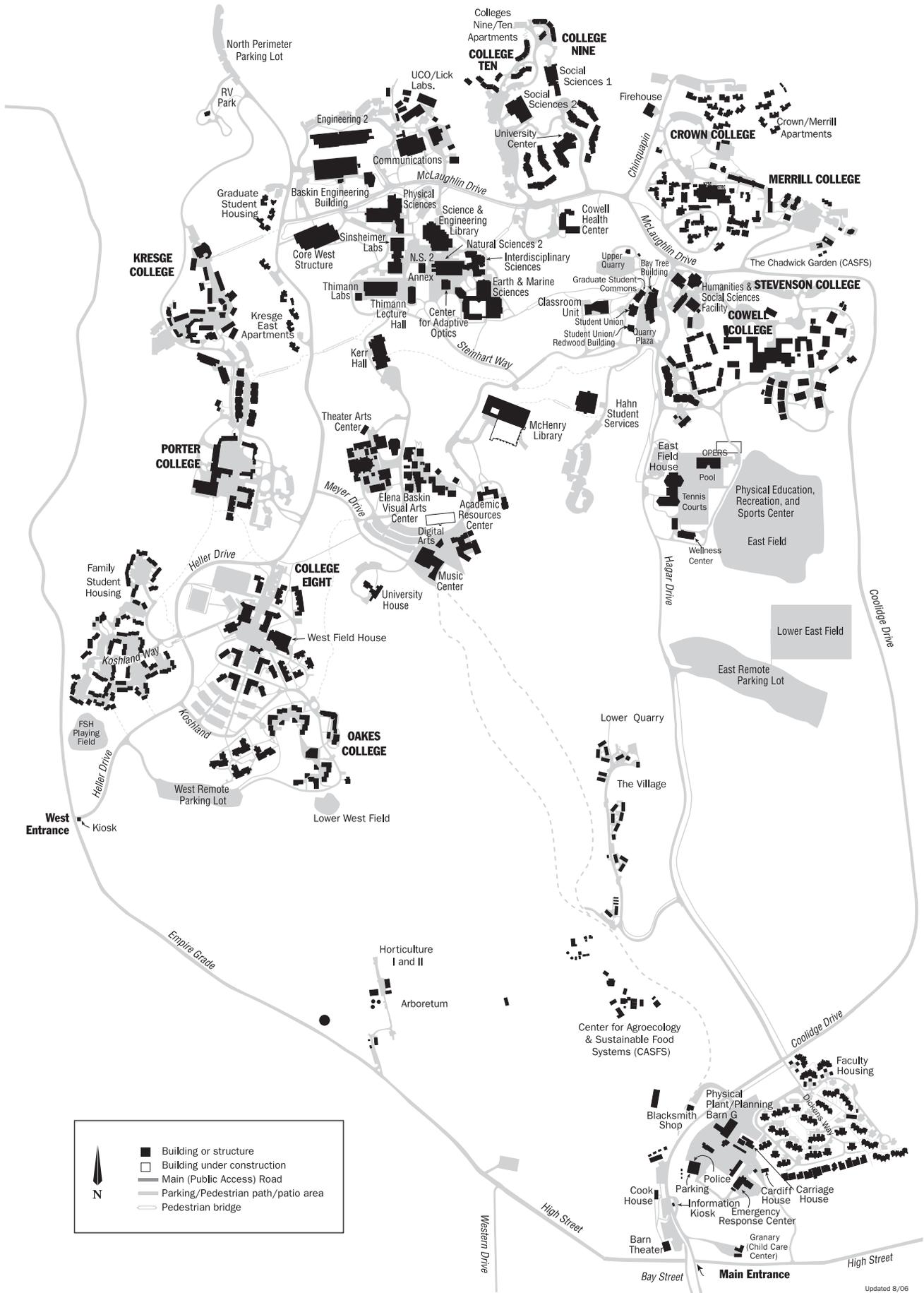
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	□ Building under construction
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	— Parking/Pedestrian path/patio area
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