

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

OFFICE OF THE REGISTRAR



Fall 2009 Schedule of Classes

Enrollment Appointment Schedule

Enrollment appointments are 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 27. Registration fees are due by 4 p.m. on September 17. A late registration fee of \$50 is assessed after the due date.

Paperless Bills Available on SallieMae

The Statement of Account is no longer mailed. It is available on SallieMae or the student portal. Students can sign up for SallieMae e-bill and e-check payment by visiting their portal. Please see page 20 for more information.

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/
MyUCSC portal: my.ucsc.edu

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Schedule of Classes



1156 High Street
Santa Cruz, CA 95064

Fall 2009

Web site: 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. 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, or the *Graduate Student Handbook*, at graddiv.ucsc.edu/regulations/handbook.php.

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 Planner: page 5
Final exam schedule: page 8
How to read the class listings: page 81
Class listings begin: page 82

4 Placement Exams

Placement exam schedule: page 10

5 Enrollment

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

6 Registration Fee Payment

Bills viewable on the MyUCSC portal: August 27, 2009
Payment due: September 17, 2009
Additional registration payment information: page 20, or online at <http://reg.ucsc.edu/faqs/fees.htm>

ONLINE RESOURCES

A–Z Index

www.ucsc.edu

Academic & Administrative Calendar

reg.ucsc.edu/calendar

Advance Course Information

reg.ucsc.edu/soc/aci

Bay Tree Bookstore

slugstore.ucsc.edu

Campus Cashier

sbs.ucsc.edu

Course Fees

reg.ucsc.edu/coursefees.html

Courses Online

www2.ucsc.edu/courses/

E-mail Accounts

its.ucsc.edu/services/help_desk

ITS Help Desk

itshelp.ucsc.edu

Navigator

reg.ucsc.edu/Navigator

Office of the Registrar

reg.ucsc.edu

Schedule of Classes

reg.ucsc.edu/soc

Student Business Services

sbs.ucsc.edu

Transfer Course Agreements

www.assist.org

UCSC General Catalog

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 # _____	class # _____	class # _____	class # _____	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 # _____	class # _____	class # _____	class # _____	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)

Saturday meeting times vary.

ACADEMIC AND ADMINISTRATIVE CALENDAR 2009–10

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 '09	Winter '10	Spring '10	Fall '09	Winter '10	Spring '10	
QUARTER BEGINS	Sept 19 Sat	Jan 4 Mon	Mar 29 Mon	BILLING STATEMENTS AVAILABLE ON PORTAL Including registration and housing fees.	Aug 27 Thur	Nov 24 Tues	Feb 25 Thur
ORIENTATION See orientation schedule for details (<i>orientation.ucsc.edu</i>).				MINIMUM CREDIT LIMIT ENFORCED Twelve credits for undergraduates and five credits for graduates.	Sept 16 Wed	Dec 22 Tues	Mar 24 Wed
INSTRUCTION BEGINS	Sept 24 Thur	Jan 5 Tues	Mar 29 Mon	FINANCIAL AID DISBURSED TO STUDENT ACCOUNTS	Sept 16 Wed	Dec 28 Mon	Mar 24 Wed
INSTRUCTION ENDS	Dec 4 Fri	Mar 15 Mon	June 4 Fri	HOUSING FEES DUE Cashier's Office.	Sept 17 Thur	Dec 17 Thur	Mar 18 Thur
FINAL EXAMINATIONS	Dec 7–10 Mon–Thur	Mar 16–19 Tues–Fri	June 7–10 Mon–Thur	UNDERGRADUATE REGISTRATION FEES DUE Late registration fee of \$50 assessed after this date. Cashier's Office.	Sept 17 Thur	Dec 17 Thur	Mar 18 Thur
QUARTER ENDS	Dec 10 Thur	Mar 19 Fri	June 10 Thur	STUDENT HEALTH INSURANCE Deadline to apply for waiver. Cowell Student Health Center.	Sept 17 Thur	Dec 17 Thur	Mar 18 Thur
COMMENCEMENTS			June 11–13 Fri–Sun	WITHDRAW FROM THE UNIVERSITY Deadline to file to withdraw during quarter and receive full registration fees refund. College/Division of Graduate Studies.	Sept 24 Thur	Jan 5 Tues	Mar 29 Mon
HOLIDAYS OBSERVED				UNDERGRADUATE ENROLLMENT DEADLINE Students must be enrolled in one class by this date, or \$50 late enrollment fee assessed.	Sept 28 Mon	Jan 7 Thur	Mar 31 Wed
Sept. 7–Labor Day		Jan. 18–Martin Luther King, Jr. Day		GRADUATE STUDENT ENROLLMENT AND FEE PAYMENT DEADLINE \$50 late enrollment fee after this date. Cashier's Office.	Oct 2 Fri	Jan 8 Fri	Apr 2 Fri
Nov. 11–Veterans Day		Feb. 15–Presidents' Day		GRADUATE STUDENT PART-TIME STATUS Deadline to apply for a reduced class load and fees. Department.	Oct 2 Fri	Jan 8 Fri	Apr 2 Fri
Nov. 26–27–Thanksgiving Holidays		March 26–César Chávez Day		CLASS PERMISSION NUMBERS REQUIRED	Oct 3 Sat	Jan 14 Thur	Apr 7 Wed
Dec. 24–25, Dec. 31–Winter Holidays		May 31–Memorial Day		ADD/DROP/SWAP CLASSES ENDS Deadline to process enrollment transactions.	Oct 14 Wed	Jan 26 Tues	Apr 16 Fri
Jan. 1–New Year's Day		July 5–Independence Day		GRADE OPTION Deadline to change grade option.	Oct 14 Wed	Jan 26 Tues	Apr 16 Fri

CAMPUS CLOSURE DATES The campus is closed from Thursday, December 24 through Sunday, January 3. (pending approval)

Advising and Advance Enrollment

Fall '09 Winter '10 Spring '10

Continuing and Readmitted Students (includes visitors)

ADVISING WEEK Continuing and readmitted undergraduates.	May 11–15 Mon–Fri	Nov 5–12 Thur–Thur	Feb 17–23 Wed–Tues
PRIORITY ENROLLMENT BEGINS Continuing and readmitted graduate and undergraduate students, by appointment.	May 18 Mon	Nov 13 Fri	Feb 24 Wed

Enrollment continues following priority enrollment. For more information, see the online Schedule of Classes at reg.ucsc.edu/soc.htm.

Fall '09 Winter '10

New Students

PRIORITY ENROLLMENT

New graduate students.	June 18 Thur	Dec 10 Thur
Undergraduates: priority groups and those who attend orientation, by appointment	July 21–31 Tues–Fri	Dec 11 Fri
Undergraduates new to UCSC who do not attend orientation	Aug 3 Mon	Dec. 14 Mon

Enrollment continues following priority enrollment. For more information, see the online Schedule of Classes at reg.ucsc.edu/soc.htm.

UNDERGRADUATE ENROLLMENT DEADLINE Students must be enrolled in one class by this date, or \$50 late enrollment fee assessed.	Sept 28 Mon	Jan 7 Thur	Mar 31 Wed
GRADUATE STUDENT ENROLLMENT AND FEE PAYMENT DEADLINE \$50 late enrollment fee after this date. Cashier's Office.	Oct 2 Fri	Jan 8 Fri	Apr 2 Fri
GRADUATE STUDENT PART-TIME STATUS Deadline to apply for a reduced class load and fees. Department.	Oct 2 Fri	Jan 8 Fri	Apr 2 Fri
CLASS PERMISSION NUMBERS REQUIRED	Oct 3 Sat	Jan 14 Thur	Apr 7 Wed
ADD/DROP/SWAP CLASSES ENDS Deadline to process enrollment transactions.	Oct 14 Wed	Jan 26 Tues	Apr 16 Fri
GRADE OPTION Deadline to change grade option.	Oct 14 Wed	Jan 26 Tues	Apr 16 Fri
UNDERGRADUATE PART-TIME PROGRAM Deadline to apply for a reduced class load and fees. Office of the Registrar.	Oct 14 Wed	Jan 26 Tues	Apr 16 Fri
ADD BY PETITION BEGINS First day to add a class by petition (\$10 fee). Office of the Registrar.	Oct 15 Thur	Jan 27 Wed	Apr 19 Mon
UNDERGRADUATE WITHDRAW FROM A CLASS BEGINS Students petition for a W (Withdraw) notation. College.	Oct 15 Thur	Jan 27 Wed	Apr 19 Mon
DECLARATION/CHANGE OF MAJOR/MINOR Deadline to file petition. Contact your department for major/minor declaration information.	Oct 23 Fri	Feb 5 Fri	Apr 30 Fri
UNDERGRADUATE WITHDRAW FROM A CLASS ENDS Deadline to petition for a W (Withdraw) grade notation, except for emergency reasons. College.	Nov 4 Wed	Feb 17 Wed	May 7 Fri

ACADEMIC AND ADMINISTRATIVE CALENDAR 2009–10

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 '09 Winter '10 Spring '10

UNDERGRADUATE CREDIT BY PETITION ENDS Nov 4 Feb 17 May 7
 Wed Wed Fri
 Deadline to file petition to challenge a class (\$10 fee). Office of the Registrar.

ADD BY PETITION ENDS Nov 4 Feb 17 May 7
 Wed Wed Fri
 Deadline to add a class by petition (\$10 fee). Office of the Registrar.

WITHDRAW FROM THE UNIVERSITY Nov 4 Feb 17 May 7
 Wed Wed Fri
 Deadline to file to withdraw during the quarter, except for emergency reasons. College/Division of Graduate Studies.

CHANGE OF COLLEGE Nov 30 Mar 1 May 6
 Mon Mon Thur
 Deadline to file petition to be effective the following quarter. College.

UNDERGRADUATE REMOVAL OF INCOMPLETE Dec 10 Mar 19 June 10
 Thur Fri 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 10 Mar 19 June 10
 Thur Fri Thur
 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 10 Mar 19 Aug 30
 Thur Fri Mon
 Deadline to petition for leave beginning the next quarter. College/Division of Graduate Studies.

GRADES DUE Dec 15 Mar 24 June 15
 Tues Wed Tues
 From instructors.

EVALUATIONS DUE Jan 11 Apr 12 July 1
 Mon Mon Thur
 From instructors.

Announcing Candidacy for Degree/Apply to Graduate

	Fall '09	Winter '10	Spring '10	Summer '10
GRADUATE STUDENTS	Oct 1 Thur	Jan 14 Thur	Apr 8 Thur	June 17 Thur

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

UNDERGRADUATES	Sept 19– Oct 23 Sat–Fri	Jan 4– Feb 5 Mon–Fri	March 29– April 28 Mon–Wed	June 21– July 30 Mon–Fri
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*Students who apply after the deadline are billed a \$40 late application fee.

GRADUATE STUDENTS	Dec 10 Thur	Mar 19 Fri	May 27* Thur	Aug 27 Fri
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* Students not participating in June commencement have until June 10 to complete all requirements for degree.

UNDERGRADUATES	Dec 10 Thur	Mar 19 Fri	June 10 Thur	Aug 27 Fri
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Deadline to complete all requirements for degree and for the Office of the Registrar to receive transcripts from other institutions.

Intercampus Visitor/Exchange Programs

UNDERGRADUATES	Apr 30	Oct 31	Jan 31 (Oct 1, UC Berkeley, UC Merced)
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GRADUATE STUDENTS	Aug 15 (Apr 30, 2009, UC Berkeley, UC Merced)	Nov 15	Feb 15
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Deadline to file application. Division of Graduate Studies.

Financial Aid

FINANCIAL AID APPLICATION FOR UNDERGRADUATES

- Submit the free Application for Federal Student Aid (FAFSA) by March 2 prior to each academic year at <http://www.fafsa.ed.gov/> for enrollment in fall 2009, file by March 2, 2009 for enrollment in fall 2010, file by March 2, 2010
- Complete your financial aid application by providing all supporting documentation requested on your MyUCSC To Do List by June 15 prior to the year for which you are applying.
- Applications received after the March 2 priority deadline and completed after the June 15 deadline will be considered for aid on a funds-available basis.

FINANCIAL AID APPLICATION FOR GRADUATES

- To apply for federal student loans, submit the Free Application for Federal Aid (FAFSA) each year at <http://www.fafsa.ed.gov/>. Applications are accepted throughout the academic year in which you are enrolled.
- To apply for other types of graduate support, contact your academic department.

Readmission

READMISSION APPLICATION

Undergraduates
 Filing deadline for priority enrollment.
 Office of Admissions.

Fall '09	Winter '10	Spring '10
Apr 1, 2009 Wed	Oct 1, 2009 Thur	Jan 3, 2010 Sun

READMISSION APPLICATION FINAL FILING DEADLINE

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

July 31, 2009 Fri	Oct 31, 2009 Sat	Jan 31, 2010 Sun
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For more information on procedures and deadlines, including links to the UCSC *General Catalog* and *Navigator Undergraduate Handbook*, go to reg.ucsc.edu.

For information on Summer Session procedures and deadlines, go to summer.ucsc.edu.

Graduate students may also refer to the *Graduate Student Handbook* at graddiv.ucsc.edu/regulations/handbook.php.

A printable version of this calendar is available at reg.ucsc.edu/calendar/calendar.pdf; for key dates, go to reg.ucsc.edu/calendar/2009_10.htm

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 2009 Final Examination Schedule

Class	Start	Exam Date	Exam Times
MWF	8:00 A.M.	Wednesday, December 9	8:00–11:00 A.M.
MWF	9:30 A.M.	Wednesday, December 9	4:00–7:00 P.M.
MWF	11:00 A.M.	Thursday, December 10	12:00–3:00 P.M.
MWF	12:30 P.M.	Monday, December 7	8:00–11:00 A.M.
MWF	2:00 P.M.	Monday, December 7	7:30–10:30 P.M.
MWF	3:30 P.M.	Thursday, December 10	8:00–11:00 A.M.
MW	5:00 P.M.	Monday, December 7	4:00–7:00 P.M.
MW	7:00 P.M.	Tuesday, December 8	4:00–7:00 P.M.
TuTh	8:00 A.M.	Tuesday, December 8	8:00–11:00 A.M.
TuTh	10:00 A.M.	Monday, December 7	12:00–3:00 P.M.
TuTh	12:00 noon	Wednesday, December 9	12:00–3:00 P.M.
TuTh	2:00 P.M.	Tuesday, December 8	12:00–3:00 P.M.
TuTh	4:00 P.M.	Tuesday, December 8	7:30–10:30 P.M.
TuTh	6:00 P.M.	Wednesday, December 9	7:30–10:30 P.M.
Non-Standard 1*		Thursday, December 10	4:00–7:00 P.M.
Non-Standard 2**		Thursday, December 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 2009 Final Exam Schedule by Time Block

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

FINAL EXAMINATION POLICIES AND SCHEDULE

Spring 2009 Final Examination Schedule

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

*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.

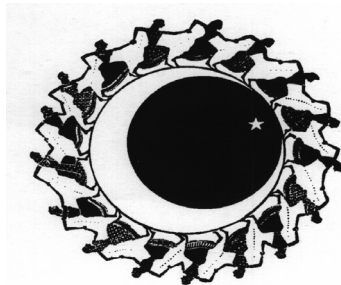
**Non-Standard 2: classes which have their first meeting T or Th and do not begin at 8:00 A.M., 10:00 A.M., 12:00 noon, 2:00 P.M., 4:00 P.M., or 6:00 P.M.

ADVERTISEMENT

Women's Self-Defense

"Alternatives to Fear"

**SIX MONDAYS
STARTS MONDAY,
OCTOBER 5,
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 459-2721

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

Continuing students: for Priority Enrollment, see the Chinese instructors during their office hours for placement. See Language Program Web site, <http://language.ucsc.edu>, for office hours and locations. Approximately 15 minutes to complete interview-style placement exam.

Sept. 22, 1:00–3:00 P.M., see faculty in 212 and 222 Cowell. Approximately 15 minutes to complete the interview-style placement exam.

FRENCH LANGUAGE

Continuing students: for Priority Enrollment, see the French instructors during their office hours for placement. See the Language Program Web site, <http://language.ucsc.edu>, for office hours and locations.

Sept. 22, 1:00–2:00 P.M., 131 Cowell.

Sept. 23, 1:00–2:00 P.M., 134 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

Continuing students: for Priority Enrollment, see the German instructors during their office hours for placement. See Language Program Web site, <http://language.ucsc.edu>, for office hours and locations.

Sept. 22, 1:00–2:00 P.M., see faculty, 250 Humanities and Social Science.

GREEK LANGUAGE

No placement exam is required for entry into Greek 1.

HEBREW LANGUAGE

No placement exam is required for entry into Hebrew 1. Contact Hebrew instructor for placement into level 4. See Language Program Web site, <http://language.ucsc.edu>, for office hours and locations.

HINDI LANGUAGE

No placement exam is required for entry into Hindi 1. Contact Hindi instructor for placement into level 4. See Language Program Web site, <http://language.ucsc.edu>, for office hours and locations.

ITALIAN LANGUAGE

Continuing students: for Priority Enrollment, see the Italian instructors during their office hours for placement. See the Language Program Web site, <http://language.ucsc.edu>, for office hours and locations.

JAPANESE LANGUAGE

Continuing students: for Priority Enrollment, see the Japanese instructors during their office hours.

See the Language Program Web site, <http://language.ucsc.edu>, for office hours and locations.

Sept. 22, 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 entry into 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.

Spring Exams; no pre-registration required.

May 9, 10:00–11:30 A.M.,

101J. Baskin Auditorium.

May 16, 10:00–11:30 A.M.,

101J. Baskin Auditorium

Orientation Week Exams; no pre-registration required.

September 21, 1:00–2:30 P.M.,

101J. Baskin Auditorium.

September 21, 3:00–4:30 P.M.,

101J. Baskin Auditorium

September 22, 1:00–2:30 P.M.,

101J. Baskin Auditorium.

September 22, 3:00–4:30 P.M.,

101J. Baskin Auditorium

September 23, 1:00–2:30 P.M.,

101J. Baskin Auditorium.

September 23, 3:00–4:30 P.M.,

101J. Baskin Auditorium

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 22, 10:00 A.M.–12:30 P.M., Music Center Recital Hall.

PORTUGUESE LANGUAGE

No placement exam is required for entry into Portuguese 1A. Continuing students: for Priority Enrollment, see the Portuguese instructor during office hours for placement into Portuguese 60A. See Language Program Web site, <http://language.ucsc.edu>, for office hours and locations.

RUSSIAN LANGUAGE

No placement exam is required for entry into Russian 1. Contact Russian instructor for placement into level 4. See Language Program Web site, <http://language.ucsc.edu>, for office hours and locations.

SPANISH LANGUAGE

The placement exam is an online exam and can be taken at any time. The Spanish placement exam is at 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 Priority Enrollment.

SPANISH FOR SPANISH SPEAKERS (SpSS)

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

WRITING

Analytical Writing Placement Exam (AWPE):
September 20, 1:00–3:00 P.M., M110 Media Theater, B206 Earth and Marine Sciences, and 105 Oakes.

November 21, 10:30 A.M.–12:30 P.M., 110 Media Theater, B206 Earth and Marine Sciences, 105 Oakes, Classroom Unit 2, and 3 Thimann.

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 100E, 100J

Admission determined at first class meeting. Time reserved Thursday, 4:00-5:45 p.m., for mandatory field study workshops. See department web site for more information.

FILM

All students applying for admission to an Interview Only course in film and digital media must attend the first class meeting.

FILM 170B

Beginning May 18, the application process will be online at film.ucsc.edu under the Program tab under Courses.

FILM 150, 171F, 172, 175

Beginning May 18, the application process will be online at film.ucsc.edu under the Program tab under Courses. Priority will be given to students who have been accepted into the production concentration through the portfolio review.

LTCR 52, 53

Please bring a three- to seven-page writing 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.

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

For audition/enrollment information, please check bulletin board outside 127 Music Center beginning September 19.

MUSC 5A-B-C, 10, 30L, 51, 60

Admission by instructor determination at first class meeting.

MUSC 30A

Admission by taking the Music Core Curriculum Placement Exam, September 22, 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 22, 1:30–4:30 p.m. See bulletin board upstairs in the Music Center for details. Obtain class number September 23–October 14 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 19.

MUSC 165, 265

Faculty sponsor required for chamber music workshops. Audition/enrollment information posted outside 127 Music Center beginning September 19. Class number available at the **beginning of the quarter** from 244 Music Center.

THEA 151

Admission by audition. Contact the department for information.

THEA 21A, 126

Audition at the first class meeting. Come prepared with a two monologues, one or two minutes in length.

WRIT 169

Qualifications determined by the instructor at the first class meeting.

ORIENTATIONS

Department Orientations

AMERICAN STUDIES

Sept. 22, 10:00–11:00 a.m., 245 Humanities I

ART

Sept. 22, 10:00 a.m.–12:00 noon., D101 Art Seminar Room

BIOLOGICAL SCIENCES

Sept. 22, 10:00–11:00 a.m., Thimann 3

CHEMISTRY AND BIOCHEMISTRY

Sept. 22, 10:00–11:00 a.m., 240 Physical Sciences Building

COMMUNITY STUDIES

Sept. 22, 10:00–11:30 a.m., 105 Oakes

EARTH AND PLANETARY SCIENCES

Sept. 22, 11:00 a.m.,
D258 Earth and Marine Sciences

ECONOMICS

Sept. 22, 9:00–10:30 a.m.
101 Jack Baskin Auditorium

ENVIRONMENTAL STUDIES

Sept. 22, Frosh: 9–10 a.m.; Transfers: 10–11 a.m.
Environmental Studies Advising Fair: Sept. 23,
10:00 a.m.–12 noon
All in 221 ISB

FEMINIST STUDIES

Sept. 22, 11:00 a.m.–12:00 noon,
134 Cowell

FILM AND DIGITAL MEDIA

Sept. 22, 10:00 a.m.–12:00 noon, Studio C,
150 Communications

HISTORY

Sept. 22, 10:00–11:30 a.m., 210 Humanities 1

HISTORY OF ART AND VISUAL CULTURE

Sept. 22, 10:00–11:30 a.m., 248 Porter

LATIN AMERICAN AND LATINO STUDIES

Sept. 22, 11:00 a.m.–12:00 p.m.,
Charles E. Merrill Lounge

LEGAL STUDIES

Sept. 22, 10:00 a.m.–11:00 a.m.,
Charles E. Merrill Lounge

LINGUISTICS

Sept. 22, 10:00–11:00 a.m., 175 Stevenson

LITERATURE

Sept. 22, 10:00–11:30 a.m., 206 Humanities
Lecture Hall

MUSIC

Sept. 22, 9:00–9:45 a.m.,
301A Jack Baskin Engineering

MATHEMATICS

Sept. 22, 11:00 a.m.–12:00 noon,
301A Jack Baskin Engineering

PHILOSOPHY

Sept. 22, 11:00 a.m.–12:00 noon, Humanities I,
Room 400 (department conference room)

PHYSICS

Sept. 22, 10:00 a.m.–12:00 noon,
231 Interdisciplinary Sciences Building

POLITICS

Sept. 22, 9:00 a.m.–10:00 a.m.,
Charles E. Merrill Lounge

PSYCHOLOGY

Sept. 22, Frosh: 9:00–10:00 a.m.;
Junior Transfers: 10:00–11:00 a.m.
B206 Earth and Marine Sciences
Psychology Advising Fair, 1:30–3:00 p.m.,
Sept. 23, outside Social Sciences 1 and 2

SCHOOL OF ENGINEERING

Sept. 22, 10:30 a.m.–12:30 p.m.,
101 Engineering Lecture

SOCIOLOGY

Sept. 22, 10:00–11:00 a.m., 240 College Eight

THEATER ARTS

Sept. 22, 10:00 a.m., Theater Arts, Second Stage

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Enrolling is easy!

Just log on to [https://my.ucsc.edu/accounts and billing>salliemae](https://my.ucsc.edu/accounts_and_billing/salliemae)
and follow the simple enrollment steps to activate your e-Bill account.

Student Business Services

(831)459-2107 or oarinfo@ucsc.edu

<http://sbs.ucsc.edu>

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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.

ENROLLMENT INFORMATION

Graduate Student Enrollment Appointment Schedule

- View your appointment time(s) on MyUCSC. Click on My Student Center.
- 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

5/18	5/19	6/18	10/3
Graduate Students 19-unit limit Appointments at 9:00 A.M.	Enrollment continues for graduate students	New graduate student enrollment	Graduate student enrollment fee deadline

Undergraduate Two-Pass Enrollment Appointment Schedule on Page 14

Key Dates for Undergraduate Registration and Enrollment

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

Priority Enrollment Begins By Appointment Continuing and Readmitted Undergraduates May 18	New Enrollment Begins Enrollment Closed to Continuing Undergraduates July 21	Registration Fees Dues September 17**
Enrollment Deadline September 28†	Permission Numbers Required October 3	Add/Drop/Swap Ends October 14
Grade Option Deadline October 14	Withdraw from a Class (W grade) October 15 – November 4	Add by Petition Period October 15 – November 4

** 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.

ENROLLMENT INFORMATION

Undergraduate Two-Pass Enrollment Appointment Schedule

- Get advising during Advising Week, May 11–May 15.
- 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 July 17–August 9.
- Enrollment Appointment FAQs: http://reg.ucsc.edu/enrollment_appointments/faqs.html

5/18	5/19	5/20–6/27	7/17–8/9	8/10–10/14
Priority Groups 19-unit limit 10:00 A.M.–1:00 P.M. Appts. every 1/2 hr.	Seniors 19-unit limit 9:00 A.M.–4:30 P.M. Appts. every 1/2 hr.	Enrollment continues for priority groups and seniors.	New Student Enrollment. Enrollment closed to continuing students.	Enrollment continues for all undergraduate students.

First-Pass Appointments

Second-Pass Appointments

Enrollment Continues

5/20	5/21–5/26	5/27	5/28–7/16	7/17–8/9	8/10–10/14
Juniors 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 26.	Juniors 19-unit limit 9:00 A.M.–4:30 P.M. Appts. every 1/2 hr.	Enrollment continues for juniors.	New Student Enrollment. Enrollment closed to continuing undergraduate students.	Enrollment continues for all undergraduate students.

5/21	5/22–5/26	5/28	5/29–7/16	7/17–8/9	8/10–10/14
Sophomores 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 26.	Sophomores 19-unit limit 9:00 A.M.–4:30 P.M. Appts. every 1/2 hr.	Enrollment continues for sophomores.	New Student Enrollment. Enrollment closed to continuing undergraduate students.	Enrollment continues for all undergraduate students.

5/22	5/23–5/26	5/29	5/30–7/16	7/17–8/9	8/10–10/14
Frosh 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 26.	Frosh 19-unit limit 9:00 A.M.–4:30 P.M. Appts. every 1/2 hr.	Enrollment continues for frosh.	New Student Enrollment. Enrollment closed to continuing undergraduate students.	Enrollment continues for all undergraduate students.

Determining Your Academic Level

Freshman: 0–44.9 credits Sophomore: 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/.
 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 Student Center. 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 and clicking on the Student Center.

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_request.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 edit function. For more information, see http://reg.ucsc.edu/faqs/pdf/Change_Grade_Option_or_Section.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

ENROLLMENT INFORMATION

and can be used only once. Also, after an unsuccessful 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) discussion 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 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

U.S. Ethnic Studies Courses for Fall 2009

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 125A	<i>Aspects of African American Culture</i>
ANTH 80G	<i>Barrio Popular Culture</i>
ANTH 130F	<i>African Diasporas in the Americas</i>
CMMU 80B	<i>Civil Rights Movement: Grassroots Change and American Society</i>
CMMU 100J	<i>Immigration and Social Justice</i>
CMMU 122	<i>Whiteness, Racism, and Anti-Racism</i>
EDUC 60	<i>Introduction to Education: Learning, Schooling, and Society</i>
EDUC 128	<i>Immigrants and Education</i>
FMST 124	<i>Technologies and Latinidad: Cyberspace and Beyond</i>
HAVC 80M	<i>Indigenous American Visual Culture</i>
HIS 106B	<i>Asian and Asian American History, 1941-Present</i>
HIS 128	<i>Chicana/Chicano History</i>
HIS 190D	<i>Tale of Two Cities</i>
LALS 1	<i>Introduction to Latin American and Latino Studies</i>
LALS 80Q	<i>Musica Latina</i>
LALS 146	<i>Urban Crisis in the Americas</i>
LALS 173	<i>Latin American Immigration to the U.S.</i>
LALS 194P	<i>Tale of Two Cities</i>
LTEL 150C	<i>Asian American Literature</i>
LTWL 190B	<i>Studies in Slavery, Race, and Nation in the Americas</i>
OAKS 80A	<i>Introduction to University Discourse: Values and Change in a Diverse Society</i>
OAKS 80B	<i>Rhetoric and Inquiry: Values and Change in a Diverse Society</i>
SOCY 156	<i>U.S. Latino/a Identities: Centers and Margins</i>
STEV 80H	<i>Rainbow Theater: An Introduction to Multicultural Theater</i>

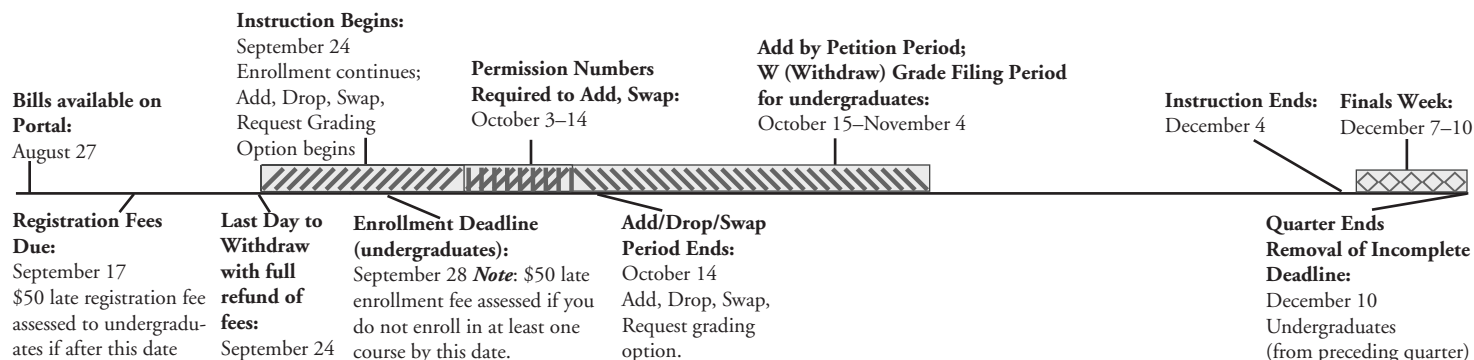
be required earlier. If necessary, the instructor will issue a class permission number.

Print your Class Schedule from the Student Center by clicking on Enroll and then clicking on the My Class Schedule tab.

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.

Fall 2009 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 2009–10. Contact the departments for more information. This list is also available on the web at reg.ucsc.edu/coursefees.html. **Note for financial aid recipients:** A modest allowance for course materials fees is included in the cost of attendance budget on which your financial aid is based. If high course material fee costs are preventing you from enrolling in a course(s) and you need additional assistance, contact the Financial Aid Office to discuss your options.

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>	\$1700
ANTH 290B <i>Primate Field Ecology: Field Methods in Primatology</i>	\$1700

Art

ART 10G <i>2D Foundation</i>	\$5
ART 10H <i>3D Foundation</i>	\$50
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>	\$45
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, & Place</i> ..	\$65
ART 40 <i>Sculpture I</i>	\$65
ART 60 <i>Forms and Ideas</i>	\$15
ART 80A <i>Introduction to Drawing–Non-Majors</i> ..	\$10
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 105 <i>Special Topics in Drawing</i>	\$60
ART 106A <i>Sr. Studio in Draw/Paint</i>	\$48
ART 106B <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>	\$45
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>	\$75
ART 131 <i>Advanced Photography</i>	\$75
ART 132 <i>Color in Photography</i>	\$77
ART 133A <i>Sr. Studio in Photography</i>	\$75
ART 134 <i>Special Topics in Photography</i>	\$75
ART 135 <i>Intro Digital Photography</i>	\$75
ART 136 <i>Adv Digital Photography</i>	\$75
ART 138 <i>Intermediate/Adv Sculpture</i>	\$65

ART 139 <i>Intermed/Adv Sculpture Foundry</i>	\$150
ART 140 <i>Metal Sculpture</i>	\$95
ART 141 <i>Sculpture II</i>	\$75
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 Intermedial Conceptual and Process-Oriented Approaches</i>	\$65
ART 148 <i>Special Topics Sculpture/Public Art</i>	\$65
ART 156 <i>Topics in Public Art: Memory, Landscape, and Artist as Activist</i>	\$65
ART 159A <i>Senior Studio in Intermedia, Sculpture, and Electronic Art</i>	\$65
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>	\$75
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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>	\$50
BIOE 117L <i>Systematic Botany of Flowering Plants Laboratory</i>	\$25
BIOE 120L <i>Marine Botany Laboratory</i>	\$30
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>	\$20
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>	\$60
BIOE 151 <i>Ecology and Conservation in Practice Supercourse</i>	\$1,090
BIOE 158L <i>Marine Ecology Laboratory</i>	\$40
BIOE 159A <i>Marine Ecology Field Quarter</i>	\$3,392
BIOE 161L <i>Kelp Forest Ecology Laboratory</i>	\$80
BIOL 20L <i>Experimental Biology Laboratory</i>	\$20
BIOL 100L <i>Biochemistry Laboratory</i>	\$25
BIOL 105L <i>Eukaryotic Genetics Laboratory</i>	\$30
BIOL 105M <i>Microbial Genetics Laboratory</i>	\$25
BIOL 109L <i>Yeast Molecular Genetics Lab</i>	\$50
BIOL 110L <i>Cell Biology Laboratory</i>	\$60
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>	\$15
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

Biomolecular Engineering

BME 123A <i>BME Senior Design Project I</i>	\$40
BME 123B <i>BME Senior Design Project II</i>	\$40

Chemistry

CHEM 1M <i>General Chemistry Laboratory</i>	\$13
CHEM 1N <i>General Chemistry Laboratory</i>	\$15
CHEM 108L <i>Organic Chemistry Lab</i>	\$30

CHEM 108M <i>Organic Chemistry Lab</i>	\$40
CHEM 112L <i>Organic Chemistry Lab</i>	\$40
CHEM 112M <i>Organic Chemistry Lab</i>	\$40
CHEM 112N <i>Organic Chemistry Lab</i>	\$85
CHEM 122 <i>Principles Instrumental Analysis</i>	\$40
CHEM 146A <i>Adv Lab Organic Chemistry</i>	\$75
CHEM 146B <i>Adv Lab Inorganic Chemistry</i>	\$75
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>	\$31
CMPE 117L <i>Embedded Software Laboratory</i> ...	\$30
CMPE 118L <i>Intro. to Mechatronics Lab</i>	\$146
CMPE 121L <i>Microprocessor Sys. Design Lab</i> ..	\$205
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 173L <i>Hi Speed Dig Design Lab</i>	\$25
CMPE 174 <i>Intro. to EDA Tools for PCB Design</i> ..	\$25
CMPE 218L <i>Mechatronics Laboratory</i>	\$146
CMPE 225 <i>Introduction to ASIC Systems Design</i> ..	\$15

Computer Science

CMPS 170 <i>Game Design Studio I</i>	\$25
CMPS 171 <i>Game Design Studio II</i>	\$65
CMPS 172 <i>Game Design Studio III</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> ..	\$50
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Earth Sciences

EART 5L <i>California Geology Laboratory</i>	\$20
EART 10L <i>Geologic Principles Laboratory</i>	\$30
EART 20L <i>Environmental Geology Laboratory</i> ..	\$20
EART 80B <i>Earthquakes</i>	\$25
EART 100 <i>Vertebrate Paleontology</i>	\$10
EART 101 <i>The Fossil Record</i>	\$40
EART 104 <i>Geologic Hazards</i>	\$10
EART 105 <i>Coastal Geology</i>	\$15
EART 109 <i>Elements of Field Geology</i>	\$100
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>	\$40
EART 125 <i>Geographic Information Systems</i>	\$20
EART 130 <i>Magnas and Volcanoes</i>	\$40
EART 140L <i>Geomorphology Laboratory</i>	\$75

Continued on next page

EART 142 <i>Engr. Geology for Enviro. Scientists</i> .. \$10
EART 146 <i>Groundwater</i> \$10
EART 148 <i>Glaciology</i> \$60
EART 150 <i>Structural Geology</i> \$40
EART 152 <i>Tectonics</i> \$15
EART 188A-B <i>Senior Field Internship</i>
UCSC Students..... \$2,200
Non-UCSC Students \$2,400
UCSC Students 1 Session..... \$1,100
Non-UCSC Students 1 Session \$1,200
EART 205 <i>Introductory Graduate Seminar</i> \$40
EART 263L <i>Planetary Field Course</i> \$20

Education

EDUC 221 <i>Science Teaching and Earning in Elementary Classrooms</i> \$10
EDUC 231 <i>Teaching Science in Secondary Classrooms</i> \$10

Electrical Engineering

EE 101L <i>Intro Electronic Circuits Lab</i> \$43
EE 115 <i>Introduction to MEMS Design</i> \$15
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 & Waves Lab</i> \$40
EE 145L <i>Properties of Materials Lab</i> \$30
EE 157L <i>RF Hardware Design Lab</i> \$25
EE 171L <i>Analog Electronics Lab</i> \$38
EE 215 <i>MEMS Design</i> \$15

Engineering

For information on fees for School of Engineering courses, see

www.soe.ucsc.edu/administration/lab-support/fees.
ENGR 50L *Engineering Mechanics Lab*..... \$23

Environmental Studies

ENVS 107A <i>Natural History Field Quarter</i> ... \$530
ENVS 109B <i>Ecology and Conservation in Practice Supercourse</i> :..... \$1,090

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 & 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/a 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 & 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 Productn</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

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</i> \$100
MUSC 61 <i>Indv Lessons (1/2hr)</i> \$260
MUSC 62 <i>Indv Lessons (1hr)</i> \$415
MUSC 63 <i>Group Instrumental/Vocal</i> \$100
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)</i> \$415
MUSC 162 <i>Adv Lessons (1hr)</i> \$415
MUSC 166 <i>Chamber Singers</i> \$10
MUSC 196B <i>Sr. Recital Prep. (indiv. lessons)</i> . \$415
MUSC 261 <i>Grad. Applied Inst. (1 hr) Major</i> .. \$415

Physical Education

PHYE 5A <i>Aquatics: Swimming Level I</i> \$10
PHYE 5B <i>Aquatics: Swimming Level II</i> \$10
PHYE 5C <i>Aquatics: Swimming Level III</i> \$10
PHYE 5D <i>Aquatics: Swimming Level IV</i> \$10
PHYE 5E <i>Aquatics: Lifeguard Training</i> \$90
PHYE 5F <i>Water Safety Instructor</i> \$55
PHYE 5G <i>Aquatics: Swimming/Conditioning</i> .. \$10
PHYE 5H <i>Aquatics: Competitive Swimming</i> \$10
PHYE 5R <i>Aquatics: Basic Scuba Diving</i> \$85
– <i>Basic Scuba Certification</i> \$65
PHYE 5T <i>Aquatics: Adv Scuba Diving</i> \$105
– <i>Advanced Scuba Certification</i> \$20
PHYE 5U <i>Aquatics: Rescue Scuba Instruction</i> . \$100
– <i>Rescue Scuba Certification</i> \$65
PHYE 5U <i>Aquatics: Dive Master</i> \$165
– <i>Dive Master Certification</i> \$100
PHYE 9B <i>Boating: Beginning Dinghy</i> \$55
PHYE 9C <i>Boating: Intermed Sailing: Dinghy</i> .. \$55
PHYE 9D <i>Boating: Adv Sailing: Dinghy</i> \$55

PHYE 9E <i>Boating: Competitive Sailing</i> \$60
PHYE 9H <i>Boating: Intermediate Rowing</i> \$50
PHYE 9J <i>Boating: Basic & Intermed Rowing</i> ... \$50
PHYE 9K <i>Boating: Ocean Kayaking</i> \$50
PHYE 9S <i>Boating: Intermed Sailing: Keelboat</i> .. \$60
PHYE 9T <i>Boating: Adv Sailing: Keelboat</i> \$60
PHYE 15B <i>Court Sports: Basketball</i> \$10
PHYE 15H <i>Court Sports: Racquetball</i> \$10
PHYE 15N <i>Court Sports: Tennis</i> \$8
PHYE 15T <i>Court Sports: Volleyball</i> \$10
PHYE 20A <i>Dance: Ballet</i> \$22
PHYE 20B <i>Dance: Folk International</i> \$15
PHYE 20C <i>Dance: Jazz</i> \$15
PHYE 20D <i>Dance: Modern</i> \$22
PHYE 25A <i>Fencing: Épée</i> \$15
PHYE 25B <i>Fencing: Foil</i> \$15
PHYE 25C <i>Fencing: Sabre</i> \$15
PHYE 28K <i>Field Sports: Soccer</i> \$10
PHYE 30G <i>Fitness Activity: Phys. Conditioning</i> .. \$10
PHYE 30H <i>Fitness Activity: T'ai Chi Ch'uan</i> .. \$10
PHYE 30J <i>Fitness Activity: Strength Training</i> ... \$10
PHYE 30L <i>Fitness Activity: Yoga Exercises</i> \$10
PHYE 43A <i>Martial Arts: Aikido</i> \$10
PHYE 43G <i>Martial Arts: Tae Kwon Do (Karate)</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> .. \$45
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>Int. Modern Dance Theory/Technique</i> \$21
THEA 131 <i>Adv. Modern Dance Theory/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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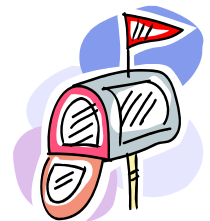
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REGISTRATION PAYMENT INFORMATION

Billing Statements

You can view your account activity on MyUCSC by selecting Account Inquiry. 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 available on August 27, 2009.

The Statement of Account will no longer be mailed. It will be available on SallieMae or the student portal. Students can sign up for SallieMae e-bill and e-check payment by visiting their portal, clicking on Accounts and Billing, then clicking on SallieMae.

Once a student has enrolled, they may invite a parent or other payer to SallieMae. The parent/payer will receive an email with instructions on how to enroll themselves. Students do not need to give up access to their student portal! See http://sbs.ucsc.edu/SallieMae_Student.html or http://sbs.ucsc.edu/SallieMae_Other_Payer.html for more information.

Payment of Fees

Deadline to pay registration fees is Thursday, September 17, for undergraduates and Friday, October 2, 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.

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 have two or more checks returned by the bank in an academic year.

Collection costs

Student charges are due upon demand. Late charges are assessed monthly on delinquent accounts. Check your student portal regularly for new charges and amount due. 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 28 are assessed both the \$50 late registration fee and the \$50 late enrollment fee. October 14 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.

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 2009, 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 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. The brochures describing the benefits and conditions are available at <http://www2.ucsc.edu/healthcenter/billing/insurance.shtml>.

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 2008-09 the USHIP premium was \$348 per quarter for undergraduate students, and the GSHIP premium was \$801 per quarter. Increases are expected for 2009-10. E-mail insure@ucsc.edu for more information.

To opt out of the UCSC-sponsored health insurance plan, you must complete the online waiver on the Student Portal, under Academic News. 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 \$60 per quarter for 2009-10.

For information on how to submit an online waiver, visit the Student Health Insurance Office online at www2.ucsc.edu/healthcenter, call (831) 459-2389, or e-mail 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 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 2009 is October 14.

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

Breakdown of Registration Fees

The fees for the 2009-10 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.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

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*, for financial aid awards. Once you are in the Student Center, look under the Finances section, click on Accept/Decline Awards, then click on Aid Year 2010. You should review each award and click on the awards with hyperlinks to learn about important actions you may need to take to receive those funds. You can accept/decline any or all awards available and "Submit" your changes. 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" on your portal. From the tabs found in the upper right hand corner of the Student Center, you can see your Holds and any outstanding To Dos. 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 the first week of the quarter; otherwise, a check will be mailed to your mailing address during the first week 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 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. For more information, see reg.ucsc.edu/faqs/leave.htm.

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.

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

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.

There is a separate process for requesting a leave for the purpose of Non-UC Study Abroad. For information, see <http://oie.ucsc.edu/sa/other.html>.

Students who are away from UCSC for more than 12 months, or who changed their status while away, are required to submit a new Statement of Legal Residence.

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.

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
Enrollment	<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>
Withdrawal	<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>	
Grades	<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). Note: beginning fall 2001, NP grades earned appear on official transcripts like all other grades.</p>	
Evaluations	<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>	
UCSC Grade Point Average	<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>
UC Grade Point Average	<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>	
Satisfying Requirements	<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>	
Incompletes	<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>	
Repeats	<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>	
Graduation Requirements	<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: Ecology and Evolutionary Biology 190
- Biology: Molecular, Cell and Developmental Biology 189F, 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
- Merrill 10, 85B, 85C
- Physical Education (all courses)
- Psychology 193, 198
- Social Sciences 194B
- Stevenson 10
- Theater Arts 45
- Writing 11A-B-C, 20, 21, 22A-B, 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 re-examination 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	IP = 0.00
A = 4.00	B = 3.00	C = 2.00	W = 0.00	P = 0.00
A- = 3.70	B- = 2.70	D = 1.00	I = 0.00	NP = 0.00

*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
Enrollment	You must request Satisfactory/Unsatisfactory grading by the published deadline.	You must request a letter grade by the published deadline.
Available Grades	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).
Degree Requirements	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.
Incompletes	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.
Repeats	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, and in the *Graduate Student Handbook*, at 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.

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/).

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 Personal Information area on the MyUCSC portal and select privacy settings from the drop-down menu. 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/soclaci.

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.

GENERAL INFORMATION

Advising

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

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 advanced enrolled. Whenever possible, the course-sponsoring agency will notify enrolled students about the cancellation. Check the *Schedule of Classes* (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.

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. Central computing facilities provide universal services such as electronic mail, web, and file services. See 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 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, (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. For standards specific to residential living on campus, please visit 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) 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. 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.

GENERAL INFORMATION

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 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/.

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 <http://its.ucsc.edu/security/policies/>. 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.

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 or call (831) 459-HELP (4357). Please check the web site at 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 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, for more information.

More extensive lab information, including hardware and software specifications and hours of operation, is available at 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 at ic.ucsc.edu/services/learning_management_system/index.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/.

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
- 4) Walk-in support: Kerr Hall Room 54, M-F 8 a.m.-5 p.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 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/.

Related Information

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

GENERAL INFORMATION

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 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, go to the Personal Information area on the MyUCSC portal and select privacy settings from the drop-down menu. 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. 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 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 and click on Ordering UCSC Transcripts. Under Ordering by Credit Card, select the Credentials Inc. icon. This is a secure, encrypted site. There is an additional \$2 service charge to 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.

Rush Service: For an additional \$15, you may request rush service. Rush service ensures your transcript order will be mailed no later than two business days from the day you receive the "Order Complete" e-mail (excluding weekends, holidays, and campus closures).

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, and it will not deliver to post office box addresses or on weekends. The additional charge for Federal Express within the U.S. is \$20 for up to three transcripts going to the same address. The additional charge for Federal Express outside the U.S. is \$30 per transcript (with or without evaluations). Please note that if the appropriate fee has not been received for next-day service, your transcript will be sent via regular mail.

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.

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

SELECTED UNIVERSITY POLICIES & FEDERAL LAWS

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. 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 459-2709 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.

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 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.

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.

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. 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.

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.

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.

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

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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/.

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 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, 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/

Contact Laurie McCann, Campus Ombuds ♦ 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 in the Class Listings section to identify general education courses offered.

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, 5A, 5B, 10A, 10B, 11A, 11B, 13, 14, 30, 40A, 40B, 41, 43, 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, 61D, 61F, 61M, 61R
Greek Literature 100
Latin Literature 100
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, 61B, 61C, 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
Chemistry and Biochemistry 1A, 1B, 1C
Computer Engineering 3, 8, 12
Computer Science 2, 5C, 5J, 5P, 10, 12A, 12B, 13H, 20

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
Community Studies 10, 100B, 100E, 100J, 100K, 100M, 100S, 100T, 100V, 100X
Economics 1, 2
Education 40, 60
Environmental Studies 25
Latin American and Latino Studies 1, 126A, 126B
Legal Studies 10
Politics 1, 3, 4, 7, 15, 17, 20, 25, 43, 60, 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, 80J,
Biomolecular Engineering 80H
Chemistry and Biochemistry 80H
Computer Engineering 80H, 80N, 80U
Computer Science 80B, 80C, 80G, 80K, 80V
Crown 80S
Earth Sciences 80A, 80B, 80C, 80D, 80G
Electrical Engineering 80J
Environmental Toxicology 80E
Linguistics 80G
Microbiology and Environmental Toxicology 80E
Ocean Sciences 80A, 80B
Physics 80A

T3—Social Sciences

Anthropology 80B, 80D, 80G, 80H, 80I, 80J, 80K, 80N, 80P, 80Y
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, 80P, 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 80I, 80K, 80L, 80N, 80P, 80V, 80X
Music 80A, 80F, 80G, 80H, 80I, 80J, 80N, 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, 80D, 80E, 80G, 80H, 80K, 80L, 80M, 80N, 80O, 80P, 80Q, 80S, 80U, 80V, 80W, 80X, 80Z

T5—Humanities and Arts or Social Sciences

American Studies 80E, 80F, 80G
Crown College 80J
Economics 80J
Feminist Studies 80A, 80B, 80F, 80K, 80P, 80Y
Film and Digital Media 80A, 80S
History of Art and Visual Culture 80A, 80D, 80E, 80G, 80H, 80M, 80N, 80S, 80T, 80V, 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 80M
Porter College 80L
Stevenson College 80A, 80B, 80T, 81A, 81B

T6—Natural Sciences or Humanities and Arts

Art 80F
Biomolecular Engineering 80G
Computer Engineering 80E
Music 80C, 80L, 80R
Philosophy 80G, 80S
Physics 80D
Porter College 80K

Continued on next page

GENERAL EDUCATION REQUIREMENTS

T7—Natural Sciences or Social Sciences

Computer Engineering 80A
Computer Science 80J, 80S
Crown College 80F
Electrical Engineering 80S, 80T
Environmental Studies 80A, 80B
Information Systems Management 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, 194G, 194I, 194K, 194L, 194M, 194N, 194P, 194S, 194T, 194U, 194V, 194X, 194Y
Art 150C
Astronomy and Astrophysics 80D
Biochemistry 110
Biology: E&E 141L, 145L, 150L, 151B, 158L, 159A, 161L, 176B, 183L
Biology: MCD 100L, 105L, 105M, 109L, 110L, 115L, 119L, 186L
Chemistry and Biochemistry 122
Community Studies 160, 194
Computer Engineering 185
Computer Science 166B
Crown College 123
Earth Sciences 195
Economics 106, 107, 108, 128, 142, 165, 166B, 183, 184, 188, 195

Education 164, 180A
Environmental Studies 100L (concurrent enrollment in 100 required), 104A, 109B, 156, 157, 172
Feminist Studies 117, 194I, 194N, 195
Film and Digital Media 120, 150, 196B
History 190A, 190B, 190C, 190D, 190E, 190F, 190H, 190I, 190K, 190L, 190M, 190N, 190O, 190P, 190R, 190S, 190T, 190U, 190V, 190W, 190X, 190Y, 194A, 194B, 194E, 194G, 194H, 194M, 194N, 194R, 194S, 194U, 194W, 194Y, 195B, 196A, 196B, 196C, 196E, 196G, 196I, 196J, 196K, 196N, 196O, 196P, 196R, 196S, 196T, 196U, 196W, 196Y
History of Art and Visual Culture 100A, 187A
Information Systems Management 158
Kresge College 80T
Latin American and Latino Studies 194H, 194P, 195A
Legal Studies 128, 183, 196
Linguistics 101, 113, 114, 197
Literature 1, 101
Microbiology and Environmental Toxicology 151
Oakes College 112
Philosophy 120, 127, 190L, 190M, 190S, 190Y
Physics 195B
Porter College 80W
Psychology 110, 119A, 119C, 119G, 119H, 119M, 125
Science Communication 160
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 2, 3, 5, 7, 10, 11A, 11B, 80A, 131
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, 80H, 80M, 80S, 80T, 80V, 80X, 100A, 104A, 105E, 105J, 105P, 105R, 106A, 106I, 106X, 107A, 107B, 110A, 110B, 114, 115, 124, 126, 131, 136, 137, 138, 139, 140, 140A, 142, 149A, 150A, 151A, 153, 154A, 154D, 155, 156, 159B, 159D, 160, 163A, 163B, 168, 169, 172, 174C, 175, 177, 178A, 179, 180, 181, 182, 183, 185B, 185C, 185D, 186B, 187A, 189D, 189V, 189Y, 190A, 190B, 190C, 190D, 190I, 190M, 190O, 190P, 190Q, 190R, 190S, 190T, 190U, 190Y, 191A, 191B, 191C, 191D, 191F, 191H, 191P, 191X, 191Z
Latin American and Latino Studies 81A, 81B, 81C, 161P, 171
Literature/Creative Writing 10, 52, 53, 170, 180, 183
Music 1A, 5A, 5B, 5C, 6, 10, 11A, 11B, 11C, 11D, 51, 54, 75, 80A, 80C, 80F, 80G, 80H, 80I, 80J, 80L, 80N, 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, 15, 17, 18, 18C, 19, 20, 21A, 22, 23, 30, 31C, 31P, 32, 33, 35, 36, 37, 40, 50, 52, 61, 61B, 61C, 80A, 80B, 80D, 80E, 80G, 80H, 80K, 80L, 80M, 80N, 80O, 80P, 80Q, 80S, 80U, 80V, 80W, 80X, 80Z, 100A, 100B, 100C, 100G, 100H, 100I, 100L, 100M, 100W, 104, 105, 106, 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, 152, 155, 157, 159, 160, 161A, 161C, 161D, 161M, 161P, 161Q, 161R, 161S, 161T, 161U, 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, 130H, 130I, 130L, 130M, 130N, 130T
Community Studies 20, 80A, 80B, 80H, 100E, 100J, 100P, 114, 132, 152
Computer Science 80S

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GENERAL EDUCATION REQUIREMENTS

Economics 120, 128

Education 60, 128, 141, 164, 181

Feminist Studies 80F, 80P, 80Y, 102, 110, 115, 117, 120, 123, 124, 132, 139, 145, 151A, 194F, 194M

Film and Digital Media 132C, 165B, 165D, 185E
Hebrew 106

History 5A, 11A, 11B, 14, 30, 40A, 40B, 41, 43, 45, 74, 74A, 75, 80H, 80W, 80Y, 101A, 101B, 106A, 106B, 106C, 109A, 111, 121A, 121B, 123B, 126, 127, 128, 130, 131, 132, 134A, 134B, 137A, 137B, 137C, 140C, 140D, 140F, 145, 147A, 147B, 148, 150C, 155, 185A, 185B, 185D, 185E, 185F, 190A, 190B, 190C, 190D, 190E, 190L, 190N, 190O, 190R, 194G, 194H, 194N, 194U, 194W, 194Y, 196N

History of Art and Visual Culture 10E, 80G, 80M, 80T, 105E, 105P, 106A, 107A, 107B, 139, 142, 151A, 155, 156, 160, 161, 172, 182, 185B, 185C, 185D, 187A, 189D, 190B, 190C, 190O, 190U, 191A, 191C, 191E, 191P

History of Consciousness 118

Languages 80F

Latin American and Latino Studies 1, 10, 80A, 80B, 80C, 80D, 80E, 80F, 80G, 80H, 80I, 80P, 80Q, 80S, 80T, 80X, 100A, 100B, 101, 110B, 111, 120, 122, 123A, 123B, 126A, 126B, 127, 128, 129, 140, 141, 142A, 142B, 143, 144, 145, 146, 147, 148, 152, 160, 161P, 162, 163, 164, 166, 167, 168, 169, 170, 173, 175, 176, 178, 180, 194B, 194C, 194D, 194E, 194F, 194G, 194H, 194J, 194K, 194L, 194M, 194N, 194P, 194R, 195A

Legal Studies 127, 128, 135, 136

Literature 61R, 80L, 80N, 80P, 80X

English-Language Literatures 150C, 150G, 155D, 160E

French Literature 134

Modern Literary Studies 125L, 144A, 144D, 144G

Spanish Literature 60, 102B, 130D, 130E, 130F, 134C, 134M, 134N, 135D

World Literature and Cultural Studies 109, 118, 190A, 190B

Merrill College 80A, 80B, 80X, 151

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

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

Philosophy 80E

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

Psychology 110, 119B, 140B, 142, 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

Writing 128

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Fall 2009 Course Descriptions

The following course descriptions are for fall quarter 2009. Descriptions for individual studies courses are not included in these listings. Please contact the course sponsoring agencies for additional information.

College Eight

20D. College Students' Lives (2 credits).

Students understand their peers and themselves better through an exploration of issues that affect the daily life of college students. Topics include campus/student cultures, the academic system, and other critical issues. Overview of campus resources also provided. Enrollment restricted to first-year and sophomore College Eight members.

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

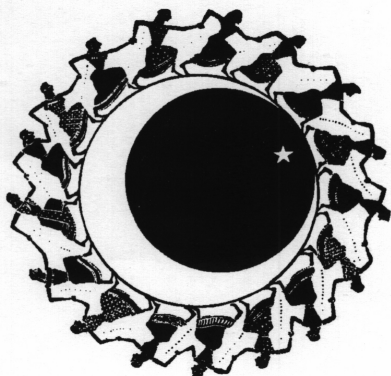
80A. Introduction to University Discourse: International and Global Issues.

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.)

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PUBLICATIONS UPDATE

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.)

91. Global Issues Colloquium (1 credit).

Weekly colloquium on global issues with different topical focus each quarter. Presentations by UCSC faculty and invited speakers. Students must attend class, read an assigned article, and write a one-page synopsis. Co-sponsored by College Nine and The Center for Global, International, and Regional Studies. Enrollment limited to 50. May be repeated for credit.

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

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 concep-

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Law School Fair

October • Date/Time/Location: TBA

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Tuesday, October 20, 2009 • 11:00 A.M. to 3:00 P.M. • Location: TBA

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Tuesday, November 3, 2009 • 11:00 A.M. to 3:00 P.M. • Location: TBA

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tions of justice, historic and contemporary, and considers 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.)

Crown College

80A. Introduction to University Discourse: Ethical Issues in Emerging Technology: Participatory Evolution from Human to Post-Human.

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/Inquiry: Ethical Issues in Emerging Technology: Participatory Evolution from Human to Post-Human.

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.)

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.

65A. Power and Representations: Food Systems (2 credits).

Explores the relationship between our individual choices as "eaters" and "food citizens," and how those choices affect the collective "food system" on many scales—locally, statewide, nationally, and internationally. Concurrent enrollment in course 80A or 80B is required. Enrollment limited to 20.

65B. Power and Representation: Photography (2 credits).

Focuses on creating a final project individually, or in

collaboration with others, that engages issues of power and representation through the medium of photography. Concurrent enrollment in course 80A or 80B is required. Enrollment limited to 20.

65C. Power and Representation: Creative Writing (2 credits).

For students who wish to supplement their core experience with creative writing. Students do in-class and out-of-class writing assignments; read and discuss texts; and work to develop their final project. Concurrent enrollment in course 80A or 80B is required. Enrollment limited to 20.

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.

15. Bridge Academic Success Class (2 credits).

Assists first-year Educational Opportunity Program (EOP) Bridge students to successfully transition to the university and to maximize their academic success. Students identify their academic strengths and challenges, and use academic tools and strategies to become effective learners. Enrollment restricted to Bridge students only.

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.)

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

22A. Day of the Dead (2 credits).

Day of the Dead: Creating an Exhibition—an exploration of art created to celebrate death in Mexican, Chicano, and American culture. Culminates in the creation of a Day of the Dead ceremony and community altar including students' individual art pieces. Enrollment limited to 25. (General Education Code(s): A.)

33. Seminar in Arts (2 credits).

Theoretical and historical aspects of the arts from one culture or world area are explored through seminar discussion, library research, and film/video presentations. Enrollment limited to 20. (General Education Code(s): A.)

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.)

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. May be repeated for credit. (General Education Code(s): T4-Humanities and Arts, E.)

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.)

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. Surveys American popular music, from the beginnings of mass media to the late 20th century and beyond. (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.

114A. Politics and American Culture.

Examination of major conceptions of citizenship in the context of American society and culture, with particular attention both to the sources of these conceptions in Western political thought and to their elaboration and testing in specific historical situations. Enrollment restricted to juniors and seniors.

125A. Aspects of African American Culture.

A seminar examining the dominant and defining characteristics of African American culture, covering such areas as folklore, religion, politics, music, verbal arts, and social ritual, as well as more "everyday" manifestations of the culture. May be repeated for credit. (General Education Code(s): E.)

188. 9/11.

Considers the events of September 11, 2001, and the subsequent changes in U.S. society and in the country's role across the globe. Focuses on three arenas where these transformations have occurred: politics, culture, popular culture, and racial and ethnic relations.

190C. Debating American Culture.

Examines major debates about national culture in the U.S., considered in the context of ethnic, class, gendered, and other subnational and transnational cultural formations and of relevant social, political, and cultural theory. Enrollment restricted to senior American studies majors. Enrollment limited to 20.

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.)

80G. Barrio Popular Culture.

Introduces students to a broad sampling of verbal and nonverbal forms of Mexican folklore. Concentrates on experiencing these forms through texts, film, and if possible, performances. Attention to how these forms have been used by scholars to comment on Mexican culture is an underlying theme. Knowledge of Spanish is useful but not required. Will be offered in the 2009–2010 academic year. (General Education Code(s): T3-Social Sciences, E.)

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 Folklorico Dance (2 credits).

Provides instruction in the aesthetic, cultural, and historical dimensions of Mexican folklorico 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.)

102A. Human Skeletal Biology.

Presents basic human osteology allowing students to identify skeletal material by element. Emphasizes the dynamic nature of bone by integrating anatomy with a discussion of bone physiology within the context of the human life cycle. Prerequisite(s): course 1. Enrollment limited to 16.

112. Life Cycles.

Examines the human life cycle using an evolutionary framework. Examines key aspects of the human life stages using findings and concepts from developmental biology, physiology, nutrition, evolutionary ecology, and life-history theory. Prerequisite(s): course 1.

120. Culture in Film.

Introduces current and historical issues in visual anthropology, using film as a medium with which to represent culture. Raises questions about visual representation and advocacy in the context of global inequalities. Prerequisite(s): course 2 or 80J or Film 20A or 20B, or History of Art and Visual Culture 10D, 10E, 10F or 10G.

120L. Culture in Film Laboratory (2 credits).

This lab in video production is to train students in Culture in Film. The video lab, through lectures, demonstrations, hands-on instruction, and review of students' work will enable students enrolled in Culture in Film to learn the fundamentals of film/video pre-production, production, and post-production skills. Portfolio review prior to enrollment and concurrent enrollment in course 120 required. Enrollment limited to 15.

127. Ethnographies of Capitalism.

Challenges approaches to capitalism that treat it as socioeconomic relations separable from "culture." Readings include ethnographies demonstrating the inextricability of cultural meanings from capitalist practices. Topics include capitalism's relationship to colonialism, nationalism, so-

cialism, gender, and the commodification of aesthetics.

130B. Brazil.

Examines Brazilian culture and its link to interpersonal relationships, religion, politics, and psychological experience. Will be offered in the 2009–2010 academic year. (General Education Code(s): E.)

130F. African Diasporas in the Americas.

Focuses on African diasporas of the Caribbean, United States, and Latin America. Themes include: theorizing diaspora, historical formations, slavery, analytical approaches to cultures of the African diaspora, religion, music, comparative identity formation and racism, gender dynamics, social movements, and transnationalism. (General Education Code(s): E.)

133. Narratives of the Popular.

Addresses the increasing importance of popular culture as the terrain upon which to address issues of culture and power. Emphasizes an ethnographic approach to popular culture as sociocultural phenomena. Students learn about a variety of activities including television and film viewing, music, fashion, photography, postcards, comic books, and urban spatial relations and architecture. Offered in alternate academic years.

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.

138. Political Anthropology.

The ideas, in selected non-Western societies, about the nature of power, order, social cohesion, and the political organization of these societies. (Also offered as Legal Studies 138. Students cannot receive credit for both courses.) Offered in alternate academic years.

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.

155. Cultural Encounters.

Explores cross-cultural encounters through a combination of theoretical and ethnographic texts. Various faculty members teach on a rotating basis. The focus of each year's course(s) varies according to the instructor and will be announced by the department. Prerequisite(s): course 2 or permission of instructor. May be repeated for credit.

159. Race and Anthropology.

Examines concept of race in anthropology. Begins with histories of race in anthropology; turns to contemporary analysis of racism, identity formation, and diaspora; and concludes with current debates on the validity of "race" as an object of analysis.

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.)

172. Archaeological Research Design.

Introduces theories and methods for recovering and analyzing archaeological data. Critically explores the nature

of archaeological evidence and how archaeologists know what they know. Strongly recommended for those contemplating further studies in archaeology. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, course 3, and one upper-division archaeology course. Strongly recommended for those contemplating further studies in archaeology. Enrollment limited to 25. Offered in alternate academic years. (General Education Code(s): W.)

176A. North American Archaeology.

Development of Native cultures in North America. Topics include peopling of the New World, early foragers, spread of agriculture and complex societies in the Southwest and Eastern Woodlands, and review of cultural developments in the West and Far North. Prerequisite(s): course 3 or consent of instructor.

180. Ceramic Analysis in Archaeology.

Focuses on theories and techniques used by archaeologists to bridge the gap between the recovery of ceramic materials and their interpretation within cultural contexts. Topics include the origins of pottery, production methods, classification and typology, seriation, functional analysis, materials analysis and description, organization of production, trade, and the analysis of style. Students are billed a materials fee. Students cannot receive credit for this course and course 280. Prerequisite(s): course 3. Concurrent enrollment in course 180L required. Enrollment restricted to anthropology majors.

180L. Ceramic Analysis Laboratory (2 credits).

Practicum in ceramic materials analysis and description. Students perform material experiments in materials selection and processing, hand-building techniques, and open-pit firing. Demonstrations of standard techniques of attribute analysis and the mineralogical and chemical characterization of ceramic materials are presented. Students cannot receive credit for this course and course 280L. Prerequisite(s): course 3. Concurrent enrollment in course 180 required. Enrollment restricted to anthropology majors. Enrollment limited to 16.

194G. Politics and Secularism.

Examines secularism as political doctrine and practice of government. Topics include: transformation of religion by secularization; forms of inclusion/exclusion enacted by secularism; relationship between secularism and colonial rule. Case studies drawn from Europe, South Asia, United States, and the Middle East. Prerequisite(s): courses 1, 2, and 3, and satisfaction of the Entry Level Writing and Composition requirements. Enrollment limited to 20. (General Education Code(s): W.)

194X. Women in Politics: A Third World Perspective.

Focuses cross-culturally on the status of women in the Third World and their formal and informal participation in politics. Also discussed are organized efforts, through participation in both national and autonomous movements, for women's rights. Prerequisite(s): satisfaction of the 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.)

194Y. Archaeologies of Space and Landscape.

Examines contemporary archaeological perspectives on space and landscape. Focuses on how archaeology can contribute to an appreciation of the economic, cultural, and political factors that shape human perception, use, and construction of the physical world. Prerequisite(s): courses 1, 2, 3, and satisfaction of the Entry Level Writing

and Composition requirements. Enrollment restricted to senior anthropology majors. Enrollment limited to 20. (General Education Code(s): W.)

200A. Core Graduate Course (10 credits).

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.

280. Advanced Ceramic Analysis.

Advanced graduate seminar that focuses on techniques and theories used to bridge the gap between the recovery of ceramic remains from archaeological contexts and their interpretation with respect to various anthropological issues and problems. Students cannot receive credit for this course and course 180. Enrollment restricted to graduate students. Concurrent enrollment in Anthropology 280L required. Enrollment limited to 5.

280L. Advanced Ceramic Analysis Laboratory (2 credits).

Emphasizes advanced techniques of ceramic analysis, including materials selection and processing, hand-building, and open-pit firings. Standard techniques for describing and measuring formal and technological attributes of pottery also presented. Students cannot receive credit for this course and course 180L. Enrollment restricted to graduate students. Concurrent enrollment in Anthropology 280 required. Enrollment limited to 5.

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.

Applied Math and Statistics

2. Pre-Statistics.

Reviews and introduces mathematical methods useful in the elementary study of statistics, including logic, real numbers, inequalities, linear and quadratic equations, functions, graphs, exponential and logarithmic functions, and summation notation. Prerequisite(s): Mathematics 2 or placement exam score of 20 or higher. (General Education Code(s): Q.)

3. Precalculus for Science and Engineering.

Includes real numbers, inequalities, linear and quadratic equations, functions, trigonometry, exponential and logarithmic functions, inverse trigonometry, and analytic geom-

etry, 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 2 or 3 or 11A or Mathematics 3 or 11A or 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 2 or 3 or 11A or Mathematics 3 or 11A or 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, bases and transformations, matrix algebra, solutions of linear systems, inverses and determinants, eigenvalues and eigenvectors, and geometric transformations. Students cannot receive credit for this course and for courses 10A or 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, bases and transformations, matrix algebra, solutions of linear systems, inverses and determinants. Students cannot receive credit for this course and courses 10 or 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 I.

Introduction to mathematical tools and reasoning, with applications to economics. Topics are drawn from differential calculus in one variable and include limits, continuity, differentiation, elasticity, Taylor polynomials, and 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 II.

Mathematical tools and reasoning, with applications to economics. Topics are drawn from multivariable differential calculus and single variable integral calculus, and include partial derivatives, linear and quadratic approximation, optimization with and without constraints, Lagrange multipliers, definite and indefinite integrals, and elementary differential equations. (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.)

80A. Gambling and Gaming.

Games of chance and strategy motivated early developments in probability, statistics, and decision theory. Course uses popular games to introduce students to these concepts, which underpin recent scientific developments in economics, genetics, ecology, and physics. (General Education Code(s): Q.)

107. Introduction to Fluid Dynamics.

Covers fundamental topics in fluid dynamics: Euler and Lagrange descriptions of continuum dynamics; conservation laws for inviscid and viscous flows; potential flows; exact solutions of the Navier-Stokes equation; boundary layer theory; gravity waves. Students cannot receive credit for this course and Applied Mathematics and Statistics 217. (Also offered as Physics 107. Students cannot receive credit for both courses.) Prerequisite(s): course 27 or 20 or 20A, or Physics 116A and 116B and 116C, or equivalent.

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.

200. Research and Teaching in AMS (3 credits).

Basic teaching techniques for teaching assistants, including responsibilities and rights; resource materials; computer skills; leading discussions or lab sessions; presentation techniques; maintaining class records; and grading. Examines research and professional training, including use of library; technical writing; giving talks in seminars and conferences; and ethical issues in science and engineering. Enrollment restricted to graduate students.

205A. Mathematical Statistics.

Graduate introduction to topics in probability and statistical inference. 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.

217. Introduction to Fluid Dynamics.

Covers fundamental topics in fluid dynamics; Euler and Lagrange descriptions of continuum dynamics; conservation laws for inviscid and viscous flows; potential flows; exact solutions of the Navier-Stokes equation. Boundary layer theory; gravity waves. Students cannot receive credit for this course and course 107. Enrollment restricted to graduate students.

223. Time Series Analysis.

Graduate level introductory course on time series data and models in the time and frequency domains: descriptive time series methods; the periodogram; basic theory of stationary processes; linear filters; spectral analysis; time series analysis for repeated measurements; ARIMA models; introduction to Bayesian spectral analysis; Bayesian learning, forecasting, and smoothing; introduction to Bayesian Dynamic Linear Models (DLMs); DLM mathematical structure; DLMs for trends and seasonal patterns; and autoregression and time series regression models. Prerequisite: 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.

280C. Seminar in Geophysical and Astrophysical Fluid Dynamics (2 credits).

Weekly seminar/discussion group on geophysical and astrophysical fluid dynamics covering both analytical and computational approaches. Participants present research progress and findings in semiformal discussions. Students must present their own research on a regular basis. Enrollment restricted to graduate students. May be repeated for credit.

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 22. (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 22. (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 22. (General Education Code(s): A.)

24B. Introduction to Painting: Acrylic.

Introduction to acrylic painting and to painting process. Assignments develop understanding of this medium's potential 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 this field. 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 22. (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 22. (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.)

40. Sculpture I.

Introduction to a range of concepts and forms used to make contemporary sculpture. Assignments facilitate becoming familiar with sculptural techniques and materials to enable students to visually manifest their sculptural ideas. Combines lectures and demonstrations with work time in class. Students are billed a materials fee. Enrollment restricted to pre-art and history of art and visual culture majors. Enrollment limited to 22. (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 23. (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. Students are billed a materials fee. 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 234. (General Education Code(s): T4-Humanities and Arts, 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.

105. Special Topics in Drawing.

Special topics in drawing as announced. Students are billed a materials fee. Prerequisite(s): courses 20 and 101.

Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit.

107. Mixed Media Works on Paper.

This course stresses alternative drawing processes, techniques, and materials. Intended for the intermediate or advanced 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.)

110. Special Topics in Intermedia.

Exploring interactive strategies for making art. Projects experiment with combining forms and mediums to engage an audience. Students are billed a materials fee. Prerequisite(s): course 23 or 29 or 39 or 40. Enrollment restricted to art majors. Enrollment limited to 20. May be repeated for credit.

114. Lithography I.

Introduction to drawing, processing, and printing of lithographs from stone. Emphasis on discovery of tonal, textural, and expressive potential from the surface of the stone, while establishing individual directions in imagery. Condensed history of the medium, technical theory, and critique in lecture and demonstrations. Students are billed a materials fee. Prerequisite(s): course 20, 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, color xerox, computer-generated imagery, or mixed media. Students are billed for a materials fee. 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.)

140. Metal Sculpture.

Focus on teaching intermediate to advanced students the processes and techniques of direct metal fabrication for contemporary sculpture. Explores a range of welding, cutting, and forming techniques and processes through demonstrations, slide lectures, field trips, and studio time. Demonstrations, slide lectures, and critical discussion of work help develop technical and conceptual skills. Students are billed a materials fee. Prerequisite(s): one of the following courses: 22, 23, 28, 29, 39, 40, or 41. Enrollment restricted to art majors. Enrollment limited to 16. May be repeated for credit.

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 non-science majors interested in a one-quarter survey of classical and modern astronomy. (General Education Code(s): IN, Q.)

15. Dead Stars and Black Holes.

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. (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.

112. Physics of Stars.

The leading observational facts about stars as interpreted by current theories of stellar structure and evolution. Spectroscopy, abundances of the elements, nucleosynthesis, stellar atmospheres, stellar populations. Final stages of evolution, including white dwarfs, neutron stars, supernovae. 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.

204. Astrophysical Flows.

Explores how physical conditions in astrophysical objects can be diagnosed from their spectra. Discussion topics include how energy flows determine the thermal state of radiating objects and how the physics of radiative transfer can explain the emergent spectral characteristics of stars, accretion disks, Lyman-alpha clouds, and microwave background. (Formerly 204A Physics of Astrophysics I and 204B Physics of Astrophysics II.) Enrollment restricted to graduate students. Offered in alternate academic years.

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.

240A. Galactic and Extragalactic Stellar Systems.

Structure and evolutionary histories of nearby galaxies. Stellar populations, galactic dynamics, dark matter, galactic structure and mass distributions. Peculiar galaxies and starbursting galaxies. Structure and content of the Milky Way. Evolution of density perturbations in the early universe. Hierarchical clustering model for galaxy formation and evolution. Offered in alternate academic years.

257. Modern Astronomical Techniques.

Covers physical, mathematical, and practical methods of modern astronomical observations at all wavelengths at a level that prepares students to comprehend published data and to plan their own observations. Topics include: noise sources and astrophysical backgrounds; coordinate systems; filter systems; the physical basis of coherent and incoherent photon detectors; astronomical optics and aberrations; design and use of imaging and spectroscopic instruments; antenna theory; aperture synthesis and image reconstruction techniques; and further topics at the discretion of the instructor. (Formerly Modern Observational Techniques) 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 and 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): BIOL 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. Completion of biology placement exam recommended, <http://biosci.ucsc.edu/bioplacex.html>. (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. Apply online at <http://www2.ucsc.edu/sci-diving>. 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): BIOL 20A, BIOE 20B, BIOE 20C, and BIOL 105.

112. Ornithology.

Introduction to the evolution, ecology, behavior, and natural history of birds, using exemplary case histories to illustrate key concepts in evolution, ecology, and behavior. (Formerly Biology 144.) Prerequisite(s): BIOE 107, BIOE 109, BIOE 140, ENVS 24 or ENVS 105. Concurrent enrollment in BIOE 112L is required. Enrollment limited to 20.

112L. Ornithology Field Studies (2 credits).

Field trips introduce students to field identification skills and field investigation of census, foraging behavior, migration, social behavior, and communication. Examination of specimens in the laboratory will be used to highlight the diversity and taxonomy of birds. Students are billed a materials fee. Some field trips may require students to provide their own transportation. (Formerly Biology 144L.) Prerequisite(s): BIOE 107, BIOE 109, BIOE 140, or ENVS 24 or 105. Concurrent enrollment in BIOE 112 is required. Enrollment limited to 20. Offered in alternate academic years.

127. Ichthyology.

An introduction to the biology of jawless, cartilaginous, and bony fishes—their classification, evolution, form, physiology, and ecology. (Formerly Biology 137.) Prerequisite(s): BIOL 20A, BIOE 20B, and BIOE 20C. BIOE 127L must be taken concurrently. Offered in alternate academic years.

127L. Ichthyology Laboratory (2 credits).

One laboratory session a week and several field trips to study the biology of fish. Students are billed a materials fee. (Formerly Biology 137L.) Prerequisite(s): BIOL 20A, BIOE 20B, and BIOE 20C. BIOE 127 must be taken concurrently. 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): BIOL 20A, BIOE 20B, and BIOE 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 course 245. (Formerly Biology 169.) Prerequisite(s): BIOL 20A, BIOE 20B, and BIOE 20C; or ENVS 24. BIOE 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 course 245L. Students are billed a materials fee. (Formerly Biology 169L.) Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements; BIOL 20A, BIOE 20B, and BIOE 20C; or ENVS 24. Concurrent enrollment in BIOE 145 is required. BIOE 107 is recommended. Enrollment limited to 30. (General Education Code(s): W.)

155. Freshwater Ecology.

Provides an overview of the physical, chemical, and biological processes that characterize inland waters such as lakes, streams, rivers, and wetlands. Also addresses relationships between humans and freshwater, and discusses these challenges in conservation. Prerequisite(s): BIOL 20A, BIOE 20B, and BIOE 20C.

161. Kelp Forest Ecology.

Study of organization of kelp forests as models for examining biological communities. The physical and biotic factors responsible for community organization of kelp forests are explored using original literature and data collected in BIOE 161L. Class meets one full morning each week. Prerequisite(s): by interview only; BIOL 20A, BIOE 20B, and BIOE 20C are required. Students must pass the University Research Diving Certification (contact the diving safety officer, Institute of Marine Sciences, for further information). Enrollment restricted to seniors. BIOE 161L must be taken concurrently; BIOE 107, 120/L, 122/L are recommended. (Formerly Biology 161.) Enrollment limited to 24. Offered in alternate academic years.

161L. Kelp Forest Ecology Laboratory.

Fieldwork using SCUBA to quantitatively and qualitatively examine the abundance and distribution of organisms in kelp forests, with additional laboratory work. Culminates with a directed individual research project. Class meets one full morning each week. Students are billed a materials fee. Admission by interview. Prerequisite(s): BIOL 20A, BIOE 20B, and BIOE 20C; satisfaction of the Entry Level Writing and Composition requirements; BIOE 161 must be taken concurrently; BIOE 107, 120/L, 122/L are recommended. Students must pass the University Research Diving Certification (contact the Diving Safety Officer, Institute of Marine Sciences, for further information). (Formerly Biology 161L.) Enrollment limited to 24. Offered in alternate academic years. (General Education Code(s): W.)

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): BIOL 20A, BIOE 20B, and BIOE 20C; OCEA 101 recommended.

176A. 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. (Also offered as Computer Science 166A. Students cannot receive credit for both courses.) Prerequisite(s): Applied Math and Statistics 5 or 7 or Economics 113; and Economics 11B, Applied Math and Statistics 11B, or Mathematics 11B or 19B. Enrollment restricted to juniors and seniors. Enrollment limited to 100.

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.

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): BIOE 107 or ENV 24 or permission of instructor. Concurrent enrollment in BIOE 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 BIOE 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.

281I. Topics in Plant Population and Disease Ecology.

Selected topics in population biology and disease ecology. Students present results from their own research and discuss recent advances from the literature. Enrollment restricted to graduate students; qualified undergraduates may enroll by permission of instructor. Enrollment limited to 18. 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.

281K. Topics in Plant Evolution.

Intensive seminar on selected topics in plant evolution. Students present results from their own research and discuss recent advances from the literature. Enrollment restricted to graduate students; qualified undergraduates may enroll by permission of instructor. Enrollment limited to 18. 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. Topics in Aquatic 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; formerly Freshwater Ecology.) 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.

281O. Topics in Plant-Water Relations.

Intensive seminar focusing on fundamental and evolutionary concepts in plant-water relations. Students present results from their own research and discuss recent advances from the literature. Enrollment restricted to graduate students; qualified undergraduates may enroll by permission of instructor. Enrollment limited to 18. 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 of 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.

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.

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): CHEM 1B. (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): BIOL 20A and previous or concurrent enrollment in BIOE 20B. Enrollment restricted to health sciences and biochemistry and molecular biology majors; other majors by permission. Enrollment limited to 20.

21L. Environmental Phage Genomics Laboratory (2 credits).

Introduction to hypothesis-driven laboratory research. Students isolate and characterize both the structure and genome of a unique bacteriophage. Students gain experience in basic sterile technique, solution, manipulation of DNA, and bioinformatic analysis of a new genome. Enrollment restricted to first-year students and sophomores. Enrollment by online application and permission of instructor. Enrollment limited to 14. May be repeated for credit.

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.)

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): BIOL 20A and BIOE 20B; and CHEM 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): previous or concurrent enrollment in BIOL 100; satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to biological sciences and affiliated majors; biology minors; non-majors by instructor per-

mission. Enrollment limited to 20. (General Education Code(s): W.)

105. Genetics.

Mendelian and molecular genetics; mechanisms of heredity, mutation, recombination, and gene action. Prerequisite(s): BIOL 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): BIOL 105; BIOL 100 or BIOC 100A recommended; satisfaction of Entry Level Writing and Composition Requirements. Enrollment restricted to biological sciences and affiliated majors; biology minors; non-majors by instructor permission. (General Education Code(s): W.)

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): BIOL 100 or BIOC 100A.

119. Microbiology.

Cell and molecular biology of bacteria and their viruses, including applications in medicine, public health, agriculture, and biotechnology. (Also offered as Microbiology and Environmental Toxicology 119. Students cannot receive credit for both courses.)

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. (Also offered as Microbiology and Environmental Toxicology 119L. Students cannot receive credit for both courses.) (General Education Code(s): W.)

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): BIOL 100. Concurrent enrollment in BIOL 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): BIOL 20A, BIOE 20B, BIOL 100, and BIOL 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; BIOL 20A, BIOE 20B, BIOL100, and BIOL 110. Previous or concurrent enrollment in BIOL130 is required. Enrollment restricted to biological sciences

and affiliated majors; biology minors; other majors by instructor permission.

181. Computational Biology Tools.

Hands-on laboratory geared to teach basic tools used in computational biology (motif searching, primer selection, sequence comparison, multiple sequence alignment, gene finders, phylogenetics analysis, X-ray crystallography software). Web- and Unix-based tools/databases are used. Open to all science students; no prior Unix experience required. (Also offered as Biomolecular Engineering 110. Students cannot receive credit for both courses.) Prerequisite(s): course 100, 105, or Biochemistry 100A or declared bioinformatics majors. Enrollment limited to 25.

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): BIOL 20A and BIOE 20B; at least one of BIOL 100, BIOL 105, or BIOC 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): satisfaction of the Entry-Level Writing and Composition requirements; courses BIOL 20A and BIOE 20B; at least one of BIOL 100, BIOL 105, or BIOC 100A; and permission of instructor. (General Education Code(s): W)

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 BIOL 116L or BIOL 287L. Students are billed a materials fee. Prerequisite(s): BIOL 20A, BIOE 20B, BIOE 20C, BIOL 100, and BIOL 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): BIOL 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 BIOL 130L.)

189F. Health Sciences Internship (2 credits).

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 six hours per week at their placement, keep a reflective journal, and submit a final paper. Prerequisite(s): BIOL 20L; students interview with health sciences internship coordinator. Applications due one quarter in advance to the Health Sciences Internship Office. May be repeated for credit.

200A. Critical Analysis of Genetics and Molecular Biology.

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. Enrollment by permission of instructor. (Formerly Advanced Genetics) Enrollment restricted to graduate students.

200B. Advanced Molecular Biology.

An in-depth coverage of the structure, function, and synthesis of DNA, RNA, and proteins. Discussion of the roles of macromolecules in the regulation of information in the cell. Prerequisite(s): BIOL 200A. Enrollment restricted to graduate students.

206. Introduction to Stem Cell Biology.

Fundamental issues and experimental approaches of stem cell biology research. Course divides into three sections: basic principles, experimental approaches, and emerging areas of research. Topics covered include stem cell self-renewal and differentiation, the microenvironment, epigenetics, cell cycle regulation, as well as how basic research translates to medical therapeutics. Enrollment restricted to graduate students.

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.

280E. Meiotic Chromosome Dynamics (2 credits).

Intensive course on the molecular mechanisms underlying homolog pairing, synapses, and recombination; and how they are regulated, coordinated, and monitored to ensure accurate meiotic chromosome segregation. Enrollment restricted to graduate students; undergraduates may enroll with permission of instructor. 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 Microbiol & Environ 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. Enrollment restricted to graduate students; 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.

280W. Membrane Proteins (2 credits).

Seminar on recent research on membrane proteins, with an emphasis on ion-pumping ATPase. Enrollment restricted to graduate students; qualified undergraduates may enroll with permission of instructor. Enrollment limited to 20. 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

5. Introduction to Biotechnology.

Introduces the tools and applications of biotechnology in the fields of medicine, agriculture, the environment, and industry. (General Education Code(s): IN.)

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.)

110. Computational Biology Tools.

Hands-on laboratory geared to teach basic tools used in computational biology (motif searching, primer selection, sequence comparison, multiple sequence alignment, gene finders, phylogenetics analysis, X-ray crystallography software). Web- and Unix-based tools/databases are used. Open to all science students; no prior Unix experience required. (Also offered as Biology: Molecular Cell & Dev 181. Students cannot receive credit for both courses.) Prerequisite(s): Biology 100, 105, or Biochemistry 100A or declared Bioinformatics majors. Enrollment limited to 25.

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

Electrical Engineering 123A. Students cannot receive credit for both courses.)

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, fabless 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.

207. Biomolecular Recognition.

Course is the core biomolecular-engineering emphasis graduate course. Focuses on the molecular mechanism enabling the flow of information within and between cells in living systems, and its application to engineering new tools for high-throughput molecular-biology research, improving biomedical diagnostics, and aiding treatment of human disease. Prerequisite(s): Equivalent of one full year of undergraduate biochemistry. Enrollment restricted to graduate students.

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. 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.

281F. Blood Cell Development (2 credits).

Weekly seminar covering topics in current research on blood cell development and stem cell biology. Current research and literature in these areas discussed. Students lead some discussions and participate in all meetings.

Enrollment restricted to graduate students. 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.

281P. Seminar on Nanotechnology and Biosensors (2 credits).

Weekly seminar covering topics of research in the development of new tools and technologies to detect and study genes and proteins. Latest research work and literature in these areas are 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 1M 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.

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.

240F. Selectivity and Strategy in Organic Synthesis (3 credits).

An advanced study on the use of chemoselectivity, regioselectivity, and stereoselectivity in organic transformations. Strategic planning in approaching the synthesis of complex molecules focuses primarily on retrosynthetic analysis and stereochemical control. Prerequisite(s): course 240E.

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 (2 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 production, production, and post-production skills. Concurrent enrollment in course 80L required. Enrollment limited to 25.

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.)

100E. Theory and Practice of Economic Justice.

Examines how markets operate within the political economy of contemporary capitalism to generate myriad and often chronic forms of economic and social inequality in the United States. Explores different approaches to addressing inequality within the multi-faceted economic justice movement. Interview only: admission determined at first class meeting. Enrollment limited to sophomores and juniors. Enrollment limited to 25. (General Education Code(s): IS, E.)

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.)

110. Resistance and Social Movements.

Where do ideas for democratic social change come from? How are new social movements formed? Emphasis will be placed on subaltern groups including slaves, peasants, workers, utopians, and “second-class citizens” of the global economy from 1492 to the present. (Formerly course 100P) (General Education Code(s): E.)

122. 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. (Formerly course 114.) Enrollment limited to 25. (General Education Code(s): E.)

152. Mediating Desire.

Considers the ways Third World voices and bodies are understood, performed, embraced, commodified, exploited, and rejected through representations. Uses representations of, by, and for the margins to engage theories of communication, identity, and representation. Creative final projects encouraged. (Formerly course 132.) (General Education Code(s): E.)

161. Women’s Health Activism.

Examines concrete aspects of women’s health in social and political contexts, including such factors as environmental and occupational health, the role of race and nationality, diverse sexualities and health, American medical care systems, and international comparisons and organizing approaches. (Formerly course 148.)

179. 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). (Formerly course 119.) Enrollment limited to 15. May be repeated for credit.

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. Priority 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 5C or 5J or 5P, 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 5C or 5J or 5P, 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.)

80A. Universal Access: Disability, Technology, and Society.

Overview of human-centered technology and of its potential for increasing the quality of life and independence of disabled individuals. A substantial portion of the course is devoted to studying physical, psychological, and psychosocial aspects of disability. Topics include: diversity and integration, legislation, accessibility, and universal design. (Formerly Assistive Technology and Universal Access.) (General Education Code(s): T7-Natural Sciences or Social Sciences.)

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 101/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 101/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.)

167. Sensing and Sensor Technologies.

Introduces the fundamental issues in sensing and various sensor technologies including motion sensors, velocity sensors, GPS sensors, acoustic sensors, light and image sensors, and range sensors. Also demonstrates sensor technologies using a system approach to show how they can be integrated into a complete digital system. Prerequisite(s): course 100 and Electrical Engineering 101/L. Concurrent enrollment in course 167L is required.

167L. Sensing and Sensor Technologies Lab (2 credits).

Lab assignments reinforce the concepts and techniques learned in course 167. Assignments include measurement and estimation techniques, experiments with various sensors, and a course project in which students build digital sensing systems. Students are billed a materials fee. Prerequisite(s): course 100 and Electrical Engineering 101/L. Concurrent enrollment in course 167 is required.

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 101/L or consent of instructor.

177. Applied Graph Theory and Algorithms.

Basic concepts and algorithms are reviewed including trees, Eulerian and Hamiltonian graphs, and graph transversal. Algorithms are explored to solve problems in connectivity, routing, matching, and embedding of graphs. Graph theory and algorithms are developed around applications in computer engineering. Prerequisite(s): Computer Science 101.

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.

241. Introduction to Feedback Control Systems.

Graduate-level introduction to control of continuous linear systems using classical feedback techniques. Design of feedback controllers for command-following error, disturbance rejection, stability, and dynamic response specifications. Root locus and frequency response design

techniques. Extensive use of Matlab for computer-aided controller design. Course has concurrent lectures with Electrical Engineering 154. (Also offered as Electrical Engineering 241. Students cannot receive credit for both courses.) Enrollment restricted to graduate students.

248. Games in Design and Control.

Graduate-level introduction to game theory and its applications to system design, verification, analysis, and optimal control. Enrollment restricted to graduate students. Computer Science 101, 201, or equivalent recommended.

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.

259. Sensor Networks.

Focus is on the networking aspects of sensor networks: protocols at the various layers and how they answer the specific requirements posed by these networks (e.g., data driven, energy efficient, etc.) and their applications (monitoring, tracking, etc.). Explore how physical layer and hardware issues may influence protocol design. Courses 252A and 257 recommended.

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 courses 5C and 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.)

12A. Introduction to Programming (Accelerated).

Accelerated introduction to programming. Students write medium-sized programs. Topics include: functions; conditionals and loops; classes; event-driven programming and graphic user interfaces (GUIs); recursion; and arrays. Students who have no or very limited programming experience should consider courses 5J and 11 which cover the same material in two quarters. Students may not receive credit for both this course and course 11. Some prior programming experience in a language such as C, C++, Java, or C# strongly recommended. Prerequisite(s): eligibility to enroll in Mathematics 19A (Mathematics 2B or 3 or 40 or higher on mathematics placement exam) or completion of Mathematics 11A or 19A or Economics 11A or AMS 11A. Concurrent enrollment in 12L required. (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 11 or 12A. Concurrent enrollment in course 12M required. Enrollment limited to 150. (General Education Code(s): IN.)

12L. Computer Programming Laboratory (2 credits).

Laboratory sequence complementing topics taught in course 12A by providing training and exposure to several software development tools and practices not covered in course 12A. In addition, the lab provides an initial exposure to a second programming language to reinforce concepts from course 12A. Prerequisite(s): eligibility to enroll in Mathematics 19A (Mathematics 2B or 3 or 40 or higher on mathematics placement exam) or completion of Mathematics 11A or 19A or Economics 11A or AMS 3 or 11A. Previous or concurrent enrollment in 12A required.

12M. Data Structures Laboratory (2 credits).

Complements course 12B, gaining additional competence with a number of important 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.

80J. Technology Targeted at Social Issues.

Introduces the idea that engineering can be a means for addressing social issues. Case studies and guest speakers. Issues might include: economic development, privacy, activism, safe drinking water, inexpensive shelters, sustainable energy, education, and waste disposal. (General Education Code(s): T7-Natural Sciences or Social 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; CMPE 16 or 16H; MATH 19B; and one course from the following: MATH 21, 22, 23A, or AMS 10.

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.

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.

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 10. 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 10. Concurrent enrollment in course 160 required. Enrollment restricted to all engineering majors. Enrollment limited to 50.

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. (Also offered as Biology: Ecology & Evolutionary 176A. Students cannot receive credit for both courses.) Prerequisite(s): Applied Math and Statistics 5 or 7 or Economics 113; and Economics 11B, Applied Math and Statistics 11B, or Mathematics 11B or 19B. Enrollment restricted to juniors and seniors. Enrollment limited to 100.

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. Students are billed a materials fee. Prerequisite(s): course 20 and 109, and any two of the following: courses 102 105, 111, 128, 130 140, 146, 148 160/L, 161/L, 164/L, 180, 181, 103; Computer Engineering 110, 112, 113, 117/L, 118/L, 150 Enrollment limited to 50.

180. Database Systems I.

Introduction to the concepts, approaches, tools, and methodology of database design. Covers the entity-relationship model, the relational model, relational algebra, relational calculus, commercial languages (such as SQL and QBE), functional dependencies, normal forms, and design theory. Other topics may include knowledge-bases, constraint databases, and alternative database models. Prerequisite(s): course 101.

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.

221. Advanced Operating Systems.

A detailed study of the issues involved in operating systems design and implementation. Readings cover current research topics and systems of historical significance. Topics include (but are not restricted to) process and memory management, protection, security, synchronization, performance evaluation, file systems, distributed systems. Enrollment restricted to graduate students; undergraduates by interview only.

242. Machine Learning.

Introduction to machine learning algorithms. Covers learning models from fields of statistical decision theory and pattern recognition, artificial intelligence, and theoretical computer science. Topics include classification learning and the Probably Approximately Correct (PAC) learning framework, density estimation and Bayesian learning, EM, regression, and online learning. Provides an introduction to standard learning methods such as neural networks, decision trees, boosting, nearest neighbor, and support vector machines. Requirements include one major experimental learning project or theoretical paper. Enrollment restricted to graduate students. Enrollment limited to 30.

280D. Seminar in Database Systems (2 credits).

Covers advanced research topics from the recent literature in database systems and related fields. Involves presentations from UCSC students and faculty, and guest talks from researchers in industry and other academic institutions. Enrollment by permission of instructor. Enrollment limited to 30. May be repeated for credit.

280G. Seminar on Software Engineering (2 credits).

Weekly seminar covering topics of current research in software engineering. Prerequisite(s): permission of instructor. Enrollment restricted to graduate students. Enrollment limited to 30. May be repeated for credit.

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.

280W. Seminar in Digital Media (2 credits).

Covers advanced topics and current research in digital media—the interdisciplinary field at the intersection of computer science, media authoring, and models of interpretation from the humanities and social sciences. Focuses on student presentations and seminar participation. Enrollment restricted to graduate students. 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 by permission of instructor. Enrollment restricted to graduate students. Enrollment limited to 30. May be repeated for credit.

290B. Advanced Topics in Computer Graphics.

A graduate seminar in computer graphics on topics from recently published research journal articles and conference proceedings. Topics vary from year to year depending on interests of students. Primary areas of interest are likely to be scientific visualization, modeling, rendering, scattered data techniques, wavelets, and color and vision models. Students read technical papers and present class lectures. Guest lecturers supplement the student presentations. A research project is required. Enrollment limited to 15. 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.

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 art and new media, while exploring key theories concerning technology, art, and culture. Focus is 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 18.

204. Ways of Seeing and Hearing.

Graduate-level advanced seminar explores ways that seeing, hearing, and knowing are influenced by culture, power, race, and other factors. Readings emphasize how documentary subjects are constituted and known, addressing questions of epistemology, social constructivism, objectivity, and method. (Also offered as Social Documentation 204. Students cannot receive credit for both courses.) Enrollment restricted to social documentation and digital arts new media graduate students. Enrollment limited to 18.

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.

219. Introduction to Electronics for Artmaking.

Intensive introduction to electronic devices used in artmaking, providing hands-on experience with sensors, motors, switches, gears, lights, simple circuits, microprocessors, and hardware storage 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.

250A. Collaborative Research Project Groups.

Three-quarter collaborative research project group in one of four focus areas that represent the current research of DANM faculty: participatory culture, mechatronics, performative technology, and playable media. 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.

250C. Collaborative Research Project Groups.

Three-quarter collaborative research project group generates faculty-initiated new public and performative spaces where digital media, communication networks, and interactive systems may be fused with lighting, movement, stage, and sound design to create shared multimedia experiences for audiences and performers. Enrollment restricted to graduate students. Enrollment limited to 8. May be repeated for credit.

267. Workshop in Computer Music and Visualization (2 credits).

Graduate-level techniques and procedures of computer music composition and visualization. Practical experience in the UCSC electronic music studio with computer composition systems and software, including visualization and interactive performance systems. Extensive exploration of music and interactive graphic programs such as Max/MSP/Jitter. Enrollment by permission of instructor; appropriate graduate experience required. Enrollment restricted to graduate students. Also offered as Digital Arts and New Media 267. Students cannot receive credit for both courses. (Also offered as Music 267. Students cannot receive credit for both courses.) Enrollment limited to 12. May be repeated for credit.

Earth 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.

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.)

80C. Introduction to Weather and Climate.

Many meteorological phenomena are familiar to us: clouds, fog, rain, snow, wind, lightning, and severe storms. Climate is the sum of weather over long periods and is changing (e.g., greenhouse warming, ozone depletion, urban smog) due to mankind's activities. Conceptual understanding of how and why the present-day atmosphere behaves as it does and how this may change in the future is the primary goal of this course. Offered in alternate academic years. (General Education Code(s): T2-Natural Sciences, Q.)

101. The Fossil Record.

An introduction to paleobiology; the use of fossil evidence to pose and solve evolutionary and geologic questions. Students are billed a materials fee. Prerequisite(s): course 10 or 5 or 20 or Biology 20C or Anthropology 1. Concurrent enrollment in course 101L is required.

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.

102. Marine Geology.

Geology of the marine environment. Topics include controls on the types, origin, and distribution of marine sediments; geology of oceanic crust; evolution of continental margins and plate boundaries; introduction to paleoceanography. Discussion: 1 hour. Students cannot receive credit for this course and Ocean Sciences 280. Prerequisite(s): course 5 or 10 or 20 or Biology 20C.

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.)

150. Structural Geology.

Principles and methods of analysis of brittle and ductile 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.

160. Planetary Science.

Broad introduction to planetary science. Topics include the fundamental characteristics of solar system bodies; space exploration of these bodies; formation and evolution of surfaces, atmospheres and interiors of planets, satellites and small bodies. Prerequisite(s): Math 11B or 19B, and Physics 5A or 6A.

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.

208. Methods in Paleoclimatology.

Addresses methods used to reconstruct aspects of paleoclimates and paleoenvironments from the geologic record, focusing primarily on terrestrial records. Topics to be covered include dendrochronology and dendroclimatology, paleopalynology, paleobotany, ice cores, and paleosol studies. Lectures, discussions, and laboratory work. Enrollment restricted to graduate students. Offered in alternate academic years.

209. Solid Earth Geochemistry.

Origin and distribution of the elements in the earth and meteorites; bulk and isotopic composition and differentiation of terrestrial planets, core, mantle, and crust; Sr-Nd-Pb-Hf-U isotopic tracers. Course designed for graduate students, but available to qualified earth sciences majors per instructor permission. Will be offered in 2007–08 academic year. Enrollment restricted to graduate students.

280D. Short Course in Atmospheric/Climate Science (3 credits).

Addresses specialized topics in atmospheric and/or climate science that are too narrow for a full (5-credit) format. Examples include: cloud physics; atmospheric boundary layer; aerosol physics and chemistry; atmospheric radiation; atmospheric thermodynamics. Enrollment restricted to graduate students. May be repeated for credit.

290B. Topics in Glaciology.

Advanced review of the physics and chemistry of ice and snow. Mass and heat balance of ice masses. Motion of glaciers and ice sheets. Subglacial and englacial hydrology. Thermodynamics of ice masses and the linkage to climate. Enrollment restricted to graduate students. May be repeated for credit.

290F. Topics in Coastal Processes (2 credits).

Instructor and students lead discussions and make presentations on current research, problems, and publications in coastal processes. These topics include littoral drift, sediment transport and storage on the inner shelf, shoreline erosion/change and its documentation, and related issues. 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 I.

Introduction to mathematical tools and reasoning, with applications to economics. Topics are drawn from differential calculus in one variable and include limits, continuity, differentiation, elasticity, Taylor polynomials, and 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 II.

Mathematical tools and reasoning, with applications to economics. Topics are drawn from multivariable differential calculus and single variable integral calculus, and include partial derivatives, linear and quadratic approximation, optimization with and without constraints, Lagrange multipliers, definite and indefinite integrals, and elementary differential equations. (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. Students cannot receive credit for this course and course 100N. 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.

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.

107. Economic Justice.

Theories of justice, equity, and rights in economics and their applications to such issues as wages, taxation, property rights, welfare programs, and globalization. Students get extensive practice in writing persuasive, argumentative essays. 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. R. Shepherd

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 Applied Mathematics and Statistics 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, 2, and 113. (General Education Code(s): E.)

126. Why Economies Succeed or Fail: Lessons from Western and Japanese History.

Examines the emergence of capitalism and the world's first industrial revolution in Britain, continental Europe industrialization, Soviet economic growth and collapse, and the Japanese economic miracle. Asks about the historical sources of long-run economic development, stagnation,

and decline. Draws lessons for current debates over free market versus more interventionist policies, economic reform in the former Communist nations, and economic rivalry between the U.S. and Japan. Prerequisite(s): courses 1 and 2. Related course work in history also helpful. B. Elbaum

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.

135. Corporate Finance.

An analysis of financial policies of business enterprises. Topics include cash flow analysis, stock and bond valuation, asset pricing models, capital budgeting, financial market institutions, and financial planning. Prerequisite(s): courses 10A, 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.

141. International Finance.

Topics include national accounting, balance of payments theories, parity conditions in international finance, exchange rate determination models, forward-looking financial instruments, international monetary systems, country interdependence and exchange rate regimes, international monetary integration, and Eurocurrency market. Prerequisite(s): course 100B or 100N.

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.

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.

156. Health Care and Medical Economics.

Health economics theory and review of studies of the health industry, including current topics. Focuses on the structure of the U.S. health care system, including analysis

of health policy issues. Relationship to models of perfect competition and efforts at reform. Prerequisite(s): courses 100A or 100M and 113.

165. Economics as an Experimental Science.

The design, execution, and analysis of laboratory experiments in economics. Students study experimental methodology, critically survey the published literature, and design an experiment. Literature includes lab studies of investigations in auctions, markets, social choice theory, and game theory. Prerequisite(s): course 100A or 100M, and course 113. Enrollment limited to 40. (General Education Code(s): W.)

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. (Also offered as Biology:Ecology & Evolutionary 176A. Students cannot receive credit for both courses.) Prerequisite(s): Applied Math and Statistics 5 or 7 or Economics 113; and Economics 11B, Applied Math and Statistics 11B, or Mathematics 11B or 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.

180. Labor Economics.

A study of the changing nature and composition of the U.S. labor force. Topics include the demand for and supply of labor; wage determination; the role and impact of unions in the labor market; racial, ethnic, and gender differences in job and income opportunities and the role of discrimination in explaining these differences; and the theory of human capital, all considered from the traditional neoclassical as well as institutional and radical perspectives. Prerequisite(s): course 100A or 100M. Course 113 is strongly recommended as preparation.

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.

210A. Mathematical Methods for Economic Analysis.

Mathematical methods commonly used in economic analysis are discussed. Covers basic matrix algebra, real analysis, functions, continuity concepts, differentiation, Taylor expansion, implicit function theorem, and optimization. Prerequisite(s): qualifications as determined by instructor; inquire at department office.

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.

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

40. Identity and Schooling.

Examines history and philosophy of U.S. public education system and its impact on identity formation. Introduces basic frameworks for understanding school and society. Enrollment restricted to first-year, incoming Bridge/EOP students. Enrollment limited to 125. (General Education Code(s): IS.)

60. Introduction to Education: Learning, Schooling, and Society.

Explores the foundations of learning and teaching, the social and political forces within schools and school systems in the U.S., and the educational policies and practices in culturally and linguistically diverse communities. Enrollment limited to 275. (General Education Code(s): IS, E.)

100B. 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 restricted to sophomores, juniors, and seniors enrolled in the CAL Teach program. (Formerly course 75B.) 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 math classroom. Enrollment restricted to sophomores, juniors, and seniors in the CAL Teach program. Enrollment limited to 25.

100C. 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 must concurrently participate in a K-12 school internship. Course content supports and enhances students' placement experiences. (Formerly course 75C.) Prerequisite(s): CAL Teach 1 (course 50A, 50B, or 50C); acceptance into CAL Teach 2 and concurrent participation in a secondary school internship in a science classroom. Enrollment restricted to sophomores, juniors, and seniors in the CAL Teach program. Enrollment limited to 25.

128. Immigrants and Education.

Research and theory on the education of immigrant students. Major topics include the Americanization movement and America's changing demography, identity maintenance and change, home-school relations, and educators' roles in meeting the needs of culturally and linguistically diverse student populations. Enrollment restricted to juniors and seniors. Enrollment limited to 50. (General Education Code(s): E.)

164. Urban Education.

Focuses on urban schooling through critical readings, fieldwork, group projects, and extensive writing. Students explore how socialization, marginalization, and assimilation impede or support academic success, how class intersects with "race", and how "culture" affects one's orientation to education. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. Enrollment restricted to juniors and seniors. Enrollment limited to 50. Satisfies American History and Institutions Requirement. (General Education Code(s): W, E.)

170. East Asian Schooling and Immigration.

Focuses on an historical and contemporary study of education in Japan, China, Korea, Hong Kong, and Taiwan, and the adaptation to schooling in the U.S. of immigrant families from those cultures. Topics include the effects on schooling of language acquisition, religion and cultural practices, family patterns, socioeconomic status, career aspirations, and parental expectations. (Formerly Schools and Asian Cultures.) Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements. Enrollment limited to juniors and seniors. Enrollment limited to 50. (General Education Code(s): W.)

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 Subject.

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.

212. Language, Literacy, and Diversity.

Designed to prepare students to teach reading/language arts in a way that addresses the needs and circumstances of a culturally and linguistically diverse student population. Topics include the following: exploration of the literacy development of native and non-native speakers of English, understanding the theoretical perspectives on language and literacy development, learning instructional approach that enhance development of literacy, and learn to assess students' literacy development. (Formerly course 242A.) Enrollment restricted to graduate students admitted into the credential program.

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.

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.

289. School Organization.

Applies multiple perspectives drawn from organizational theory, highlighting important aspects of organization of schools, including their operational environment, instructional organization, and professional and bureaucratic dimensions. (Formerly course 268B.) Enrollment restricted to graduate students. Enrollment limited to 12.

Electrical Engineering

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.)

101. 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. (Formerly course 70.) Prerequisite(s): Physics 5C/N or 6C/N, and

Mathematics 24 with Applied Mathematics and Statistics 27L or Applied Mathematics and Statistics 20 or 20A. Concurrent enrollment in course 101L is required.

101L. Introduction to Electronic Circuits Laboratory (1 credit).

Illustrates topics covered in course 101. One two-hour laboratory session per week. Students are billed for a materials fee. (Formerly course 70L.) Prerequisite(s): Physics 5C/N or 6C/N, and Mathematics 24 with Applied Mathematics and Statistics 27L or Applied Mathematics and Statistics 20 or 20A. Concurrent enrollment in course 101 is required.

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): course 101/L and Applied Mathematics and Statistics 20.

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. C. Gu

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.

154. Feedback Control Systems.

Analysis and design of continuous linear feedback control systems. Essential principles and advantages of feedback. Design by root locus, frequency response, and state space methods and comparisons of these techniques. Applications. Prerequisite(s): course 103. Enrollment restricted to School of Engineering and Division of Physical and Biological Sciences majors or permission of instructor. Enrollment limited to 30.

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, switched 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. Students are billed a materials fee. 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.

241. Introduction to Feedback Control Systems.

Graduate-level introduction to control of continuous linear systems using classical feedback techniques. Design of feedback controllers for command-following error, disturbance rejection, stability, and dynamic response specifications. Root locus and frequency response design techniques. Extensive use of Matlab for computer-aided controller design. Course has concurrent lectures with Electrical Engineering 154. (Also offered as Computer Engineering 241. Students cannot receive credit for both courses.) Enrollment restricted to graduate students.

261. Error Control Coding.

Covers the following topics: introduction to algebra; linear block code; cyclic codes; BCH code; RS codes; spectral domain study of codes; CRC; and product codes. Enrollment restricted to graduate students.

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.

281. Guest Seminar Series (1 credit).

Distinguished speakers from industry, universities, and government discuss current developments in electrical engineering and related fields. Emphasis on research questions that may lead to collaborative work with faculty and graduate students. Enrollment restricted to graduate students. 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.)

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. 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.

122. Tropical Ecology and Conservation.

An introduction to the ecological processes, principles, and players of tropical ecosystems, and to conservation issues facing tropical American forests. We will look at how tropical ecosystems work, roles of humans in shaping them, and current conservation opportunities and dilemmas. Prerequisite(s): course 24 or Biology 20C or 150. A course in statistics and precalculus is recommended.

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.

141. Ecological Economics.

Application of economic analysis to natural resource policy and management. Topics include welfare economics, property rights and externalities, natural resource valuation, exhaustible and renewable resources, and sustainable development. (Formerly Natural Resource Economics) Economics 1 is strongly recommended as preparation. Enrollment restricted to environmental studies majors and biology, Earth sciences, and economics combined majors.

158. Political Ecology and Social Change.

The object is to provide a rigorous grounding in the method of political ecology and to demonstrate how this approach has been used in environmental analysis and problem solving by environmental social movements. Enrollment restricted to junior and senior majors in environmental studies and the combined majors in

Earth sciences, biology, and economics. Enrollment limited to 20.

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.

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.

196B. Senior Seminar: Methods in Environmental Policy Analysis.

Introduction to some of the tools in environmental policy analysis, ranging from quantitative techniques (drawing on economics and statistics) to cross-cutting, qualitative designs. Students perform policy analysis exercises throughout the quarter and evaluate normative dimensions of competing analytic techniques. Prerequisite(s): instructor determination based on student's academic background. Enrollment limited to 18.

196P. Senior Seminar: Regional Foodshed Research Practicum.

This course involves supervised individual and group interdisciplinary research on ecological and social justice dimensions of food production and community food security in the Monterey Bay region. Students are expected to actively engage with regional actors, local agencies, and community programs. Prerequisite(s): interview to determine background and interest in doing advanced field research on local agro-food issues with assessment of quality of work in relevant courses. Enrollment limited to 15. May be repeated for credit.

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 graduate 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.

230. Agroecology and Sustainable Agriculture.

The application of ecological concepts and principles to the design and management of agricultural systems. The long-term goal of sustainable agroecosystems is examined in economic, social, and ecological contexts. 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.

Feminist Studies

80A. Feminism and Social Justice.

Examines, and critically analyses, select post-World War II movements for social justice in the United States from feminist perspectives. Considers how those movements and their participants responded to issues of race, class, gender, and sexuality. A feminist, transnational, analytic

framework is also developed to consider how those movements may have embraced, enhanced, or debilitated feminist formations in other parts of the world. (General Education Code(s): T5-Humanities and Arts or Social Sciences.)

80B. Sexuality and Globalization.

Examines the relationship between sexuality and the contemporary term “globalization” as a dense entanglement of processes that emerges from a history of U.S. empire. Sexuality cannot be separated from power struggles over the classification of bodies, territories, and questions of temporality. Examines how sexualized contact zones produce new knowledge, commerce, inequalities, possibilities, and identities. (General Education Code(s): T5-Humanities and Arts or Social Sciences.)

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.

124. Technologies and Latinidad: Cyberspace and Beyond.

Introduction to analyzing technology as it is produced through gender, race, class, and sexualized differences. Examines film and the Internet through the genealogy of these technologies in relation to U.S. nationalism, development, and empire, creating social communities and new identities, and the global production of labor. Examines interdisciplinary methods (ethnography, media analysis, cultural studies and, literary analysis) to broaden understanding of Latina/o subjectivity as historical construct mediated through various modes of visual production. Enrollment restricted to sophomore, junior, and senior feminist studies majors during priority enrollment only. Enrollment limited to 25. (General Education Code(s): E.)

194D. Feminist Science Studies.

Examines different feminist approaches to understanding the nature of scientific practices. Particular attention paid to notions of evidence, methods, cultural and material constraints, and the heterogeneous nature of laboratory practices. Considers the ways in which gender, race, and sexuality are constructed by science and how they influence both scientific practices and conceptions of science. Also examines the feminist commitment to taking social factors into account without forfeiting the notion of objectivity. Prerequisite(s): course 1 or 80C; and course 100. Enrollment restricted to senior feminist studies majors. Enrollment limited to 20.

240. Culture and Politics of Human Rights.

Examines the role of feminist activism and jurisprudence in the expansion of human rights addresses the Universal Declaration of Human Rights. Addresses challenges of accommodating women’s specificity within international human rights law. Focus on application of international and regional human rights conventions and new human rights standards. (Formerly Feminism and the Culture and Politics of Human Rights.) (Also offered as Latin American&Latino Studies 240. Students cannot receive credit for both courses.) 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.)

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.)

134B. American Film, 1960–Present.

A survey of American narrative cinema from 1960 to the present. Examines developments in film style, film technology, and the film industry in relation to American cultural history. Students are billed a course fee. Prerequisite(s): course 20A or 20B. Offered in alternate academic years.

136C. Visual Culture and Technology: History of New Media.

Explores the relationship between technology and change and surveys the history of various technologies of visual culture from print to computer based imagery and the Internet. Students are billed a course fee. Prerequisite(s): course 20C.

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.)

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.

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. The online application process begins several prior to the start of the 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.)

171F. Special Topics Workshop: Autobiographical Film.

Students explore autobiography as a filmmaking genre and practice, using experimental, fictionalized, documentary, and hybrid forms. Readings and screenings provide a theoretical context for production work. Topics include: strategies of (self) representation, reenactment, performance, portraiture, memoir, confession, and diaristic film. Prerequisite(s): course 170B. Enrollment by interview only; priority given to application process/production concentration. Enrollment limited to 25.

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 an online application process which begins several weeks prior to the start of the 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 an online application process which begins several weeks prior to the start of the 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 moods, 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.)

136. La Francophonie.

In-depth multidisciplinary study of one or more French-speaking regions of the world. Includes history, language, society, literature, and the arts. All course work will be done in French. Prerequisite(s): course 6 May be repeated for credit.

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.

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.)

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.)

History

10A. United States History to 1877.

A survey of the political, social, and cultural history of the U.S. from the founding of the North American colonies to 1877. Satisfies American History and Institutions Requirement. (General Education Code(s): IH.)

40B. The Making of Modern East Asia.

A broad introductory survey of the political, social, economic, philosophical, and religious heritage of modern China, Japan, and Korea. Emphasis on the historical foundations of modern nationalism, the colonial experience, and revolutionary movements. (Formerly course 40.) (General Education Code(s): IH, E.)

62B. Classical World: Rome.

A lecture course offering an overview of Roman history and civilization from the legendary founding of Rome in 753 B.C. to the collapse of the Roman Empire's central administration in the West in 476 A.D. (General Education Code(s): IH.)

70A. Modern European History, 1500–1789.

A survey of economic, social, and political history of Europe since the late 15th century: 1500–1789. A is not prerequisite to B, nor B to C. (Formerly Modern European History.) (General Education Code(s): IH.)

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.)

110B. Revolutionary America, 1740–1815.

Explores the political, social, economic, and cultural development of British North America from the first stirrings of resistance to the establishment of the U.S. Course 110A is not a prerequisite to course 110B. (Formerly Colonial and Revolutionary America.) Satisfies American History and Institutions Requirement.

110E. What Is a Nation? The U.S. from 1877 to 1914.

History of the U.S. during what was perhaps its most socially turbulent era, the period following Reconstruction through the First World War. What did it mean to be a nation in the post-Reconstruction era? How did a country that had only recently unified itself under one system of labor now resolve the question of national identity? Was America truly a nation by 1914?

113C. Women and American Religious Culture.

Historical introduction to religious culture of U.S. as experienced and created by women. Explores religious ideas about women, the treatment of women by mainstream institutions and religio-social communities, and female religious leaders and followers. Takes an explicitly feminist analytical approach and uses a variety of “texts,” including historical and literary scholarship, sacred texts, fiction, autobiography, material artifacts, visual art, and music.

115B. U.S. Labor History, 1919 to the Present.

Explores the history of work, working-class people, and the labor movement in the U.S. in global perspective with attention to race and gender dynamics and political-economic changes. Satisfies American History and Institutions Requirement.

128. Chicana/Chicano History.

A survey course on the social history of the Mexican (Chicana/o) community and people in the U.S. through the 20th century. Themes include resistance, migration, labor, urbanization, culture and politics. Satisfies American History and Institutions Requirement. (General Education Code(s): E.)

137A. Africa to 1800.

Introduction to history of Africa. Topics include states and “stateless” societies, culture, society and economy in the pre-modern era, stratification, oral traditions, long distance trade, the coming of Islam, and the evolution of the South Atlantic system and its social, political, and other consequences. Some background knowledge of Africa helpful. (General Education Code(s): E.)

140C. Revolutionary China 1895–1960.

Explores history of China from the late 19th century to the early years of the People’s Republic, focusing on the end of imperial rule, the sources and development of revolution, and early attempts at socialist transformation. (General Education Code(s): E.)

163A. A History of Sin.

Ancient and modern conceptions of sin, and remedies offered for it. Course is not a theology of sin and redemption, but an invitation to reflect on ways sin and fault have been imagined and formulated. (Formerly course 163.)

172A. German History.

The development of German civilization, including philosophy and literature as well as politics and diplomacy in the nineteenth and twentieth centuries.

190A. Slavery and Race in Latin America. W

Covers comparative history of slavery in Latin America with questions of race in the colonial and national periods and key moments and debates in the historiography of slavery and its relation to ideologies of the past and the nations. 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.)

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.)

190X. History of the Atlantic World, 1492–1824.

Explores the transatlantic societies created by Europeans’ colonization of the Americas, and their exploitation of African slaves. Questions whether the cultural, economic, and political links across the ocean integrated the adjacent lands into a fundamentally “Atlantic World.” Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements, and two upper-division history courses. 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.)

196B. Social Protests in Late Medieval and Early Modern England.

Explores the social, cultural, economic, and political context of popular protest in England from 1347 through 1631. An important dimension of that exploration is an examination of official government responses to riot and rebellion. Two courses in medieval or early modern European history recommended as preparation. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements; two upper-division history courses. Enrollment restricted to junior and senior history majors. Enrollment limited to 20. (General Education Code(s): W.)

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.)

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.

205. Diaspora and World History.

Examines the histories and historiography concerning diaspora. This area of study includes populations from Asia, Africa, Europe, and the Americas. Students study the histories of diasporic populations, and the questions, theory, and methods that scholars use to approach the subject. Enrollment limited to 10.

210A. Readings in U.S. History.

Introduction to major themes and controversies in the interpretation of U.S. history. Readings cover both chronological eras and topical subjects, often in a comparative context: colonial and early national periods. Enrollment restricted to graduate history majors. Enrollment limited to 15.

242. Readings in Modern Japan.

A graduate course intended to give students a fundamental understanding of the major themes in the study of modern Japanese history. Central themes include modernity and modernization, colonialism, postwar recovery, gender, race, and nationalism. (Formerly course 210.) Enrollment restricted to graduate students. Enrollment limited to 15.

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 Art and Visual Culture

10D. Presence and Power in the Visual Cultures of Asia.

An introduction to the art and architecture of East Asia, including China, India, Southeast Asia, and Japan. In order to achieve a fuller understanding of the arts of these countries a historical, cultural, and religious context is provided. (General Education Code(s): IH, A.)

80H. Video Games as Visual Culture.

Through the aesthetics and theory of electronic games, introduces the histories, ideas, and debates that inform game studies. Topics include: narratology/ludology debates, interactivity, serious games, and alternative games. (General Education Code(s): T5-Humanities and Arts or Social Sciences, A.)

80M. Indigenous American Visual Culture.

Selected aspects of art and architecture of the first peoples of the Americas, north, central, and south, from ca. 2000

B.C.E. to present. Societies to be considered may include Anasazi, Aztec, Inca, Northwest Coast, Maya, Navajo, Plains, and others. (General Education Code(s): T5-Humanities and Arts or Social Sciences, A, E.)

100A. *Methods in History of Art and Visual Culture.*

Introduction to major issues of method and critique in study of art and visual culture. Focuses on understanding disciplinary and critical modes of scholarly inquiry in the visual arts, including role of historical research. Emphasizes intensive reading, discussion, and writing. Prerequisite(s): satisfaction of Entry Level Writing and Composition requirements. Enrollment restricted to sophomore, junior, and senior History of Art and Visual Culture majors. Enrollment limited to 18. (General Education Code(s): W,A.)

105P. *Visual Cultures of the Pacific Islands.*

Interdisciplinary course examines visual cultures of Australia, Melanesia, Micronesia, and Polynesia from the archaeological past through contemporary periods. (General Education Code(s): A, E.)

106A. *Religious Traditions in Indian Art.*

Examines ways in which religious traditions are embedded in (or embodied within) art of the Indian sub-continent. Topics include Hindu temples; Jain art; Buddhist sacred narratives and cosmology; royal elite and popular patronage; and functions of icons. Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 80. (General Education Code(s): A, E.)

185C. *African Architecture.*

Study of the built environment in Africa. Focusing in depth on 10 major architectural forms or sites, this course explores the diversity of architectural types and how gender, politics, religion, and culture shape and are shaped by architectural spaces. Enrollment limited to 35. (General Education Code(s): A, E.)

189V. *Art of the Venetian Renaissance.*

Considers Venetian art in the 15th and 16th centuries. Topics include major artists (the Bellini, Carpaccio, Titian, Tintoretto, Veronese, Palladio) and the relationship of the city to outside forces (Byzantine Empire, Turkish Empires) and other Italian cities. 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. Course can be taken for senior exit credit only by permission of instructor. Enrollment restricted to junior and senior history of art and visual culture majors, or by permission. Enrollment limited to 18. (General Education Code(s): A, E.)

History of Consciousness

237A. *Historical Materialism.*

Students read landmark works of classical and contemporary Marxism. Writings from Marx, Lenin, Trotsky, Lukacs, Gramsci, Adorno, Benjamin, Sartre, Althusser,

Anderson, Jameson, and Zizek are addressed. Enrollment restricted to graduate students. Enrollment limited to 15.

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 Applied Mathematics and Statistics 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.

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.

260. *Information Retrieval.*

Course covers major topics of information retrieval, including statistical characteristics of text, several important retrieval models, text clustering, text classification, text filtering, web analysis, information extraction, peer to peer research, distributed search, personalized search, and other related topics. Enrollment restricted to graduate students. Undergraduates may enroll with permission of instructor.

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.)

103. *Advanced Japanese.*

Readings in contemporary Japanese. Assignments include short stories, writing essays, classroom presentation and translation of a short story. May be repeated for credit with consent of instructor. Prerequisite(s): course 50. Students interested in this course who have not taken the prerequisite should meet with the instructor prior to the first class meeting.

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.

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/o 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. Enrollment restricted to sophomores, juniors, and seniors. (General Education Code(s): E.)

80P. Energy, Society, and Ecology in Latin America.

From petroleum extraction to hydroelectric power to ethanol production, Latin America is an important provider of the world's energy. Course examines the implications of this process for economic growth, climate change, environmental degradation, social inequality, and poverty. Enrollment limited to 60. (General Education Code(s): T3-Social Sciences, E.)

80Q. Música 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 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 Folklorico Dance (2 credits).

Provides instruction in the aesthetic, cultural, and historical dimensions of Mexican folklorico 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.)

122. Media and Nationalism.

Evaluates the links between media and the production of national identities in Latin America. Focuses on theories of nationalism, media, and globalization to examine the production of national histories and representations. Enrollment restricted to juniors and seniors. Enrollment limited to 35. (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.

146. Urban Crisis in the Americas.

Multidisciplinary course on the cities of Latin America and Latino barrios in the U.S. Examines how cities have been constituted spatially, economically, and culturally from the Pre-Columbian era to the present. (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. Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 35. (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, how migrants experience access to care, and how agencies can design culturally sensitive programs. Prerequisite(s): course 100A. (General Education Code(s): E.)

194I. Contemporary Ecuador.

The Andean nation of Ecuador exemplifies cultural and biological diversity, rapid economic and social change, and increasing geopolitical influence as one of the current South American left-leaning countries. Course looks at Ecuador's recent history and future challenges. Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 20.

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.)

240. Culture and Politics of Human Rights.

Examines the role of feminist activism and jurisprudence in the expansion of human rights since the Universal Declaration of Human Rights. Addresses challenges of accommodating women's specificity within international human rights law. Focus on application of international and regional human rights conventions and new human rights standards. (Formerly Feminism and the Culture and Politics of Human Rights.) (Also offered as Feminist Studies 240. Students cannot receive credit for both courses.) Enrollment restricted to graduate students. Enrollment limited to 15.

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.

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.

128I. Race and 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. (Formerly Race and Criminal Justice) (Also offered as Sociology 128I. Students cannot receive credit for both courses.) Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 120.

132. California Water Law and Policy.

Explores the rich history and fundamental legal concepts surrounding water in California. Students identify, evaluate, and debate some critical water policy questions faced by Californians today and in the future. (Also offered as Politics 132. Students cannot receive credit for both courses.)

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.

173. International Law.

Origins and development of international law: international law is examined both as a reflection of the present world order and as a basis for transformation. Topics include jurisdiction and sovereignty, treaties, use of force, commercial law, and human rights. (Also offered as Politics 173. Students cannot receive credit for both courses.) Enrollment restricted to legal studies majors during priority enrollment period.

Linguistics

52. Syntax I.

An introduction to 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.)

80C. Language, Society, and Culture.

The study of language from a sociological perspective. Multilingualism, language change and variation, pidgins

and creoles, the origin and diversification of dialects. (General Education Code(s): T5-Humanities and Arts or Social Sciences.)

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 50. (General Education Code(s): W.)

120. Structure of English.

Survey of grammatical structure of English and terminology of grammatical description. Covers phonological, morphological, and syntactic structure of English and contrasts it with other languages. Prerequisite(s): course 52 or 55, and 101.

154. Language and Social Identity.

Introduction to sociolinguistics exploring the relationship between language and such social parameters as social status, ethnicity, race, gender, etc., including the role of language differences in the creation of social stereotypes. Emphasis on gathering, examining, and reporting data. Prerequisite(s): course 50. Enrollment restricted to senior language studies majors. Enrollment limited to 25.

157. Psycholinguistics and Linguistic Theory.

Theory and methods in psycholinguistics, covering perception, production, and acquisition of language and linguistic structure. A hands-on, laboratory-style introduction to the topic, focusing on the relation between experimental findings and linguistic theory. Students cannot receive credit for this course and course 257. Prerequisite(s): course 102 or 105 or 113 or 116. Enrollment restricted to linguistics and language studies majors. Enrollment limited to 20.

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.

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.

249. Morphology Seminar.

Presents theoretical and descriptive issues, particularly those raised by the framework of distributed morphol-

ogy and its current competitors. Course work consists of readings, squibs, and a term paper. Enrollment restricted to graduate students.

257. Psycholinguistics and Linguistic Theory.

Theory and methods in psycholinguistics, covering perception, production, and acquisition of language and linguistic structure. A hands-on, laboratory-style introduction to the topic, focusing on the relation between experimental findings and linguistic theory. Graduate students have separate evaluation criteria. Students cannot receive credit for this course and course 157. Enrollment restricted to graduate students.

Literature

61D. Introduction to Reading Drama.

Introduction to the Western theatrical tradition through the study of dramatic form in social context. (General Education Code(s): IH.)

80I. Topics in American Popular Culture.

History of one or more popular cultural genres in written, visual, and/or musical forms and their relation to ongoing public debates. (General Education Code(s): T4-Humanities and Arts.)

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) narrative theory; (S) authorship. 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 sections 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 by 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 by permission of instructor. May be repeated for credit. (General Education Code(s): A.)

English-Language Literatures

110I. American Prose: Modern and Contemporary Non-Fiction.

Explores the strands and streams of creative non-fiction in postwar American literature. Topics range from the "non-fiction novel" and "the New Journalism," to experiments in autobiography, media, art, and cultural criticism that make up the world of publishing today. Satisfies the English and Modern Literary Studies concentrations.

130B. English Drama: 1576–1642.

Study of representative plays. Topic: staging citizenship in English Renaissance drama. Satisfies the English and Pre- and Early Modern Studies Literature concentrations; also satisfies the Pre- and Early Modern distribution requirement

140C. The Films of John Carpenter.

Study of development and central themes of preeminent genre director of the "post-Hollywood" era, concentrating on central core of major works in horror/science fiction genres from Halloween to In the Mouth of Madness, with attention to the comedies and action films. Satisfies the English, Literature and Film, and Modern Literature concentrations.

150C. Asian American Literature.

Examination of Asian American literary works (fiction, poetry, dramatic essays) in the context of the historical presence of Asian Americans in the United States from the 1850s. Emphasis on comparison of select works from ethnic Asian writings. Satisfies the English and Modern Literature concentrations. (General Education Code(s): E.)

190F. Studies in U.S. Literature.

Intensive examination of issues in U.S. literature. Topic: Regions and Writers in California. Satisfies the English and Modern Literature concentrations; also satisfies the Senior Seminar distribution requirement. Prerequisite(s): Literature 101. Enrollment restricted to senior literature majors. May be repeated for credit.

French Literature

135. Author and Culture.

Speaking, reading, and writing proficiency in French required. Designed to provide an in-depth study of a given author's literary oeuvre and its cultural context. Topic: André Gide. Satisfies the French and Modern Literature concentrations. May be repeated for credit.

German Literature

159. *German Comedy.*

Speaking, reading, and writing proficiency in German required. A study of a series of comic works by authors writing in German. In addition to discussing the texts in depth, we also look at theories of humor and laughter developed by thinkers such as Freud, Schopenhauer, and Bergson. Satisfies the German and Modern concentrations. Offered in alternate academic years.

Greek Literature

103. *Greek Drama.*

Reading proficiency in Ancient Greek required. Topic: Euripides' *Orestes*. Satisfies the Greek and Pre- and Early Modern Studies Literature concentrations; also satisfies the Pre- and Early Modern Studies distribution requirement. May be repeated for credit.

Italian Literature

180. *Women in Italy: Nineteenth and Twentieth Centuries.*

Speaking, reading, and writing proficiency in Italian required. Explores the specificity of Italian women's writing and studies their literary activities in historical and social context. Readings include Italian feminist and some history as well as literary texts. Periods and readings may vary from year to year. Satisfies the Italian and Modern Literature concentrations.

Latin Literature

103. *Prose Authors.*

Reading proficiency in Latin required. Topic: Roman letters. Satisfies the Latin and Pre- and Early Modern Studies Literature concentrations; also satisfies the Pre- and Early Modern distribution requirement. May be repeated for credit.

Modern Literary Studies

144A. *Jewish Diaspora, Ethnicity, and Urban Life.*

Focuses on modern Jewish diaspora, ethnicity, and urban life. Satisfies the Modern Literature concentration. (General Education Code(s): E.)

145H. *Detective Fiction.*

Representative works of 19th- and 20th-century detective fiction, including works by Poe, Conan Doyle, Christie, Sayers, Hammett, Chandler, P.D. James, Paretsky, and others. Satisfies the English and Modern Literary Studies concentrations.

168D. *Germany in War and Peace.*

Study of selected texts reflecting German society at war or in that ambiguous state called "peace." Attention is given to the place of literature in German cultural life and its special role in the formation of national identity. Satisfies the Modern Literature concentration.

Pre- and Early Modern Literature

111. *Monsters, Barbarians, and Women: Topics in Ancient Ethnography.*

Focus is on the construction of race and gender in ancient Greek culture. Literary, historical, philosophical, dramatic, and medical texts (Homer, Hesiod, Herodotus, Euripides, Hippocrates, Plato, Aristotle) as well as visual media (vase painting, sculpture) are studied.

148. *The Beloved in Medieval Poetry.*

The figure of the Beloved is a medieval invention. Course traces its development from the Mozarabic *Jarchas* to

Petrarch, and includes Provençal Troubadours, German Minnesaenger, French Trouveres, the Spanish *Libro de Buen Amor*, and the *Romance of the Rose*. Satisfies the Pre- and Early Modern Literature concentrations; also satisfies the Poetry and Pre- and Early Modern distribution requirements.

190P. *Topics in Pre- and Early Modern Studies.*

Examination of individual authors or critical problems in ancient, medieval, or early modern/Renaissance literature. Topic: Jewish Mysticism. Satisfies the Pre- and Early Modern Literature concentration; also satisfies the Pre- and Early Modern and Senior Seminar distribution requirements. Prerequisite(s): Literature 101. Enrollment restricted to senior literature majors. May be repeated for credit.

Spanish/Latin American/Latino Literature

60. *Introduction to Literary Genres.*

Speaking, reading, and writing proficiency in Spanish required. The study of poetry, drama, and prose in Spain and Latin America. (General Education Code(s): IH, E.)

131D. *Chile.*

Speaking, reading, and writing proficiency in Spanish required. Examines narrative and poetry in Chile within the general context of the relationships between literature, nation, and representation. Satisfies the Modern, Spanish, and World Literature concentrations; also satisfies the Global Distribution requirement. (General Education Code(s): E.)

134M. *Modernidad y literatura: El Boom de la novela latinoamericana.*

Speaking, reading, and writing proficiency in Spanish required. Explores the relationships between literature and mass culture, modernization, and globalization through the study of the so-called Boom of Latin American narrative. Course satisfies the Modern, Spanish, and World Literature concentrations; also satisfies the Global distribution requirement. (General Education Code(s): E.)

230. *Citiscapes.*

Theories of space/place poetics and politics, and the literary and visual re-presentations of urban spaces in Latin/o America. Questions of identity and location in modernist poetics, and the ways difference (gender, ethnicity, and sexuality) inhabit and imagine the post-modern lettered city. Enrollment restricted to graduate students.

World Literature and Cultural Studies

109. *Topics in Cultural Studies.*

Studies in the theory of cultural studies. Topic: Plantations of Past and Present. Satisfies the Modern and World Literature concentrations; also satisfies the Global distribution requirement. May be repeated for credit. (General Education Code(s): E.)

150A. *Worldlings.*

How to think about the world as a whole: representations, networks, systems, taxonomies, versions of globalization. Topic: literary network systems. Satisfies the Modern and World Literature concentrations; also satisfies the Global requirement. May be repeated for credit.

190A. *Topics in World Literature and Cultural Studies.*

Topics: (F) Medieval Mediterranean; (S) Black Britain. Satisfies the Modern and World Literature concentrations; also satisfies the Global and Senior Seminar distribution requirements. "Medieval Mediterranean" additionally satisfies the Pre- and Early Modern Studies concentration

and distribution requirements; "Black Britain" additionally satisfies the English and Modern Literary Studies concentrations. Prerequisite(s): Literature 101. Enrollment restricted to senior literature majors. May be repeated for credit. (General Education Code(s): E.)

201. *Theory and Methods.*

Global theories of history and cultural production. Topics: (F) Approaches to World Literature; (S) Theory of Romance. Enrollment restricted to graduate students. May be repeated for credit.

209. *Topics in Cultural Studies.*

Topics: (F) Pacific Rim Discourse and the Literatures of Oceania; (W) Print Culture, Part I; (S) Print Culture, Part II. Enrollment in both quarters of "Print Culture" is recommended but not required. Winter and spring courses are taught in conjunction with LTEL 280. 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 differentia-

tion, 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. Prerequisite(s): course 2 or above, or placement exam score of 20 or higher. (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. 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 50.

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.

105A. Real Analysis.

The basic concepts of one-variable calculus are treated rigorously. Set theory, the real number system, numerical sequences and series, continuity, differentiation. 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.)

117. Advanced Linear Algebra.

Review of abstract vector spaces. Dual spaces, bilinear forms, and the associated geometry. Normal forms of linear mappings. Introduction to tensor products and exterior algebras. 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, Wedderburn's 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): courses 200, 201, and 202. Enrollment restricted to graduate students.

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. Enrollment restricted to graduate students.

207. Complex Analysis.

Holomorphic and harmonic functions, Cauchy's integral theorem, the maximum principle and its consequences, conformal mapping, analytic continuation, the Riemann mapping theorem. Prerequisite(s): Course 103 is recommended as preparation. Enrollment restricted to graduate students.

208. Manifolds I.

Definition of manifolds; the tangent bundle; the inverse 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.

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 106 and 107 are recommended as preparation. Enrollment restricted to graduate students.

214. Theory of Finite Groups.

Nilpotent groups, solvable groups, Hall subgroups, the

Frattini subgroup, the Fitting subgroup, the Schur-Zassenhaus theorem, fusion in p-subgroups, the transfer map, Frobenius theorem on normal p-complements. Prerequisite(s): Courses 200 and 201 recommended as preparation. Enrollment restricted to graduate students.

229. Kac-Moody Algebras.

Theory of Kac-Moody algebras and their representations. The Weil-Kac character formula. Emphasis on representations of affine superalgebras by vertex operators. Connections to combinatorics, PDE, the monster group. The Virasoro algebra. 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.

Microbiology and Environmental Toxicology

119. Microbiology.

Cell and molecular biology of bacteria and their viruses, including applications in medicine, public health, agriculture, and biotechnology. (Also offered as Biology: Molecular, Cell, and Developmental Biology 119. Students cannot receive credit for both courses.) Prerequisite(s): BIOL 100 or BIOC 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. (Also offered as Biology: Molecular, Cell, and Developmental Biology 119L. Students cannot receive credit for both courses.) Prerequisite(s): previous or concurrent enrollment in BIOL 119 is required; satisfaction of Entry Level Writing and Composition requirements. Enrollment restricted to biological sciences and affiliated majors; biology minors; other majors by permission. (General Education Code(s): W.)

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 work in collaborative teams to analyze each problem and create a proposal for a research plan/solution. Enrollment restricted to graduate students.

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.

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.

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 repertoire 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.)

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.) M. Ozgen

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. Classical Music from the Middle Ages to the Present.

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. (Formerly Introduction to Western Art Music.) (General Education

Code(s): IH, A.)

11B. Introduction to Jazz.

Designed to provide students with thorough and comprehensive background in history and roots of jazz as a musical style from its African roots to the present. Essential jazz styles and traditions are discussed through lectures, required listening, readings, lecture demonstrations, and film presentations. (General Education Code(s): IH, A, E.)

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 85 percent or higher. Enrollment limited to 60.

30L. Theory, Literature, and Musicianship I Laboratory (2 credits).

Keyboard (score-reading, figured-bass, progressions, chords) 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 course 30L. Concurrent enrollment in course 30L 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.

61. Individual Lessons: Half Hour (2 credits).

One-half hour of individual instrumental or vocal instruction. Repertory, technique, and performance practice. A minimum of six hours per week of individual practice is required. Concurrent enrollment in an ensemble in the lesson instrument or voice is required. Students are billed a course fee. Admission by audition with the instructor prior to first class meeting. See the enrollment conditions section of the quarterly Schedule of Classes. Enrollment priority given to music majors and minors. May be repeated for credit.

62. Individual Lessons: One Hour (3 credits).

One hour of individual instrumental or vocal instruction. Repertory, technique, and performance practice. A minimum of nine hours per week of individual practice is required. Concurrent enrollment in an ensemble in the lesson instrument or voice is required. Students are billed a course fee. Admission by audition with the instructor prior to first class meeting. See the enrollment conditions section of the quarterly Schedule of Classes. Enrollment priority given to music majors and minors. May be repeated for credit.

63. Group Instrumental and Vocal Lessons (2 credits).

Elementary group instruction in instrumental (excluding piano) or vocal techniques, including group and individual performance experience. A minimum of six hours per week of individual practice is required. Students are billed a course fee. Admission by audition with the instructor prior to first class meeting. See the enrollment conditions section of the quarterly Schedule of Classes. Enrollment limited to 6. May be repeated for credit.

75. Beginning Improvisational Theory.

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. (Formerly Jazz Theory I.) 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.)

80G. American Musical Theater.

Surveys American musicals from operetta through rock musicals with a historical approach focusing on selected examples from the literature. Music reading or musical experience helpful but not required. Offered in alternate academic years. (General Education Code(s): T4-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.)

111B. Seminar in Jazz Analysis.

Analytic exploration of the evolution of "jazz" in America. The process involves independent listening, analysis, transcription, weekly seminar discussions, and oral presentation to students in course 11B. Prerequisite(s): course 30B and course 11B. 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.

130. Orchestration.

A study of the nature of each instrument of the orchestra. Scoring for various small instrumental combinations, culminating in a transcription for full orchestra. Prerequisite(s): course 30C. Enrollment limited to 20.

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.)

161. Individual Lessons: One Hour (3 credits).

One hour of individual instrumental or vocal instruction. Repertory, technique, and performance practice. A minimum of nine hours per week of individual practice

is required. Concurrent enrollment in an ensemble in the lesson instrument or voice is required. Students are billed a course fee. Admission by audition with the instructor prior to first class meeting. See the enrollment conditions section of the quarterly Schedule of Classes. Enrollment priority given to music majors and minors. May be repeated for credit.

162. Advanced Individual Lessons: One Hour.

One hour of individual instruction for advanced students. Study of repertory, technique, and performance practice. A minimum of 18 hours per week of individual practice and at least one 30-minute recital are required. May be taken three times for credit. Concurrent enrollment in an ensemble in the lesson instrument or voice is required. Students are billed a course fee. Admission by juried audition. 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.

165. Chamber Music Workshop (2 credits).

A study of selected works for various small combinations of instruments, culminating in one or more public concerts. 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 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.

206B. Computer-Assisted Composition.

Study of techniques of algorithmic and computer-assisted composition in a variety of contemporary idioms. Topics may include stochastic methods, generative grammars, search strategies, and the construction of abstract compositional designs and spaces. Final project for course involves students formulating and algorithmically implementing their own theoretical assumptions and compositional strategies.

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.

253C. Music and Discourse.

Addresses both song and musical performance as modes of discourse. For song: musical and textual phrase and verse structures and their interrelationships. For musical performances: musical performance as rhetoric and emblem. Enrollment restricted to graduate students. Enrollment limited to 5.

254C. Performance Theory and Practice.

“Performance” can describe activities in the arts, humanities, and social sciences. Recognizing the mappings of this concept, this course examines selected performances and performative behavior through theoretical and critical lenses. Emphasis is on investigating the act and practice of musical performance in multicultural context, and on analyzing scholarly writing as performative discourse. Enrollment restricted to graduate students. Enrollment limited to 10.

267. Workshop in Computer Music and Visualization (2 credits).

Graduate-level techniques and procedures of computer music composition and visualization. Practical experience in the UCSC electronic music studio with computer composition systems and software, including visualization and interactive performance systems. Extensive exploration of music and interactive graphic programs such as Max/MSP/Jitter. Enrollment by permission of instructor; appropriate graduate experience required. Enrollment restricted to graduate students. Also offered as Digital Arts and New Media 267. Students cannot receive credit for both courses. (Also offered as Digital Arts and New Media 267. Students cannot receive credit for both courses.) Enrollment limited to 12. May be repeated for credit.

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; CO₂ and global change. Designed for beginning

graduate students in ocean sciences and upper-division science majors. Calculus and physics recommended as preparation.

280. Marine Geology.

Geology of the marine environment. Topics include controls on the types, origin, and distribution of marine sediments; geology of oceanic crust; evolution of continental margins and plate boundaries; introduction to paleoceanography. Students cannot receive credit for this course and Earth Sciences 102. Enrollment restricted to graduate students.

290J. Topics in Marine Organic Geochemistry.

Examines recent developments in uses of organic geochemistry to trace oceanographic and biogeochemical processes. Focuses on introduction to organic biomarkers, current literature, and evolving applications. Different topics and approaches emphasized from year to year. Prerequisite(s): previous course in marine (ocean) sciences and organic chemistry are recommended. Enrollment restricted to graduate students; seniors with instructor's permission. 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.)

22. Introduction to Ethical Theory.

A consideration of ethical issues and theories focusing on the foundation of moral value and the principles governing character and behavior. Designed to extend and develop the student's abilities in philosophical reasoning about ethics. (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.

Survey of ancient Greek philosophy of the Classical and Hellenistic periods. Begins with Socrates and the pre-Socratics, then undertakes an intensive study of Plato and Aristotle. Course then surveys the main developments that follow: Epicureanism, Stoicism, and Skepticism.

(General Education Code(s): W satisfied by taking this course and either course 93 or 94.) Prerequisite(s): course 9; courses 11 or 22 or 24 or 28 or any 80 course; and satisfaction of the Entry Level Writing and Composition requirements.

100A. Ancient Greek Philosophy.

Survey of ancient Greek philosophy of the Classical and Hellenistic periods. Begins with Socrates and the pre-Socratics, then undertakes an intensive study of Plato and Aristotle. Course then surveys the main developments that follow: Epicureanism, Stoicism, and Scepticism. (Formerly course 91.) (General Education Code(s): W satisfied by taking this course and either course 93 or 94.) Prerequisite(s): course 9; courses 11 or 22 or 24 or 28 or any 80 course; and satisfaction of the Entry Level Writing and Composition requirements.

107. Nineteenth-Century Philosophy.

A study of some European philosophers of the 19th century, with particular attention to Hegel, Schopenhauer, and Nietzsche. (Formerly course 108.) Prerequisite(s): course 91 or 93 or 94.

110. Heidegger.

A close study of early and late texts by Martin Heidegger, especially Being and Time. Prerequisite(s): course 91 or 93 or 94. Enrollment limited to 45.

114. Probability and Confirmation.

Studies the philosophical foundations of probability, induction, and confirmation. Different interpretations of probability studied, and solutions to various problems and paradoxes investigated. Students cannot receive credit for this course and course 214. Prerequisite(s): course 9, and course 91 or 93 or 94.

133. Philosophy of Mind.

Focuses on philosophical questions, both historical and contemporary, concerning the relation between body and mind. Particular attention is given to whether consciousness can be totally explained in physical terms. Prerequisite(s): course 91, 93, or 94.

171. Faith and Reason.

Recent work in analytic philosophy of religion, concentrating on traditional theism. Topics include arguments for and against the existence of God, religious experience, miracles, the relation of faith and reason, and problems such as freedom and divine foreknowledge. Prerequisite(s): course 9, and course 91 or 93 or 94.

190N. Philosophy of Religion.

An examination of recent work in philosophy of religion. The approach may vary between an analytic and continental approach in different years. Topics might include the rationality of belief in God, religious epistemology, hermeneutics, and religious experience. Prerequisite(s): course 171 and two from courses 91, 93, and 94. Enrollment limited to 20.

190V. Hermeneutics.

Intensive study of the tradition of philosophical hermeneutics, which is concerned with the theory of understanding and interpretation. Readings drawn from Martin Heidegger, Hans-Georg Gadamer, and possibly Paul Ricoeur. Prerequisite(s): two from courses 100A, 100B, and 100C. Enrollment limited to 12.

214. Probability and Confirmation.

Studies the philosophical foundations of probability, induction, and confirmation. Different interpretations of probability studied, and solutions to various problems and paradoxes investigated. Students cannot receive credit for this course and course 114. Enrollment restricted to

graduate students.

290G. Wittgenstein.

Focuses on the writings of the Austrian philosopher Ludwig Wittgenstein. Wittgenstein's work is typically divided into three periods: early, middle, and late. Topics covered include writings from one or more periods. Students cannot receive credit for this course and course 190G. Enrollment restricted to graduate students.

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. Students pay a course fee. 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. Students pay a course fee. 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. Students pay a course fee. 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 tests 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. Students pay a course fee. 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. Students pay a course fee. 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.

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. Students pay a course fee. 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. Students pay a course fee. 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. International Folk Dance (no credit).

Coeducational. International folk dance with an emphasis on Balkan and Israeli dances. Sections are also offered periodically in Mexican dance. Students pay a course fee.

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. Students pay a course fee. 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. Students pay a course fee.

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. Students pay a course fee.

30J. Fitness Activities: Strength Training (no credit).

Coeducational. An introduction to safe and effective methods of weight training and other personal conditioning activities. Topics covered include proper weight-training techniques, care of body and equipment, and elementary exercise physiology. Students pay a course fee. (Formerly Fitness Activities: Weight Training.)

30L. Fitness Activities: Yoga Exercises (no credit).

Coeducational. Sections offered at beginning, continuing beginning, and advanced beginning levels of Hatha Yoga. Students pay a course fee.

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. Students pay a course fee.

43G. Martial Arts: Tae Kwon Do (Karate) (no credit).

Coeducational. Sections offered at the beginning and intermediate/advanced levels. Covering basic skills, knowledge, and philosophy of Tae Kwon Do and providing instruction in the following aspects of martial arts study: fundamental techniques of self-defense, physical conditioning, emotional control, self-discipline, and self-confidence. Students pay a course fee. Enrollment limited to 35.

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.

5I. Introduction to Physics Honors I (2 credits).

Weekly 90-minute section covering advanced and modern topics. Topics may include the theory of relativity; complicated dynamics (air resistance, planetary dynamics, etc.); fallacies in perpetual-motion machines; the Euler disk and unusual tops; elasticity of materials applied to structures. Concurrent enrollment in course 5A is required.

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.

107. Introduction to Fluid Dynamics. Winter

Covers fundamental topics in fluid dynamics: Euler and Lagrange descriptions of continuum dynamics; conservation laws for inviscid and viscous flows; potential flows; exact solutions of the Navier-Stokes equation; boundary layer theory; gravity waves. Students cannot receive credit for this course and Applied Mathematics and Statistics 217. (Also offered as Applied Math and Statistics 107. Students cannot receive credit for both courses.) Prerequisite(s): courses 116A and 116B and 116C, or Applied Mathematics and Statistics 27 or 20 or 20A, or equivalent.

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.

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 thesis 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 electromagnetic 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.

220. Theory of Many-Body Physics.

Finite temperature Green functions, Feynman diagrams, Dyson equation, linked cluster theorem, Kubo formula for electrical conductivity, electron gas, random phase approximation, Fermi surfaces, Landau Fermi liquid theory, electron phonon coupling, Migdal's theorem, superconductivity. Prerequisite(s): courses 216 and 219. Enrollment restricted to graduate students only, except by permission of instructor. Offered in alternate academic years.

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

7. Politics of Religion.

Considers both the religious sources of political ideas and the political sources of religious ideas, addressing topics such as sovereignty, justice, love, reason, revelation, sacrifice, victimhood, evil, racism, rebellion, reconciliation, and human rights. (General Education Code(s): IS.)

117. 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.)

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.

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.

117. U.S. Telecommunications Law and Policy.

Surveys the U.S. telecommunications and broadcasting law and policy from the mid-19th century through the present. Offers a range of perspectives from the vantage point of the telecommunications industry, government, and the media-reform movement. Enrollment restricted to politics 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.

132. California Water Law and Policy.

Explores the rich history and fundamental legal concepts surrounding water in California. Students identify, evaluate, and debate some critical water policy questions faced by Californians today and in the future. (Also offered as Legal Studies 132. Students cannot receive credit for

both courses.)

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.

143. Foreign Relations of China.

Surveys China's foreign policy from 1949 to today, including the Korean War; Sino-Soviet ties; relations with the United States; tension with Taiwan; and China's rise to geopolitical prominence. Introduces the major theoretical approaches to international relations. Enrollment restricted to politics and politics/Latin America and Latino studies combined majors during priority enrollment.

160C. Security, Conflict, Violence, War.

Genesis and theories of conflict and war and their avoidance (past, present, future). Relationship between foreign policy and intra- and interstate conflict and violence. National security and the security dilemma. Non-violent conflict as a normal part of politics; violent conflict as anti-political; transformation of conflict into social and interstate violence. Interrelationships among conduct of war, attainment of political objectives, and the end of hostilities. Civil and ethnic wars. Political economy of violence and war. Enrollment restricted to politics and Latin American and Latino studies/politics combined majors during priority enrollment only.

173. International Law.

Origins and development of international law: international law is examined both as a reflection of the present world order and as a basis for transformation. Topics include jurisdiction and sovereignty, treaties, use of force, commercial law, and human rights. (Also offered as Legal Studies 173. Students cannot receive credit for both courses.) Enrollment restricted to politics and Latin American and Latino studies/politics majors during priority enrollment period.

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.

190L. Poverty Politics.

Examines theoretical, historical, and contemporary sources of poverty, politics, and policies in the U.S. Explores competing theories of the causes of poverty and the consequences of social provision. Focuses on successive historical reform efforts and contemporary dilemmas of race, gender, low-wage labor, and the politics of welfare reform. Enrollment restricted to senior politics and Latin American and Latino studies/politics combined 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.

200C. States and Political Institutions Core Seminar.

Introduces study of political institutions as instruments of collective decision making and action. Explores alternative theoretical approaches to development of political institutions, state and political economy, and security dilemmas. Enrollment restricted to graduate students. Enrollment limited to 15.

251. Discourse.

Utilizing a variety of approaches—discourse analysis, semiotics, critical theory, and linguistics—analyzes how language constructs the political world. Focuses on the symbolic mediation, normalization, and reproduction of power and subjugation present in the discourses through which they are apprehended and expressed. 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 Spanish Placement Examination score of 50.

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 prepsychology 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. Enrollment limited to 120.

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.

105. Children's Thinking.

Cognition in children from infancy through adolescence. Basic and current research on children's understanding of the social and physical world. Focus on major theoretical perspectives: Piaget's constructivist approach, information processing approach, and sociocultural approach. (Formerly course 117.) Prerequisite(s): courses 3 and 10.

119A. Development as a Sociocultural Process.

Examines theory and research in sociocultural approaches to how people (especially children) learn and develop through participating in activities of their communities with other people. Emphasizes the organization of social interactions and learning opportunities, especially in communities where schooling has not historically been prevalent. Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 100L.) Prerequisite(s): satisfaction of Entry Level Writing, Composition requirements; course 1, Anthropology 1 or 2, Education 92A, 92B, or 92C, Latin American and

Latino Studies 1, or Sociology 1. Enrollment restricted to seniors or permission of instructor. Enrollment limited to 30. (General Education Code(s): W.)

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.

121. Perception.

Basic perceptual psychology, emphasizing the relationships between perception and cognition. Topics include shape, color, and depth; hearing, taste, smell, and touch; and perceiving faces, voices, and language. Prerequisite(s): course 3 or Biology 70.

125. The Psychology of Language.

A study of human communication as a function of psychological, linguistic, and social factors. Topics covered include language comprehension and production, language and reasoning, and language as a social activity. Prerequisite(s): satisfaction of the Entry Level Writing and Composition requirements; course 3 or 20 or Linguistics 52 or 53 or 55. (General Education Code(s): W.)

127. Computer Mediated Communication.

Provides an introduction to perception and cognition as it relates to how people communicate with each other using computers and the Internet. Considers both cognitive/perceptual aspects as well as social aspects of communication and how computers enhance/constrain that communication. Prerequisite(s): course 3 or 20 or consent of instructor. Enrollment limited to 40.

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.

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.

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. Enrollment limited to 120. (General Education Code(s): E.)

149. Community Psychology: Transforming Communities.

Introduction to community psychology, a discipline that blends social psychology, sociology, and anthropology. Class topics include levels of analysis, ecologies, prevention, intervention, feminism, empowerment, sense of community, coalition building, and social justice and action. Prerequisite(s): course 3. Enrollment restricted to juniors and seniors.

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.

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.

159J. Social Psychology of Social Justice.

Why do some situations seem fair and others unfair? Are all people concerned with justice or are some scoundrels? This course looks at the principles of distributive, procedural, and retributive justice and at real world applications of theories. Satisfies seminar requirement. Satisfies senior comprehensive requirement. (Formerly course 155.) Enrollment restricted to senior 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.

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.

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.

214B. Advanced Multivariate Techniques for Psychology.

Provides introduction to factor analysis and structural equation modeling (SEM). Develop skills in defining, estimating, testing, and critiquing models. Topics include rationale of SEM, model identification, goodness of fit, and estimation. Learn how to use relevant software packages (SPSS, LISREL, EQS, and/or AMOS) to conduct exploratory and confirmatory factor analyses, path analyses, and full ("hybrid") analyses with latent variables. Prerequisite(s): course 214A. Offered in alternate academic years.

221. Visual Perception.

Seminar to study human perception, its methodology, and driving issues as illustrated by selected research topics (e.g., adaptation to unusual sensory environments). Where possible, parallels with other areas of psychology are drawn. Enrollment restricted to graduate students. Enrollment limited to 15.

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.

230. Research in Cognitive Psychology Seminar.

Seminar to study, critique, and develop research in per-

ception 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.

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.

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. A concurrent media lab is required. Enrollment restricted to social documentation graduate students. Enrollment limited to 15.

202. Practice of Social Documentary.

Introduction to social documentary genres including video, audio, and photography, which addresses 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.

204. Ways of Seeing and Hearing.

Graduate-level advanced seminar explores ways that seeing, hearing, and knowing are influenced by culture, power, race, and other factors. Readings emphasize how documentary subjects are constituted and known, addressing questions of epistemology, social constructivism, objectivity, and method. (Also offered as Digital Arts and New Media 204. Students cannot receive credit for both courses.) Enrollment restricted to social documentation and digital arts new media graduate students. Enrollment limited to 18.

290. Special Topics in Social Documentation.

Designed to provide supplemental instruction on specific topical and/or technical matters related to social documentation. Topics include technical standards and innovations within the field of social documentation, documentary subjects, and/or the work of individual professional documentarians. Enrollment restricted to graduate students majoring in social documentation. Enrollment limited to 15. May be repeated for credit.

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 Research 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. Required for and enrollment restricted to students participating in the UCDC Program. (Formerly UCDC Internship and Internship Seminar.) Enrollment limited to 22.

194B. UCDC Internship Seminar (7 credits).

A 30- to 36-hour-per-week internship in a Washington, D.C., government, non-profit, or private institution. Required for and enrollment restricted to UCDC program participants. (Formerly UCDC Internship and Internship Seminar.) Enrollment limited to 22. May be repeated for credit.

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.

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 juniors and seniors in 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.

116. Communication and Mass Media.

Examines media institutions, communication technologies, and their related cultural expressions. Focuses on specific ways the media—including media studies and criticism—operates as social and cultural factor. Contemporary theory or equivalent in related fields recommended. Enrollment restricted to upper-division students.

121. Sociology of Health and Medicine.

Analysis of the current health care “crises” and exploration of the social relationships and formal organizations which

constitute the medical institution. Study of the political, economic, and cultural factors which affect the recognition, distribution, and response to illness.

128I. Race and 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. (Formerly Race and Criminal Justice) (Also offered as Legal Studies 128I. Students cannot receive credit for both courses.) Enrollment restricted to sophomores, juniors, and seniors. Enrollment limited to 120.

144. Sociology of Women.

Analysis of the social significance and social production of gender. Some consideration of how sex differences have developed. Major emphasis on the impact of gender as a categorical imperative in the present social context. In this context, the course is also about sexual segregation, sexual inequality, and the dynamics of interpersonal power. Enrollment restricted to juniors and seniors. An introductory sociology course is recommended.

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.

154. Cross-National and Cross-Cultural Research.

Examines a variety of theoretical, methodological, and substantive approaches to cross-national and cross-cultural research. Focuses on the importance and variety of cross-national and cross-cultural studies. Prerequisite(s): one of the following: course 103B, 139, or 183. Enrollment limited to 20.

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.

156. U.S. Latino/a Identities: Centers and Margins.

Explores historical and contemporary constructions of Latina/o identities and experiences in U.S. Particular emphasis placed on transcultural social contexts, racial formations, and intersections with other identities including sexuality and gender. Enrollment restricted to juniors and seniors. Enrollment limited to 40. (General Education Code(s): E.)

169. Social Inequality.

A survey of theories and systems of social stratification focusing on such phenomena as race, class, power, and prestige. Enrollment restricted to juniors and seniors. (General Education Code(s): E.)

171. Exploring Global Inequality.

Seminar focusing on readings of key texts and recent research papers on several dimensions of global inequality (material, health, gender, cultural, migration) to find innovative ways of understanding the connections among different dimensions of inequality and of visualizing in-

equality in digital media. Collaborative interaction with Film Studies 177, Advanced Digital Media Workshop and Environmental Studies 155, Geographic Information Systems. Enrollment restricted to seniors. Enrollment limited to 25.

178. Sociology of Social Problems.

Views “problems” in society not as given but as social constructs. Examines the ways in which conditions in society become identified and defined as problems and consequences that follow from such a process.

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.

204. Methods of Quantitative Analysis.

Students are provided with intuitive explanation of fundamental concepts in statistics and learn how to use statistics to answer sociological questions. Experience and guidance in using computers to efficiently analyze data are provided. Enrollment restricted to graduate students in sociology and by permission number. Enrollment limited to 20.

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.

260. Culture, Knowledge, Power.

An introduction to theoretical approaches and exemplary studies of culture, knowledge, and power which critically interrogate the relationship between cultural formations and the production, circulation, and meaning of knowledges, materials, artifacts, and symbolic forms. Explores the concrete ways that power is organized and operates through different forms and sites, how it interpolates with other forms of power, and examines knowledges and culture as specific forms of power and sites of political struggle. Enrollment restricted to sociology graduate students. Enrollment limited to 15.

264. Science, Technology, and Medicine.

Explores social and cultural perspectives on science, technology, and medicine. Analyzes theoretical approaches that open up “black boxes” of scientific and biomedical knowledge, including the politics of bodies, objects, and health/illness. Links are made to medical sociology. 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.

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.)

156F. El humor en Español.

Topic-oriented language course on sociopolitical and historical issues as seen through humor in different genres and media. Topics include Mafalda and Condorito (comic strips), Rius (collage of comic strips, photographs and

original documents), Continflas and Almodovar (cinema), El Teatro Campesino (theater), Ana L., Vega (literature), Les Luthiers (song and music). Course deals with written and oral discourse pertaining to the following Spanish language varieties: Rio de la Plata, Mexican, Caribbean, U.S., and Peninsular. Intensive writing and speaking in Spanish. Prerequisite(s): courses 6, 56, Spanish for Spanish Speakers 63 or Spanish placement examination score of 70.

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 133 Humanities Building 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.)

21A. Acting Studio 1A: Psychological Realism.

Explores the fundamentals of the work of Konstantin Stanislavski as developed at the Moscow Art Theater to the works of his and our contemporary playwrights. Specifically, students apply those techniques of action, physical score, given circumstances, subtext, interior monologue, goals, and objectives, throughline, superobjective, and emotional recall to works of Henrik Ibsen, Anton Chekov, and appropriate American realists, such as Sam Shepard, August Wilson, etc. Enrollment by interview only: audition at first class meeting. Enrollment limited to 31. (General Education Code(s): A.)

14. Drawing.

A fundamental course in drawing from still life, the figure, and in the landscape. The approach is from the tonal and volumetric aspects of the object. Color is introduced as the course progresses. Instruction fashioned to the individual needs of the student. The inexperienced are welcomed as well as the experienced. Students are billed a materials fee. (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.)

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.)

36. Introduction to Dance Composition.

Composing solo dances using a variety of approaches for developing movement combinations. Observation and recognition of personal movement patterns and discovering new sources for creative material. Students are billed a materials fee. May be repeated for credit. (General Education Code(s): IH, 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.)

61B. Tragedy.

Ancient enmities; horrific acts of parricide; monumental errors; suffering and contrition. This course examines the enormous appeal of the ancient Greek tragic vision from its inception to its enthusiastic rediscovery during the European Renaissance. Enrollment limited to 40. (General Education Code(s): IH, A.)

80E. Stand-Up Comedy.

American comedy from Mark Twain to present, including popular humor, history, and politics, using comedy from the '20s through the women's gay and civil rights movements. Discussions are based on readings and videos of a wide variety of artists. Students present performances weekly. (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.)

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.)

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.)

161T. *Women in Theater.*

Explores 20th-century American female playwrights from textual, historical, and multicultural perspectives. The course progresses from *Trifles* (1916) through the Harlem Renaissance, Broadway's Lillian Hellman, and today's post-Feminist theatrical explosion in lectures, films, dramatizations, and award-winning playwrights' visits. (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.

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

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).*

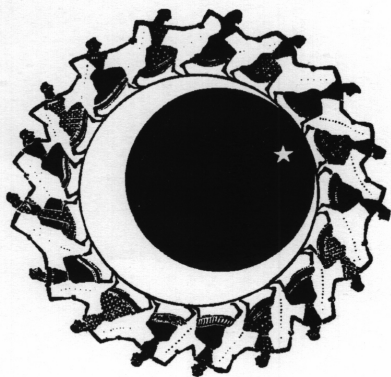
An introduction to theory and research on the composing process and practical strategies for teaching writing, especially in tutorial situations. Recommended for writing assistants. Prerequisite(s): instructor determination at first class meeting; course intended for writing tutors only. Enrollment limited to 30.

ADVERTISEMENT

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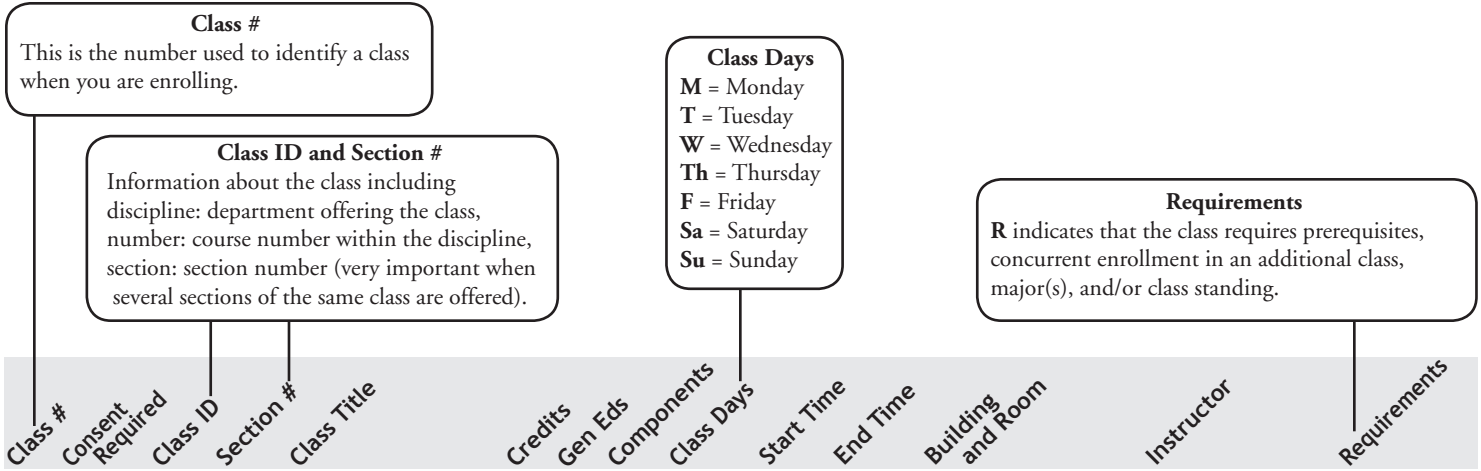


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Reading the Class Listings



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	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.

35395		CLEI-20D-01		CollegeStudentLives	2		SEM		**To Be Arranged**			Staff	R
30743		CLEI-80A-01		UD:Environ/Society	5	3CI	SEM	MWF	11:00A-12:10P		Eight Acad 250	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30745		CLEI-80A-02		UD:Environ/Society	5	3CI	SEM	MWF	12:30P-01:40P		Eight Acad 250	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30747		CLEI-80A-03		UD:Environ/Society	5	3CI	SEM	TTh	08:00A-09:45A		Eight Acad 252	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30749		CLEI-80A-04		UD:Environ/Society	5	3CI	SEM	TTh	10:00A-11:45A		Eight Acad 242	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30759		CLEI-80A-05		UD:Environ/Society	5	3CI	SEM	TTh	10:00A-11:45A		Eight Acad 250	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30761		CLEI-80A-06		UD:Environ/Society	5	3CI	SEM	TTh	12:00P-01:45P		Eight Acad 242	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30763		CLEI-80A-07		UD:Environ/Society	5	3CI	SEM	TTh	12:00P-01:45P		Eight Acad 250	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30765		CLEI-80A-08		UD:Environ/Society	5	3CI	SEM	MWF	09:30A-10:40A		Eight Acad 252	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30767		CLEI-80A-09		UD:Environ/Society	5	3CI	SEM	MWF	11:00A-12:10P		Eight Acad 252	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30769		CLEI-80A-10		UD:Environ/Society	5	3CI	SEM	MWF	12:30P-01:40P		Eight Acad 252	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30771		CLEI-80A-11		UD:Environ/Society	5	3CI	SEM	TTh	10:00A-11:45A		Eight Acad 252	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30773		CLEI-80A-12		UD:Environ/Society	5	3CI	SEM	TTh	12:00P-01:45P		Eight Acad 252	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
31565		CLEI-80A-13		UD:Environ/Society	5	3CI	SEM	TTh	02:00P-03:45P		Eight Acad 250	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
32291		CLEI-80A-14		UD:Environ/Society	5	3CI	SEM	TTh	02:00P-03:45P		Eight Acad 252	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
32293		CLEI-80A-15		UD:Environ/Society	5	3CI	SEM	MWF	11:00A-12:10P		Eight Acad 242	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
32295		CLEI-80A-16		UD:Environ/Society	5	3CI	SEM	MWF	02:00P-03:10P		Eight Acad 250	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30775		CLEI-80B-01		RI:EnvironmntSociety	5	3C2	SEM	MWF	09:30A-10:40A		Eight Acad 250	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
30777		CLEI-80B-02		RI:EnvironmntSociety	5	3C2	SEM	TTh	08:00A-09:45A		Eight Acad 250	Staff	R
								T	04:00P-05:45P		ClassroomUnit 002		
29297		CLEI-90-01		Garden Internship	1		SEM	T	04:00P-05:30P		Eight Garden	Calsoyas,C.	R
32627	Y	CLEI-170A-01		UC Sacramento Semnr	5		SEM		**To Be Arranged**			Dymski,G.	
32629	Y	CLEI-170B-01		UC Sacramento Intrn	5		FLD		**To Be Arranged**			Dymski,G.	
32631	Y	CLEI-170C-01		Law&Politics/Calif	5		SEM		**To Be Arranged**			Dymski,G.	

College Nine

Students who have not satisfied the Entry Level Writing requirement must enroll in course 80A by choosing a sections 01 through 10.

Students who have satisfied the Entry Level Writing requirement must enroll by choosing a section from 11 to 17.

30887		CLNI-80A-01		UD:Intl/Global Issues	5	3CI	SEM	TTh	10:00A-11:45A		Soc Sci 2 363	Staff	R
								Th	07:00P-09:00P		9/10 Multipurpose		
30889		CLNI-80A-02		UD:Intl/Global Issues	5	3CI	SEM	TTh	12:00P-01:45P		Soc Sci 2 363	Staff	R
								Th	07:00P-09:00P		9/10 Multipurpose		
30891		CLNI-80A-03		UD:Intl/Global Issues	5	3CI	SEM	TTh	02:00P-03:45P		Soc Sci 2 363	Staff	R
								Th	07:00P-09:00P		9/10 Multipurpose		
30893		CLNI-80A-04		UD:Intl/Global Issues	5	3CI	SEM	TTh	04:00P-05:45P		Soc Sci 2 363	Staff	R
								Th	07:00P-09:00P		9/10 Multipurpose		

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
30895	CLNI-80A-05	UD:Intl/Global Issues	5	3CI SEM	TTh	10:00A-11:45A					Soc Sci 1 149	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30897	CLNI-80A-06	UD:Intl/Global Issues	5	3CI SEM	TTh	12:00P-01:45P					Soc Sci 1 149	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30899	CLNI-80A-07	UD:Intl/Global Issues	5	3CI SEM	TTh	02:00P-03:45P					Soc Sci 1 149	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30901	CLNI-80A-08	UD:Intl/Global Issues	5	3CI SEM	TTh	04:00P-05:45P					Soc Sci 1 149	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
31577	CLNI-80A-09	UD:Intl/Global Issues	5	3CI SEM	TTh	10:00A-11:45A					Soc Sci 1 145	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
31579	CLNI-80A-10	UD:Intl/Global Issues	5	3CI SEM	TTh	12:00P-01:45P					Soc Sci 1 145	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
32369	CLNI-80A-11	UD:Intl/Global Issues	5	3CI SEM	TTh	02:00P-03:45P					Soc Sci 1 145	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
32523	CLNI-80A-12	UD:Intl/Global Issues	5	3CI SEM	TTh	04:00P-05:45P					Soc Sci 1 145	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
32527	CLNI-80A-13	UD:Intl/Global Issues	5	3CI SEM	TTh	10:00A-11:45A					Soc Sci 2 171	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
33683	CLNI-80A-14	UD:Intl/Global Issues	5	3CI SEM	TTh	02:00P-03:45P					Soc Sci 2 171	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
33685	CLNI-80A-15	UD:Intl/Global Issues	5	3CI SEM	TTh	04:00P-05:45P					Soc Sci 2 171	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30903	CLNI-80B-01	Rl:Intl/Global Issues	5	3C2 SEM	TTh	12:00P-01:45P					Soc Sci 2 171	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30905	CLNI-80B-02	Rl:Intl/Global Issues	5	3C2 SEM	TTh	02:00P-03:45P					Soc Sci 1 153	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
36564	CLNI-80B-03	Rl:Intl/Global Issues	5	3C2 SEM	TTh	04:00P-05:45P					Soc Sci 1 153	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
36312	CLNI-91-01	Global Issues	1	LEC	M	05:00P-06:45P					Soc Sci 2 179	Lipschutz,R.D.	

College Ten

Students who have not satisfied the Entry Level Writing Requirement must enroll in course 80A by choosing a section from 01 to 10.

Students who have satisfied the Entry Level Writing Requirement must enroll by choosing a section from 11 to 17.

30907	CLTE-80A-01	UD:Social Justice	5	3CI SEM	TTh	10:00A-11:45A					Soc Sci 2 141	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30909	CLTE-80A-02	UD:Social Justice	5	3CI SEM	TTh	12:00P-01:45P					Soc Sci 2 141	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30911	CLTE-80A-03	UD:Social Justice	5	3CI SEM	TTh	02:00P-03:45P					Soc Sci 2 141	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30913	CLTE-80A-04	UD:Social Justice	5	3CI SEM	TTh	04:00P-05:45P					Soc Sci 2 141	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30915	CLTE-80A-05	UD:Social Justice	5	3CI SEM	TTh	10:00A-11:45A					Soc Sci 2 159	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30917	CLTE-80A-06	UD:Social Justice	5	3CI SEM	TTh	12:00P-01:45P					Soc Sci 2 159	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30919	CLTE-80A-07	UD:Social Justice	5	3CI SEM	TTh	10:00A-11:45A					Soc Sci 2 165	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30921	CLTE-80A-08	UD:Social Justice	5	3CI SEM	TTh	12:00P-01:45P					Soc Sci 2 165	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30923	CLTE-80A-09	UD:Social Justice	5	3CI SEM	TTh	02:00P-03:45P					Soc Sci 2 165	Staff	R
						07:00P-09:00P					9/10 Multipurpose		
30925	CLTE-80A-10	UD:Social Justice	5	3CI SEM	TTh	04:00P-05:45P					Soc Sci 2 165	Staff	R
						07:00P-09:00P					9/10 Multipurpose		

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
31603	CLTE-80A-11	UD:Social Justice	5	3CI SEM TTh	10:00A-11:45A	Soc Sci 2 167	Staff	R					
					07:00P-09:00P	9/10 Multipurpose							
30927	CLTE-80A-12	UD:Social Justice	5	3CI SEM TTh	12:00P-01:45P	Soc Sci 2 167	Staff	R					
					07:00P-09:00P	9/10 Multipurpose							
30929	CLTE-80A-13	UD:Social Justice	5	3CI SEM TTh	02:00P-03:45P	Soc Sci 2 167	Staff	R					
					07:00P-09:00P	9/10 Multipurpose							
30931	CLTE-80B-01	Rl: Social Justice	5	3C2 SEM TTh	02:00P-03:45P	Soc Sci 2 159	Staff	R					
					07:00P-09:00P	9/10 Multipurpose							
30933	CLTE-80B-02	Rl: Social Justice	5	3C2 SEM TTh	04:00P-05:45P	Soc Sci 2 159	Staff	R					
					07:00P-09:00P	9/10 Multipurpose							
31631	CLTE-91-01	Intro Nuclear Policy	1	LEC W	05:00P-06:45P	Soc Sci 2 179	Hirsch,D.O.						
34199	CLTE-110-01	ServiceLearning	5	FLD Th	04:00P-05:30P	Soc Sci 2 137	Asher,A.	R					
<i>Contact aasher@ucsc.edu for more information on enrolling and and orientation sessions.</i>													
34201	CLTE-110B-01	ServiceLearning	2	FLD Th	04:00P-05:30P	Soc Sci 2 137	Asher,A.	R					
<i>Contact aasher@ucsc.edu for more information on enrolling and and orientation sessions.</i>													

Cowell College

All Cowell frosh must enroll in a section of Cowell 80A or 80B. Please refer to the core course information at <http://cowell.ucsc.edu/academics/core/>

30719	COWL-80A-01	UD: Imagining Justice	5	4CI SEM MWF	09:30A-10:40A	Cowell Acad 113	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30721	COWL-80A-02	UD: Imagining Justice	5	4CI SEM MWF	11:00A-12:10P	Cowell Acad 113	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30723	COWL-80A-03	UD: Imagining Justice	5	4CI SEM MWF	12:30P-01:40P	Cowell Acad 113	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30725	COWL-80A-04	UD: Imagining Justice	5	4CI SEM MWF	02:00P-03:10P	Cowell Acad 113	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30727	COWL-80A-05	UD: Imagining Justice	5	4CI SEM MWF	03:30P-04:40P	Cowell Acad 113	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30729	COWL-80A-06	UD: Imagining Justice	5	4CI SEM MWF	09:30A-10:40A	Cowell Com 134	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30731	COWL-80A-07	UD: Imagining Justice	5	4CI SEM MWF	11:00A-12:10P	Cowell Com 133	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30733	COWL-80A-08	UD: Imagining Justice	5	4CI SEM MWF	12:30P-01:40P	Cowell Com 134	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30735	COWL-80A-09	UD: Imagining Justice	5	4CI SEM MWF	02:00P-03:10P	Cowell Com 134	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30737	COWL-80A-10	UD: Imagining Justice	5	4CI SEM MWF	03:30P-04:40P	Cowell Com 133	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
31581	COWL-80A-11	UD: Imagining Justice	5	4CI SEM MWF	09:30A-10:40A	Cowell Acad 223	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
31583	COWL-80A-12	UD: Imagining Justice	5	4CI SEM MWF	11:00A-12:10P	Cowell Acad 223	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
32261	COWL-80A-13	UD: Imagining Justice	5	4CI SEM MWF	12:30P-01:40P	Cowell Acad 223	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
32263	COWL-80A-14	UD: Imagining Justice	5	4CI SEM MWF	02:00P-03:10P	Cowell Acad 223	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
32265	COWL-80A-15	UD: Imagining Justice	5	4CI SEM MWF	03:30P-04:40P	Cowell Acad 223	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30739	COWL-80B-01	Rl:Imagining Justice	5	4C2 SEM MWF	09:30A-10:40A	Cowell Com 133	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
30741	COWL-80B-02	Rl:Imagining Justice	5	4C2 SEM MWF	11:00A-12:10P	Cowell Com 134	Staff	R
					05:00P-06:45P	ClassroomUnit 002		
31057	COWL-80B-03	Rl:Imagining Justice	5	4C2 SEM MWF	12:30P-01:40P	Cowell Com 133	Staff	R
					05:00P-06:45P	ClassroomUnit 002		

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
33657		COWL-80B-04	RI:Imagining Justice		5	4C2 SEM	MWF		02:00P-03:10P		Cowell Com 133	Staff	R
							W		05:00P-06:45P		ClassroomUnit 002		
33659		COWL-80B-05	RI:Imagining Justice		5	4C2 SEM	MWF		03:30P-04:40P		Cowell Com 134	Staff	R
							W		05:00P-06:45P		ClassroomUnit 002		
		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	
		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

Students who have not satisfied the Entry Level Writing Requirement (ELWR) must enroll in course 80A sections 1-7. Students who have satisfied the ELWR but not satisfied the CI (composition) requirement must enroll in course 80A sections 8-18. Students who have satisfied the ELWR and the CI requirement should enroll in course 80B.

30689		CRWN-80A-01	UD:Ethical Issues		5	4CI SEM	MWF		12:30P-01:40P		Crown Clrm 201	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30691		CRWN-80A-02	UD:Ethical Issues		5	4CI SEM	MWF		11:00A-12:10P		Crown Clrm 201	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30693		CRWN-80A-03	UD:Ethical Issues		5	4CI SEM	MWF		09:30A-10:40A		Soc Sci 2 171	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30695		CRWN-80A-04	UD:Ethical Issues		5	4CI SEM	TTh		04:00P-05:45P		Crown Clrm 201	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30697		CRWN-80A-05	UD:Ethical Issues		5	4CI SEM	MW		05:00P-06:45P		Crown Clrm 201	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30699		CRWN-80A-06	UD:Ethical Issues		5	4CI SEM	TTh		10:00A-11:45A		Crown Clrm 201	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30701		CRWN-80A-07	UD:Ethical Issues		5	4CI SEM	TTh		04:00P-05:45P		Crown Clrm 202	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30703		CRWN-80A-08	UD:Ethical Issues		5	4CI SEM	TTh		02:00P-03:45P		Crown Clrm 201	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30705		CRWN-80A-09	UD:Ethical Issues		5	4CI SEM	MWF		02:00P-03:10P		Crown Clrm 203	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30707		CRWN-80A-10	UD:Ethical Issues		5	4CI SEM	TTh		04:00P-05:45P		Crown Clrm 203	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30709		CRWN-80A-11	UD:Ethical Issues		5	4CI SEM	TTh		10:00A-11:45A		Crown Clrm 203	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30711		CRWN-80A-12	UD:Ethical Issues		5	4CI SEM	MWF		02:00P-03:10P		Crown Clrm 202	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30713		CRWN-80A-13	UD:Ethical Issues		5	4CI SEM	MWF		11:00A-12:10P		Crown Clrm 202	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
31591		CRWN-80A-14	UD:Ethical Issues		5	4CI SEM	TTh		02:00P-03:45P		Crown Clrm 202	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
31593		CRWN-80A-15	UD:Ethical Issues		5	4CI SEM	MWF		09:30A-10:40A		Crown Clrm 202	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
31827		CRWN-80A-16	UD:Ethical Issues		5	4CI SEM	TTh		12:00P-01:45P		Crown Clrm 202	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
33749		CRWN-80A-17	UD:Ethical Issues		5	4CI SEM	TTh		10:00A-11:45A		Crown Clrm 202	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
30715	CRWN-80B-01	RI:Ethical Issues			5	4C2 SEM	MWF		09:30A-10:40A		Crown Clrm 203	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
30717	CRWN-80B-02	RI:Ethical Issues			5	4C2 SEM	TTh		02:00P-03:45P		Crown Clrm 203	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		
35639	CRWN-80B-03	RI:Ethical Issues			5	4C2 SEM	TTh		12:00P-01:45P		Crown Clrm 203	Staff	R
							T		06:00P-07:45P		ClassroomUnit 002		

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.

32511	KRSG-12A-01	Service Learning			3	SEM	T		06:00P-07:45P		Kresge Clrm 319	Williams,F.E.	R
35387	KRSG-65A-01	Pwr & Rep: Food			2	LAB	M		02:00P-04:45P		Kresge Rec 159	Shaw,D.M.	R
35389	KRSG-65B-01	Pwr & Rep: Photo			2	LAB	W		02:00P-03:45P		Kresge Rec 159	Graham,S.	R
35391	KRSG-65C-01	Pwr & Rep: Writ			2	LAB	Th		12:00P-01:45P		Kresge Rec 159	Fatemi,F.	R
30787	KRSG-80A-01	UD:Power&Represnt			5	5CI SEM	TTh		10:00A-11:45A		Kresge Clrm 319	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32299	KRSG-80A-01A	Discussion				DIS	F		09:30A-10:40A		Kresge Rec 159	Staff	
36419	KRSG-80A-01B	Discussion				DIS	F		11:00A-12:10P		Kresge Rec 159	Staff	
30789	KRSG-80A-02	UD:Power&Represnt			5	5CI SEM	TTh		02:00P-03:45P		Kresge Clrm 319	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32301	KRSG-80A-02A	Discussion				DIS	F		12:30P-01:40P		Kresge Rec 159	Staff	
36420	KRSG-80A-02B	Discussion				DIS	F		02:00P-03:10P		Kresge Rec 159	Staff	
30791	KRSG-80A-03	UD:Power&Represnt			5	5CI SEM	TTh		10:00A-11:45A		Kresge Clrm 323	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32303	KRSG-80A-03A	Discussion				DIS	F		02:00P-03:10P		TBA	Staff	
36421	KRSG-80A-03B	Discussion				DIS	F		03:30P-04:40P		Kresge Rec 159	Staff	
30793	KRSG-80A-04	UD:Power&Represnt			5	5CI SEM	TTh		02:00P-03:45P		Kresge Clrm 323	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32305	KRSG-80A-04A	Discussion				DIS	F		09:30A-10:40A		TBA	Staff	
36422	KRSG-80A-04B	Discussion				DIS	F		11:00A-12:10P		TBA	Staff	
30795	KRSG-80A-05	UD:Power&Represnt			5	5CI SEM	TTh		02:00P-03:45P		Kresge Clrm 325	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32307	KRSG-80A-05A	Discussion				DIS	F		12:30P-01:40P		TBA	Staff	
36423	KRSG-80A-05B	Discussion				DIS			03:30P-04:40P		TBA	Staff	
30797	KRSG-80A-06	UD:Power&Represnt			5	5CI SEM	TTh		04:00P-05:45P		Kresge Clrm 325	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32309	KRSG-80A-06A	Discussion				DIS	F		09:30A-10:40A		TBA	Staff	
36424	KRSG-80A-06B	Discussion				DIS	F		11:00A-12:10P		TBA	Staff	
30799	KRSG-80A-07	UD:Power&Represnt			5	5CI SEM	TTh		10:00A-11:45A		Kresge Acad 194	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32311	KRSG-80A-07A	Discussion				DIS	F		12:30P-01:40P		TBA	Staff	
36425	KRSG-80A-07B	Discussion				DIS	F		02:00P-03:10P		TBA	Staff	
30801	KRSG-80A-08	UD:Power&Represnt			5	5CI SEM	TTh		02:00P-03:45P		Kresge Acad 194	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32313	KRSG-80A-08A	Discussion				DIS	F		03:30P-04:40P		TBA	Staff	
36426	KRSG-80A-08B	Discussion				DIS	F		02:00P-03:10P		TBA	Staff	
30803	KRSG-80A-09	UD:Power&Represnt			5	5CI SEM	TTh		04:00P-05:45P		Kresge Acad 194	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32315	KRSG-80A-09A	Discussion				DIS	F		09:30A-10:40A		TBA	Staff	
36427	KRSG-80A-09B	Discussion				DIS	F		11:00A-12:10P		TBA	Staff	
30805	KRSG-80A-10	UD:Power&Represnt			5	5CI SEM	TTh		10:00A-11:45A		Kresge Clrm 325	Staff	R
							T		07:00P-09:00P		Media Theater M110		
32317	KRSG-80A-10A	Discussion				DIS	F		12:30P-01:40P		TBA	Staff	
36428	KRSG-80A-10B	Discussion				DIS	F		03:30P-04:40P		TBA	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
32297	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		
32319	KRSG-80A-11A	Discussion					DIS	F	09:30A-10:40A		TBA	Staff	
36429	KRSG-80A-11B	Discussion					DIS	F	02:00P-03:10P		TBA	Staff	
32365	KRSG-80A-12	UD:Power&Represent			5	5C1	SEM	TTh	10:00A-11:45A		Porter Acad 241	Staff	R
								T	07:00P-09:00P		Media Theater M110		
32367	KRSG-80A-12A	Discussion					DIS	F	02:00P-03:10P		TBA	Staff	
36430	KRSG-80A-12B	Discussion					DIS	F	03:30P-04:40P		TBA	Staff	
30807	KRSG-80B-01	Rl:Power&Representat			5	5C2	SEM	TTh	10:00A-11:45A		Kresge Rec 159	Staff	R
								T	07:00P-09:00P		Media Theater M110		
32321	KRSG-80B-01A	Discussion					DIS	F	09:30A-10:40A		TBA	Staff	
36440	KRSG-80B-01B	Discussion					DIS	F	11:00A-12:10P		TBA	Staff	
30809	KRSG-80B-02	Rl:Power&Representat			5	5C2	SEM	TTh	02:00P-03:45P		Kresge Rec 159	Staff	R
								T	07:00P-09:00P		Media Theater M110		
32323	KRSG-80B-02A	Discussion					DIS	F	12:30P-01:40P		TBA	Staff	
36441	KRSG-80B-02B	Discussion					DIS	F	03:30P-04:40P		TBA	Staff	
31119	KRSG-80B-03	Rl:Power&Representat			5	5C2	SEM	TTh	04:00P-05:45P		Kresge Rec 159	Staff	R
								T	07:00P-09:00P		Media Theater M110		
32325	KRSG-80B-03A	Discussion					DIS	F	09:30A-10:40A		Kresge Clrm 319	Staff	
36442	KRSG-80B-03B	Discussion					DIS	F	12:30P-01:40P		Kresge Clrm 319	Staff	
31819	KRSG-80B-04	Rl:Power&Representat			5	5C2	SEM	TTh	04:00P-05:45P		Kresge Clrm 319	Staff	R
								T	07:00P-09:00P		Media Theater M110		
32327	KRSG-80B-04A	Discussion					DIS	F	11:00A-12:10P		Kresge Clrm 319	Staff	
36443	KRSG-80B-04B	Discussion					DIS	F	02:00P-03:10P		Kresge Clrm 319	Staff	
20711	KRSG-80T-01	Power&Representation			5	5W	SEM	TTh	04:00P-05:45P		Eight Acad 242	Staff	R
								T	07:00P-09:00P		Media Theater M110		

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.

30671	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		
30673	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		
30675	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		
30677	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		
30679	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		
30681	MERR-80A-06	UD: Cultural IDs			5	3C1E	SEM	MWF	02:00P-03:10P		Merrill Acad 132	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002		
30683	MERR-80A-07	UD: Cultural IDs			5	3C1E	SEM	MWF	02:00P-03:10P		Merrill Acad 130	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002		
30685	MERR-80A-08	UD: Cultural IDs			5	3C1E	SEM	MWF	03:30P-04:40P		Merrill Acad 002	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002		
31741	MERR-80A-09	UD: Cultural IDs			5	3C1E	SEM	MWF	09:30A-10:40A		Merrill Acad 002	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002		
31743	MERR-80A-10	UD: Cultural IDs			5	3C1E	SEM	MWF	09:30A-10:40A		Merrill Acad 003	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002		
31749	MERR-80A-11	UD: Cultural IDs			5	3C1E	SEM	MWF	11:00A-12:10P		Merrill Acad 002	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002		
33785	MERR-80A-12	UD: Cultural IDs			5	3C1E	SEM	TTh	12:00P-01:45P		Merrill Acad 002	Staff	R
								W	07:00P-09:30P		ClassroomUnit 002		

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
34195		MERR-80A-13		UD: Cultural IDs	5	3C1E SEM	MWF		12:30P-01:40P		Merrill Acad 003	Staff	R
							W		07:00P-09:30P		ClassroomUnit 002		
36199		MERR-80A-14		UD: Cultural IDs	5	3C1E SEM	MWF		02:00P-03:10P		Merrill Acad 003	Staff	R
							W		07:00P-09:30P		ClassroomUnit 002		
30687		MERR-80B-01		RI:Cultural IDs&Glob	5	3C2E SEM	MWF		09:30A-10:40A		Merrill Acad 130	Staff	R
							W		07:00P-09:30P		ClassroomUnit 002		
31091		MERR-80B-02		RI:Cultural IDs&Glob	5	3C2E SEM	MWF		11:00A-12:10P		Merrill Acad 130	Staff	R
							W		07:00P-09:30P		ClassroomUnit 002		
31615		MERR-80B-03		RI:Cultural IDs&Glob	5	3C2E SEM	MWF		12:30P-01:40P		Merrill Acad 002	Staff	R
							W		07:00P-09:30P		ClassroomUnit 002		
34197		MERR-80B-04		RI:Cultural IDs&Glob	5	3C2E SEM	MWF		02:00P-03:10P		Merrill Acad 002	Staff	R
							W		07:00P-09:30P		ClassroomUnit 002		
31607		MERR-80L-01		Merrill Visual Lab	2	LAB			**To Be Arranged**			Gerster,C.J.	R
32279	Y	MERR-80X-01		UD: Cultrl IDs&GC	5	3C1E SEM	MWF		12:30P-01:40P		Merrill Acad 130	Staff	
							W		07:00P-09:30P		ClassroomUnit 002		
29359	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>									
32283	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.

24389	Y	OAKS-10-01		Academic Success	2	SEM	TTh		04:00P-05:45P		Oakes Acad 102	Aguirre,T.A.	
30865		OAKS-80A-01		UD: Values & Change	5	5C1E SEM	TTh		08:00A-09:45A		Oakes Acad 101	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30867		OAKS-80A-02		UD: Values & Change	5	5C1E SEM	TTh		10:00A-11:45A		Oakes Acad 101	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30869		OAKS-80A-03		UD: Values & Change	5	5C1E SEM	TTh		10:00A-11:45A		Oakes Acad 103	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30871		OAKS-80A-04		UD: Values & Change	5	5C1E SEM	TTh		12:00P-01:45P		Oakes Acad 103	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30873		OAKS-80A-05		UD: Values & Change	5	5C1E SEM	TTh		12:00P-01:45P		Oakes Acad 101	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30875		OAKS-80A-06		UD: Values & Change	5	5C1E SEM	TTh		02:00P-03:45P		Oakes Acad 101	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30877		OAKS-80A-07		UD: Values & Change	5	5C1E SEM	MWF		09:30A-10:40A		Oakes Acad 103	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30879		OAKS-80A-08		UD: Values & Change	5	5C1E SEM	MWF		11:00A-12:10P		Oakes Acad 103	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30881		OAKS-80A-09		UD: Values & Change	5	5C1E SEM	MWF		12:30P-01:40P		Oakes Acad 103	Staff	R
							W		07:00P-10:00P		Media Theater M110		
30883		OAKS-80A-10		UD: Values & Change	5	5C1E SEM	TTh		10:00A-11:45A		Oakes Acad 102	Staff	R
							W		07:00P-10:00P		Media Theater M110		
31587		OAKS-80A-11		UD: Values & Change	5	5C1E SEM	TTh		12:00P-01:45P		Oakes Acad 102	Staff	R
							W		07:00P-10:00P		Media Theater M110		
31589		OAKS-80A-12		UD: Values & Change	5	5C1E SEM	TTh		02:00P-03:45P		Oakes Acad 102	Staff	R
							W		07:00P-10:00P		Media Theater M110		
32289		OAKS-80A-13		UD: Values & Change	5	5C1E SEM	MWF		11:00A-12:10P		Oakes Acad 101	Staff	R
							W		07:00P-10:00P		Media Theater M110		
32329		OAKS-80A-14		UD: Values & Change	5	5C1E SEM	MWF		09:30A-10:40A		Oakes Acad 102	Staff	R
							W		07:00P-10:00P		Media Theater M110		
33941		OAKS-80A-15		UD: Values & Change	5	5C1E SEM	MWF		11:00A-12:10P		Oakes Acad 102	Staff	R
							W		07:00P-10:00P		Media Theater M110		
35423		OAKS-80A-16		UD: Values & Change	5	5C1E SEM	MWF		12:30P-01:40P		Oakes Acad 102	Staff	R
							W		07:00P-10:00P		Media Theater M110		

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
36302		OAKS-80A-17		UD: Values & Change	5	5C1E	SEM	MWF	02:00P-03:10P		Oakes Acad 102	Staff	R
								W	07:00P-10:00P		Media Theater M110		
36490		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		
30885		OAKS-80B-01		RI: Values and Change	5	5C2E	SEM	TTh	12:00P-01:45P		Oakes Acad 106	Staff	R
								W	07:00P-10:00P		Media Theater M110		

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.

35021		PRTR-22A-01		Day Of The Dead	2	A	SEM	TTh	02:00P-03:45P		Porter Acad 249	Sanchez,E.A.	
36505		PRTR-33-01		Seminar In Arts	2	A	SEM	TTh	10:00A-11:45A		Porter Acad 245	Staff	
30839		PRTR-80A-01		UD: Writing/Arts	5	4C1	SEM	MWF	11:00A-12:10P		Porter Acad 222	Arnett,J.M.	R
								Th	07:00P-10:00P		Media Theater M110		
30841		PRTR-80A-02		UD: Writing/Arts	5	4C1	SEM	MWF	12:30P-01:40P		Porter Acad 241	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
30843		PRTR-80A-03		UD: Writing/Arts	5	4C1	SEM	MWF	12:30P-01:40P		Porter Acad 246	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
30845		PRTR-80A-04		UD: Writing/Arts	5	4C1	SEM	MWF	11:00A-12:10P		Porter Acad 250	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
30847		PRTR-80A-05		UD: Writing/Arts	5	4C1	SEM	MWF	11:00A-12:10P		Porter Acad 241	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
30849		PRTR-80A-06		UD: Writing/Arts	5	4C1	SEM	MWF	09:30A-10:40A		Porter Acad 246	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
33789		PRTR-80A-07		UD: Writing/Arts	5	4C1	SEM	MWF	11:00A-12:10P		Porter Acad 246	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
33791		PRTR-80A-08		UD: Writing/Arts	5	4C1	SEM	MWF	09:30A-10:40A		Porter Acad 241	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
34071		PRTR-80A-09		UD: Writing/Arts	5	4C1	SEM	MWF	02:00P-03:10P		Porter Acad 241	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
36181		PRTR-80A-10		UD: Writing/Arts	5	4C1	SEM	MWF	09:30A-10:40A		Porter Acad 250	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
36182		PRTR-80A-11		UD: Writing/Arts	5	4C1	SEM	MWF	02:00P-03:10P		Porter Acad 246	Todd,J.A.	R
								Th	07:00P-10:00P		Media Theater M110		
36183		PRTR-80A-12		UD: Writing/Arts	5	4C1	SEM	MWF	03:30P-04:40P		Porter Acad 241	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
36184		PRTR-80A-13		UD: Writing/Arts	5	4C1	SEM	MWF	03:30P-04:40P		Porter Acad 250	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
36185		PRTR-80A-14		UD: Writing/Arts	5	4C1	SEM	MWF	12:30P-01:40P		Porter Acad 250	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
30851		PRTR-80B-01		RI:WritingAcrossArts	5	4C2	SEM	MWF	09:30A-10:40A		Porter Acad 249	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
30853		PRTR-80B-02		RI:WritingAcrossArts	5	4C2	SEM	MWF	11:00A-12:10P		Porter Acad 249	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
30855		PRTR-80B-03		RI:WritingAcrossArts	5	4C2	SEM	MWF	12:30P-01:40P		Porter Acad 249	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
32361		PRTR-80B-04		RI:WritingAcrossArts	5	4C2	SEM	MWF	02:00P-03:10P		Porter Acad 249	Staff	R
								Th	07:00P-10:00P		Media Theater M110		
35479		PRTR-80B-05		RI:WritingAcrossArts	5	4C2	SEM	MWF	03:30P-04:40P		Porter Acad 249	Giges,R.E.	R
								Th	07:00P-10:00P		Media Theater M110		
31039		PRTR-80L-01		Document Oral Hist	5	5A	SEM	MWF	02:00P-03:10P		TA Offices J102	Beal,T.	
33787		PRTR-121D-01		Sundanese Gamelan	2	A	STU	T	02:00P-04:00P		Gamelan Stu 230B	Sumarna,U.	
26329	Y	PRTR-180-01		Pedagogical Practic	5		SEM	T	04:00P-05:45P		Porter Acad 241	Giges,R.E.	

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.

30811	STEV-80A-01	UD:Self & Society			5	5CI SEM	MWF		09:30A-10:40A		Steven Acad 151	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30813	STEV-80A-02	UD:Self & Society			5	5CI SEM	MWF		12:30P-01:40P		Steven Acad 151	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30815	STEV-80A-03	UD:Self & Society			5	5CI SEM	MWF		09:30A-10:40A		Steven Acad 152	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30817	STEV-80A-04	UD:Self & Society			5	5CI SEM	MWF		12:30P-01:40P		Steven Acad 152	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30819	STEV-80A-05	UD:Self & Society			5	5CI SEM	MWF		09:30A-10:40A		Cowell Acad 222	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30821	STEV-80A-06	UD:Self & Society			5	5CI SEM	MWF		12:30P-01:40P		Cowell Acad 222	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30823	STEV-80A-07	UD:Self & Society			5	5CI SEM	TTh		10:00A-11:45A		Steven Acad 151	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30825	STEV-80A-08	UD:Self & Society			5	5CI SEM	TTh		12:00P-01:45P		Steven Acad 151	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30827	STEV-80A-09	UD:Self & Society			5	5CI SEM	TTh		02:00P-03:45P		Steven Acad 151	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30829	STEV-80A-10	UD:Self & Society			5	5CI SEM	TTh		04:00P-05:45P		Steven Acad 151	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30831	STEV-80A-11	UD:Self & Society			5	5CI SEM	TTh		10:00A-11:45A		Steven Acad 152	Staff	R
							M		07:00P-09:00P		Steven Din 180		
31595	STEV-80A-12	UD:Self & Society			5	5CI SEM	TTh		12:00P-01:45P		Steven Acad 152	Staff	R
							M		07:00P-09:00P		Steven Din 180		
31597	STEV-80A-13	UD:Self & Society			5	5CI SEM	TTh		02:00P-03:45P		Steven Acad 152	Staff	R
							M		07:00P-09:00P		Steven Din 180		
31863	STEV-80A-14	UD:Self & Society			5	5CI SEM	TTh		04:00P-05:45P		Steven Acad 152	Staff	R
							M		07:00P-09:00P		Steven Din 180		
33793	STEV-80A-15	UD:Self & Society			5	5CI SEM	TTh		10:00A-11:45A		StevenFire 177	Staff	R
							M		07:00P-09:00P		Steven Din 180		
33795	STEV-80A-16	UD:Self & Society			5	5CI SEM	TTh		12:00P-01:45P		Cowell Acad 216	Staff	R
							M		07:00P-09:00P		Steven Din 180		
34203	STEV-80A-17	UD:Self & Society			5	5CI SEM	TTh		02:00P-03:45P		StevenFire 177	Staff	R
							M		07:00P-09:00P		Steven Din 180		
34205	STEV-80A-18	UD:Self & Society			5	5CI SEM	TTh		04:00P-05:45P		Cowell Acad 216	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30833	STEV-80B-01	Rl:Self & Society			5	5C2 SEM	TTh		10:00A-11:45A		StevenAcad 131	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30835	STEV-80B-02	Rl:Self & Society			5	5C2 SEM	TTh		12:00P-01:45P		Cowell Acad 223	Staff	R
							M		07:00P-09:00P		Steven Din 180		
30837	STEV-80B-03	Rl:Self & Society			5	5C2 SEM	TTh		02:00P-03:45P		Cowell Acad 216	Staff	R
							M		07:00P-09:00P		Steven Din 180		
34207	STEV-80B-04	Rl:Self & Society			5	5C2 SEM	MWF		02:00P-03:10P		Steven Acad 151	Staff	R
							M		07:00P-09:00P		Steven Din 180		
36176	STEV-80H-01	Rainbow Theater			5	4E SEM			**To Be Arranged**			Staff	

American Studies

34075	AMST-10-01	Intro Amer Studies			5	HE LEC	MWF		02:00P-03:10P		ClassroomUnit 001	Ramirez,C.S.	
		<i>Enroll in lecture and associated discussion section</i>											
34123	AMST-10-01A	Discussion				DIS	M		05:00P-06:10P		Oakes Acad 103	Staff	
34125	AMST-10-01B	Discussion				DIS	M		06:30P-07:40P		Oakes Acad 103	Staff	
34127	AMST-10-01C	Discussion				DIS	T		08:30A-09:40A		Cowell Acad 223	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
34129		AMST-10-01D		Discussion		DIS	T		02:00P-03:10P		Oakes Acad 103	Staff	
34131		AMST-10-01E		Discussion		DIS	W		12:30P-01:40P		Crown Clrm 202	Staff	
34133		AMST-10-01F		Discussion		DIS	Th		08:30A-09:40A		Crown Clrm 203	Staff	
34135		AMST-10-01G		Discussion		DIS	Th		06:00P-07:10P		Cowell Acad 223	Staff	
34137		AMST-10-01H		Discussion		DIS	Th		07:30P-08:40P		Cowell Acad 223	Staff	
34175		AMST-80F-01		US Popular Cultures	5	5	LEC	TTh	02:00P-03:45P		Music Center 101	Staff	
34239		AMST-113A-01		Imagining America	5		LEC	MW	07:00P-08:45P		Cowell Com 134	Staff	
35936		AMST-114A-01		Poli & Amer Culture	5		SEM	TTh	06:00P-07:45P		Cowell Com 134	Staff	R
35938		AMST-125A-01		Afro-Amer Culture	5	E	LEC	TTh	04:00P-05:45P		Hum & Soc Sci 250	Staff	
36486		AMST-157-01		Sexual Identities	5		LEC	MWF	12:30P-01:40P		Oakes Acad 106	Staff	
35941		AMST-188-01		9/11	5		SEM	TTh	10:00A-11:45A		Oakes Acad 106	Porter,E.C.	
35942		AMST-190C-01		Debate Amer Culture	5		SEM	TTh	12:00P-01:45P		Hum & Soc Sci 250	Ramirez,R.K.	R

Anthropology

10423		ANTH-1-01		Intr Humn Evolution	5	N	LEC	TTh	08:00A-09:45A		Humn Lecture 206	Zihlman,A.L.	
<i>Enroll in lecture and associated discussion section</i>													
10425		ANTH-1-01A		Discussion			DIS	M	09:30A-10:40A		Soc Sci I 317	Staff	
10427		ANTH-1-01B		Discussion			DIS	M	11:00A-12:10P		Soc Sci I 317	Staff	
10429		ANTH-1-01C		Discussion			DIS	M	12:30P-01:40P		Soc Sci I 317	Staff	
10431		ANTH-1-01D		Discussion			DIS	M	02:00P-03:10P		Soc Sci I 317	Staff	
10433		ANTH-1-01E		Discussion			DIS	M	05:00P-06:10P		Soc Sci I 317	Staff	
10435		ANTH-1-01F		Discussion			DIS	M	06:30P-07:40P		Soc Sci I 317	Staff	
10437		ANTH-1-01G		Discussion			DIS	T	10:00A-11:10A		Soc Sci I 317	Staff	
10439		ANTH-1-01H		Discussion			DIS	T	12:00P-01:10P		Soc Sci I 317	Staff	
10441		ANTH-1-01I		Discussion			DIS	T	02:00P-03:10P		Soc Sci I 317	Staff	
10443		ANTH-1-01J		Discussion			DIS	T	04:00P-05:10P		Soc Sci I 317	Staff	
10445		ANTH-1-01K		Discussion			DIS	T	06:00P-07:10P		Soc Sci I 317	Staff	
10447		ANTH-1-01L		Discussion			DIS	W	08:00A-09:10A		Soc Sci I 317	Staff	
10449		ANTH-1-01M		Discussion			DIS	W	09:30A-10:40A		Soc Sci I 317	Staff	
10451		ANTH-1-01N		Discussion			DIS	W	11:00A-12:10P		Soc Sci I 317	Staff	
10453		ANTH-1-01O		Discussion			DIS	W	02:00P-03:10P		Soc Sci I 317	Staff	
10455		ANTH-1-01P		Discussion			DIS	W	03:30P-04:40P		Soc Sci I 317	Staff	
10457		ANTH-1-01Q		Discussion			DIS	W	05:00P-06:10P		Soc Sci I 317	Staff	
10459		ANTH-1-01R		Discussion			DIS	W	06:30P-07:40P		Soc Sci I 317	Staff	
36020		ANTH-80G-01		Barrio Pop Culture	5	3E	LEC	MWF	09:30A-10:40A		Soc Sci I 110	Najera Ramirez,O.	
32867		ANTH-80P-01		India Diaspora Film	5	3E	LEC	TTh	04:00P-05:45P		Soc Sci I 110	Pandey,A.D.	
<i>Enroll in lecture and associated discussion section</i>													
								Th	06:00P-09:00P		Soc Sci I 110		
								Th	06:00P-09:00P		Soc Sci I 110		
32869		ANTH-80P-01A		Discussion			DIS	M	05:00P-06:10P		Soc Sci I 149	Staff	
32871		ANTH-80P-01B		Discussion			DIS	M	07:30P-08:40P		Soc Sci I 149	Staff	
32873		ANTH-80P-01C		Discussion			DIS	W	08:00A-09:10A		Soc Sci I 153	Staff	
30939		ANTH-81A-01		Mexican Folk Dance	2	A	STU	M	06:30P-08:00P		E Fieldhouse	Najera Ramirez,O.	
<i>Also offered as LALS 81A</i>													
								F	05:00P-08:00P		E Fieldhouse		
								Su	04:00P-07:00P		E Fieldhouse		
36021		ANTH-102A-01		Human Skeletal Biol	5		LEC	TTh	12:00P-01:45P		Soc Sci I 461	Staff	R
36022		ANTH-112-01		Life Cycles	5		LEC	MWF	11:00A-12:10P		Soc Sci 2 179	Staff	R
36023		ANTH-120-01		Culture in Film	5		LEC	MW	05:00P-06:45P		Soc Sci I 110	Errington,S.E.	R
36024	Y	ANTH-120L-01		Culture in Film Lab	2		LAB	T	10:00A-11:45A		Soc Sci 2 047	Errington,S.E.	
<i>Concurrent enrollment in ANTH 120 is required</i>													
36025	Y	ANTH-120L-02		Culture in Film Lab	2		LAB	W	02:00P-03:45P		Soc Sci 2 047	Errington,S.E.	
<i>Concurrent enrollment in ANTH 120 is required</i>													
36027		ANTH-127-01		Capitalism Ethnogra	5		LEC	TTh	02:00P-03:45P		PhysSciences 130	Rofel,L.B.	
36028		ANTH-130B-01		Brazil	5	E	LEC	MWF	02:00P-03:10P		Soc Sci 2 179	Linger,D.T.	
36029		ANTH-130F-01		AfricanDiaspsAmericas	5	E	LEC	MW	05:00P-06:45P		Porter Acad 144	Anderson,M.D.	
36030		ANTH-133-01		Narr of the Popular	5		LEC	MWF	12:30P-01:40P		Soc Sci 2 179	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
36041		ANTH-134-01		Intro Medical Anthro	5	LEC	TTh		10:00A-11:45A		Soc Sci I 110	Wolf-Meyer,M.J.	
		<i>Enroll in lecture and associated discussion section</i>											
36042		ANTH-134-01A		Discussion		DIS	T		06:00P-07:10P		Soc Sci I 153	Staff	
36043		ANTH-134-01B		Discussion		DIS	T		07:30P-08:40P		Soc Sci I 153	Staff	
36044		ANTH-134-01C		Discussion		DIS	Th		08:30A-09:40A		Soc Sci I 153	Staff	
36032		ANTH-138-01		Political Anthro	5	LEC	MWF		02:00P-03:10P		Engineer 2 192	Staff	
		<i>Also offered as LGST 138</i>											
33953		ANTH-145X-01		Socio-Cultural Anth	5	LEC	TTh		12:00P-01:45P		PhysSciences 130	Hackman,M.J.	
36034		ANTH-155-01		Cultural Encounters	5	LEC	TTh		04:00P-05:45P		Crown Clrm 208	Staff	R
36035		ANTH-159-01		Race & Anthropology	5	LEC	MWF		11:00A-12:10P		Soc Sci I 110	Anderson,M.D.	
10469		ANTH-170-01		His Archaeol Theory	5	W	LEC	TTh	10:00A-11:45A		Hum & Soc Sci 350	Gifford-Gonzalez,D.	R
36036		ANTH-172-01		Archaeol Res Design	5	W	LEC	TTh	04:00P-05:45P		Eight Acad 252	Staff	R
36037		ANTH-176A-01		No American Archlgy	5		LEC	MWF	09:30A-10:40A		Soc Sci 2 179	Boone,C.M.	R
36065		ANTH-180-01		Ceramic Analysis	5		LEC	MW	05:00P-06:45P		Soc Sci I 451	Habicht Mauche,J.A.	R
		<i>Concurrent enrollment in ANTH 180L is required; taught in conjunction with ANTH 280</i>											
36066		ANTH-180L-01		Ceramic Analys Lab	2		LAB	T	02:00P-05:00P		Soc Sci I 451	Habicht Mauche,J.A.	R
		<i>Concurrent enrollment in ANTH 180 is required; taught in conjunction with ANTH 280L</i>											
36566		ANTH-194G-01		Politics/Secularism	5	W	SEM	T	04:00P-07:00P		Soc Sci 2 137	Staff	R
36038		ANTH-194X-01		Wom/Poli:3d Wor Per	5	W	SEM	Th	04:00P-07:00P		Hum & Soc Sci 350	Kramer,A.L.	R
36039		ANTH-194Y-01		Arch Space/Landscape	5	W	SEM	TTh	08:00A-09:45A		Soc Sci 2 171	Monroe,J.C.	R
31945		ANTH-200A-01		Core Graduate Course	10		SEM	MW	12:00P-03:00P		Soc Sci I 414	Brenneis,D.L.	R
		<i>Caldwell,M.L.</i>											
10757		ANTH-228-01		Grant Writing	5		SEM	M	08:00A-11:00A		Soc Sci I 414	Linger,D.T.	R
31343		ANTH-270-01		His Archaeol Theory	5		LEC	Th	12:30P-03:30P		Soc Sci I 414	Monroe,J.C.	R
36067		ANTH-280-01		AdvCeramicAnalysis	5		SEM	MW	05:00P-06:45P		Soc Sci I 451	Habicht Mauche,J.A.	R
		<i>Concurrent enrollment in ANTH 280L is required; taught in conjunction with ANTH 180</i>											
36068		ANTH-280L-01		CeramicAnalysisLab	2		SEM	T	02:00P-05:00P		Soc Sci I 451	Habicht Mauche,J.A.	R
		<i>Concurrent enrollment in ANTH 280 is required; taught in conjunction with ANTH 180L</i>											
10759		ANTH-292-01		Graduate Colloquim	2		SEM	M	03:30P-05:00P		Soc Sci I 261	Brenneis,D.L.	R
Applied Mathematics and Statistics													
35916		AMS-2-01		Pre-Statistics	5	Q	LEC	TTh	02:00P-03:45P		Thim Lecture 001	Staff	R
		<i>Enroll in lecture and associated discussion section</i>											
35917		AMS-2-01A		Discussion			DIS	T	08:30A-09:40A		N. Sci Annex 102	Staff	
35918		AMS-2-01B		Discussion			DIS	W	08:00A-09:10A		J Baskin Engr 165	Staff	
35919		AMS-2-01C		Discussion			DIS	Th	12:00P-01:10P		J Baskin Engr 372	Staff	
29363		AMS-3-01		Precalculus	5	Q	LEC	MWF	08:00A-09:10A		J Baskin Engr 152	Garaud,P.	R
		<i>Enroll in lecture and associated discussion section</i>											
29365		AMS-3-01A		Discussion			DIS	MW	07:00P-08:10P		N. Sci Annex 102	Staff	
29367		AMS-3-01B		Discussion			DIS	MF	12:30P-01:40P		J Baskin Engr 372	Staff	
29369		AMS-3-01C		Discussion			DIS	TTh	06:00P-07:10P		J Baskin Engr 372	Staff	
35803		AMS-3-01D		Discussion			DIS	TTh	07:30P-08:40P		J Baskin Engr 372	Staff	
35920		AMS-3-01E		Discussion			DIS	MF	09:30A-10:40A		J Baskin Engr 372	Staff	
29371		AMS-5-01		Statistics	5	NQ	LEC	TTh	04:00P-05:45P		Earth&Marine B206	Morris,R.D.	
		<i>Enroll in lecture and associated discussion section</i>											
29373		AMS-5-01A		Discussion			DIS		**To Be Arranged**			Staff	
29375		AMS-5-01B		Discussion			DIS		**To Be Arranged**			Staff	
29377		AMS-5-01C		Discussion			DIS		**To Be Arranged**			Staff	
29379		AMS-5-01D		Discussion			DIS		**To Be Arranged**			Staff	
29381		AMS-5-01E		Discussion			DIS		**To Be Arranged**			Staff	
31941		AMS-5-01F		Discussion			DIS		**To Be Arranged**			Staff	
35921		AMS-5-01G		Discussion			DIS		**To Be Arranged**			Staff	
35922		AMS-5-01H		Discussion			DIS		**To Be Arranged**			Staff	
31329		AMS-7-01		StatMthdsBio/Env/HLth	5	NQ	LEC	TTh	08:00A-09:45A		Media Theater M110	Draper,D.	R
		<i>Enroll in lecture and associated discussion section; concurrent enrollment in AMS 7L 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
31331		AMS-7-01A		Discussion		DIS	M		02:00P-03:10P		Engineer 2 194	Staff	
31333		AMS-7-01B		Discussion		DIS	M		03:30P-04:40P		Engineer 2 194	Staff	
31335		AMS-7-01C		Discussion		DIS	W		08:00A-09:10A		Porter Acad 144	Staff	
31337		AMS-7-01D		Discussion		DIS	W		11:00A-12:10P		Engineer 2 192	Staff	
31339		AMS-7-01E		Discussion		DIS	Th		06:00P-07:10P		Engineer 2 194	Staff	
32845		AMS-7-01F		Discussion		DIS	Th		07:30P-08:40P		Engineer 2 194	Staff	
32847		AMS-7-01G		Discussion		DIS	F		12:30P-01:40P		Engineer 2 194	Staff	
31641		AMS-7L-01		StatMthdsBioEnvHlthLab2		LAB			**To Be Arranged**			Draper,D.	R
<i>Enroll in lab and associate secondary lab; concurrent enrollment in AMS 7 is required</i>													
31643		AMS-7L-01A		Secondary Lab		LBS	M		01:00P-03:00P		J Baskin Engr 109	Staff	
31645		AMS-7L-01B		Secondary Lab		LBS	T		04:00P-06:00P		J Baskin Engr 109	Staff	
31647		AMS-7L-01C		Secondary Lab		LBS	W		01:00P-03:00P		J Baskin Engr 109	Staff	
32281		AMS-7L-01D		Secondary Lab		LBS	F		09:00A-11:00A		J Baskin Engr 109	Staff	
32849		AMS-7L-01E		Secondary Lab		LBS	F		11:00A-01:00P		J Baskin Engr 109	Staff	
35923		AMS-7L-01F		Secondary Lab		LBS	W		09:00A-11:00A		Soc Sci I 135	Staff	
36451		AMS-7L-01G		Secondary Lab		LBS	Th		11:00A-01:00P		Soc Sci I 135	Staff	
34307		AMS-10-01		Math Methods I	5	Q	LEC	MWF	09:30A-10:40A		Kresge Clrm 327	Katznelson,J.R.	R
<i>Enroll in lecture and associated secondary lab; taught in conjunction with AMS 10A</i>													
34311		AMS-10-01A		Secondary Lab		LBS	T		02:00P-09:00P		Soc Sci I 135	Staff	
34313		AMS-10-01B		Secondary Lab		LBS	W		12:00P-02:00P		Soc Sci I 135	Staff	
36533		AMS-10-01C		Secondary Lab		LBS	Th		09:00A-11:00A		Soc Sci I 135	Staff	
34309		AMS-10A-01		Basic Math Methods I	3		LEC	MWF	09:30A-10:40A		Kresge Clrm 327	Katznelson,J.R.	R
<i>Enroll in lecture and associated secondary lab; taught in conjunction with AMS 10</i>													
34317		AMS-10A-01A		Secondary Lab		LBS			**To Be Arranged**			Staff	
29343		AMS-11A-01		Math Methd for Econ	5	NQ	LEC	MWF	08:00A-09:10A		ClassroomUnit 001	Mangel,M.S.	R
<i>Also offered as ECON 11A</i>													
29345		AMS-11A-01A		Discussion		DIS	T		08:30A-09:40A		J Baskin Engr 372	Staff	
29347		AMS-11A-01B		Discussion		DIS	T		12:00P-01:10P		J Baskin Engr 372	Staff	
29349		AMS-11A-01C		Discussion		DIS	W		12:30P-01:40P		J Baskin Engr 372	Staff	
29351		AMS-11A-01D		Discussion		DIS	W		03:30P-04:40P		Porter Acad 144	Staff	
30633		AMS-11A-01E		Discussion		DIS	Th		06:00P-07:10P		J Baskin Engr 165	Staff	
30635		AMS-11A-01F		Discussion		DIS	Th		07:30P-08:40P		J Baskin Engr 165	Staff	
30653		AMS-11B-01		Math Methds Econ II	5	NQ	LEC	MWF	12:30P-01:40P		Kresge Clrm 321	Katznelson,J.R.	R
<i>Also offered3 as ECON 11B</i>													
30655		AMS-11B-01A		Discussion		DIS	T		06:00P-07:10P		J Baskin Engr 165	Staff	
30657		AMS-11B-01B		Discussion		DIS	T		07:30P-08:40P		J Baskin Engr 165	Staff	
30659		AMS-11B-01C		Discussion		DIS	W		09:30A-10:40A		J Baskin Engr 372	Staff	
30661		AMS-11B-01D		Discussion		DIS	W		05:00P-06:10P		J Baskin Engr 372	Staff	
30663		AMS-11B-01E		Discussion		DIS	W		06:30P-07:40P		J Baskin Engr 372	Staff	
30665		AMS-11B-01F		Discussion		DIS	Th		08:30A-09:40A		J Baskin Engr 372	Staff	
35928		AMS-80A-01		Gambling and Gaming	5	Q	LEC	TTh	04:00P-05:45P		J Baskin Engr 152	Rodriguez,A.	
35929		AMS-107-01		IntroFluidDynamics	5		LEC	TTh	08:00A-09:45A		N. Sci Annex 101	Glatzmaier,G.A.	R
<i>Also offered as Phys 107; taught in conjunction with AMS 217</i>													
32273		AMS-132-01		Stat Inference	5		LEC	TTh	10:00A-11:45A		J Baskin Engr 169	Kottas,A.	R
36453		AMS-200-01		Research/Teach AMS	3		LEC	T	12:00P-01:45P		Kresge Clrm 325	Brummell,N.H.	R
34115		AMS-205A-01		Mathematical Stats	5		LEC	TTh	02:00P-03:45P		Engineer 2 194	Rodriguez,A.	R
35385		AMS-205A-50		Mathematical Stats	5		LEC	TTh	02:00P-03:45P		SiliconValleyCtr	Rodriguez,A.	R
34117		AMS-205B-01		Stat Inference	5		LEC	TTh	02:00P-03:45P		J Baskin Engr 165	Sanso,B.	R
32223		AMS-211-01		Fnds Applied Math	5		LEC	TTh	10:00A-11:45A		Hum & Soc Sci 250	Brummell,N.H.	R
35930		AMS-217-01		Intro Fluids	5		LEC	TTh	08:00A-09:45A		N. Sci Annex 101	Glatzmaier,G.A.	R
<i>Also offered as PHYS 107, taught in conjunction AMS 107</i>													
35933		AMS-223-01		Time Series Analysis	5		LEC	TTh	04:00P-05:45P		Crown Clrm 104	Prado,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
32687		AMS-280A-01		Math/ComputrBiology	2	SEM	Th		04:00P-06:00P		J Baskin Engr 330	Mangel,M.S.	R
31035	Y	AMS-280B-01		Stat&AppliedMathModel	2	SEM	M		04:00P-05:00P		Engineer 2 180	Garaud,P.	
35934		AMS-280C-01		Seminar in GAFD	2	SEM			**To Be Arranged**			Garaud,P.	R
Art													
10941		ART-20-01		Intr Draw for Major	5	A	STU	TThSa	01:00P-03:45P		Baskin Paint E101	Rangell,P.	R
10943		ART-20-02		Intr Draw for Major	5	A	STU	TThSa	04:00P-06:45P		Baskin Paint E101	Rangell,P.	R
31345		ART-21-01		Intro Computer Art	5	A	STU	TTh	02:00P-04:45P		Porter Acad 240	Staff	R
29341		ART-22-01		Intro Elect Intrmed	5	A	STU	MWF	02:00P-04:45P		Baskin Paint E102	Anderson,E.W.	R
10945		ART-24A-01		Intr Painting, Oil	5	A	STU	MWF	01:00P-03:45P		Baskin Paint 2 L101	Hannah,H.L.	R
36105		ART-24B-01		Intr Paint: Acrylic	5	A	STU	TThSa	02:00P-04:45P		Baskin Visul J101	Galuszka,F.R.	R
<i>Course will be using only water based media including acrylic and gouache.</i>													
10947		ART-26-01		Intr To Printmaking	5	A	STU	MWF	02:00P-04:45P		Baskin Print G101	Staff	R
10949		ART-30-01		Intr to Photography	5	A	STU	MWF	02:00P-04:45P		Baskin Photo I200	Watts,L.G.	R
10951		ART-30-02		Intr to Photography	5	A	STU	TThSa	09:00A-11:45A		Baskin Photo I200	Friedman,S.	R
36106		ART-40-01		Sculpture I	5	A	STU	TThSa	01:00P-03:45P		Baskin Plast H101	Perry,K.C.	R
10953		ART-60-01		Forms and Ideas	5	A	STU	TThSa	09:00A-11:45A		Baskin Plast H101	Perry,K.C.	R
31949		ART-80A-01		Intro to Drawing	5	4A	LEC	T	02:00P-03:45P		Eight Acad 240	Wohlfeiler,R.A.	
<i>Enroll in lecture and associated secondary studio</i>													
31953		ART-80A-01A		Secondary Studio			STS	TTh	10:00A-12:00P		TA Studio C101	Staff	
31955		ART-80A-01B		Secondary Studio			STS	WF	10:30A-12:30P		TA Studio C101	Staff	
31957		ART-80A-01C		Secondary Studio			STS	WF	02:00P-04:00P		TA Studio C101	Staff	
10955		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>													
10957		ART-80C-01A		Discussion			DIS	W	05:00P-06:10P		Soc Sci I 153	Staff	
10959		ART-80C-01B		Discussion			DIS	W	06:30P-07:40P		Soc Sci I 153	Staff	
10961		ART-80C-01C		Discussion			DIS	F	08:00A-09:10A		Soc Sci I 153	Staff	
10963		ART-80C-01D		Discussion			DIS	F	09:30A-10:40A		Soc Sci I 153	Staff	
10965		ART-80C-01E		Discussion			DIS	F	12:30P-01:40P		Soc Sci I 153	Staff	
10967		ART-80C-01F		Discussion			DIS	F	02:00P-03:10P		Soc Sci I 153	Staff	
30555		ART-80C-01G		Discussion			DIS	T	08:30A-09:40A		Porter Acad 249	Staff	
30557		ART-80C-01H		Discussion			DIS	Th	08:30A-09:40A		Porter Acad 249	Staff	
31347		ART-80C-01I		Discussion			DIS	M	08:00A-09:10A		Soc Sci I 153	Staff	
31349		ART-80C-01J		Discussion			DIS	W	08:00A-09:10A		Soc Sci I 153	Staff	
10983		ART-103-01		Interm/Adv Painting	5		STU	TThSa	09:00A-11:45A		Baskin Visul J101	Galuszka,F.R.	R
<i>Course will be using only water based media including acrylic and gouache.</i>													
31963		ART-103-02		Interm/Adv Painting	5		STU	TThSa	02:00P-04:45P		Baskin Paint 3 M101	Hitchcock,M.C.	R
36502		ART-105-01		Spec Topics Drawing	5		STU	MWF	05:00P-07:45P		Baskin Paint E101	Gwyn,M.	R
36108		ART-107-01		Media Wrks On Paper	5	A	STU	TThSa	09:00A-11:45A		Baskin Paint 3 M101	Hitchcock,M.C.	R
36109		ART-110-01		Sp Topcs Intermedia	5		STU	TThSa	02:00P-04:45P		Baskin Clay A101	Crichton,E.G.	R
36110		ART-114-01		Lithography I	5	A	STU	TThSa	09:00A-11:45A		Baskin Print G101	Rangell,P.	R
32999		ART-123-01		Digital Printmaking	5	A	STU	MWF	09:00A-11:45A		Porter Acad 240	Wohlfeiler,R.A.	R
31965		ART-126-01		Art of Bookmaking	5	A	STU	MWF	09:00A-11:45A		Baskin Draw F101	Staff	R
32275	Y	ART-127A-01		Visiting Artist: A	5		SEM	TThSa	09:00A-11:45A		Baskin Sculp 2 P108	Staff	R
<i>See Enrollment Conditions for instructions</i>													
32277	Y	ART-127B-01		Visiting Artist: B	5		STU	TThSa	02:00P-04:45P		Baskin Sculp 2 P108	Staff	R
<i>See Enrollment Conditions for instructions</i>													
10989		ART-130-01		Interm Photography	5		STU	MWF	05:30P-08:15P		Baskin Photo I200	Watts,L.G.	R
10991		ART-132-01		Color Photography	5		STU	TThSa	02:00P-04:45P		Baskin Photo I200	Alley,K.J.	R
33001		ART-134-01		Spec Topics Photogr	5		STU	TThSa	09:30A-12:15P		Commun Bldg 33	Crichton,E.G.	R
10993		ART-135-01		Intro Digital Photo	5	A	STU	TTh	09:00A-11:45A		Porter Acad 240	Alley,K.J.	R
36111		ART-140-01		Metal Sculpture	5		STU	MWF	02:00P-04:45P		Baskin Sculp 2 P101	Parker,J.A.	R
33003		ART-141-01		Sculpture II	5	A	STU	MWF	02:00P-04:45P		Baskin Clay A101	Staff	R
32333		ART-150C-01		Collab & Intractvty	5	W	SEM	TTh	12:00P-01:45P		Porter Acad 249	Murray,D.C.	R

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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Astronomy and Astrophysics

11115		ASTR-2-01		Overview Universe	5	NQ	LEC	MWF	12:30P-01:40P		ClassroomUnit 002	Bernstein,R.A.	
11117		ASTR-2-01A		Discussion			DIS	M	05:30P-06:40P		PhysSciences 110	Staff	
11119		ASTR-2-01B		Discussion			DIS	M	07:00P-08:10P		PhysSciences 110	Staff	
11121		ASTR-2-01C		Discussion			DIS	T	06:00P-07:10P		PhysSciences 110	Staff	
11123		ASTR-2-01D		Discussion			DIS	T	07:30P-08:40P		PhysSciences 110	Staff	
11125		ASTR-2-01E		Discussion			DIS	Th	08:30A-09:40A		PhysSciences 114	Staff	
31269		ASTR-2-01F		Discussion			DIS	F	09:30A-10:40A		PhysSciences 110	Staff	
36114		ASTR-15-01		DeadStars/BlkHoles	5	NQ	LEC	TTh	02:00P-03:45P		Earth&Marine B210	Ramirez-Ruiz,E.J.	
31355		ASTR-16-01		Astrobio/Life/Universe	5	NQ	LEC	MWF	09:30A-10:40A		PhysSciences 140	Steinacker,A.	
34319		ASTR-70-01		Honors/AstrophysRes	2		SEM	Th	04:00P-05:45P		Ctr Adaptive Optics 217	Smith,G.H.	
36116		ASTR-112-01		Physics of Stars	5		LEC	TTh	12:00P-01:45P		Earth&Marine B210	Krumholz,M.	R
36172		ASTR-135A-01		Astrophys Adv Lab	3		LAB	T	12:00P-01:45P		Nat Sci 2 110	Dewey,R.J.	R
<i>Also offered as PHYS 135A</i>													
36415		ASTR-135A-01A		Secondary Lab			LBS		**To Be Arranged**			Staff	
36174		ASTR-171-01		Genl Relativity	5		LEC	MW	10:00A-11:45A		ISB 235	Dine,M.	R
<i>Also offered as PHYS 171</i>													
36117		ASTR-204-01		Astrophysical Flows	5		LEC	MWF	09:30A-10:40A		ISB 356	Laughlin,G.P.	R
11203		ASTR-205-01		Intr Astro Research	5		LEC	MWF	02:00P-03:10P		ISB 126	Epps,H.W.	R
36118		ASTR-240A-01		Galac Stellar Syst	5		LEC	TTh	02:00P-03:45P		ISB 356	Rockosi,C.M.	
36119		ASTR-257-01		Modern Astro Tech	5		LEC	TTh	10:00A-11:45A		ISB 356	Bolte,M.	
11205		ASTR-292-01		Seminar	0		SEM	W	03:30P-05:30P		N. Sci Annex 101	Staff	

Biochemistry

11507		BIOC-100A-01		Biochemistry	5		LEC	TTh	12:00P-01:45P		J Baskin Engr 152	Staff	R
35573		BIOC-100A-01A		Discussion			DIS		**To Be Arranged**			Staff	
35575		BIOC-100A-01B		Discussion			DIS		**To Be Arranged**			Staff	
35577		BIOC-100A-01C		Discussion			DIS		**To Be Arranged**			Staff	
35579		BIOC-100A-01D		Discussion			DIS		**To Be Arranged**			Staff	

Biology: Ecology and Evolutionary Biology

11511		BIOE-20B-01		Developmt & Physiol	5		LEC	TTh	04:00P-05:45P		Humn Lecture 206	Staff	R
<i>Enroll in lecture and associated discussion section</i>													
11513		BIOE-20B-01A		Discussion			DIS		**To Be Arranged**			Staff	
11515		BIOE-20B-01B		Discussion			DIS		**To Be Arranged**			Staff	
11517		BIOE-20B-01C		Discussion			DIS		**To Be Arranged**			Staff	
11519		BIOE-20B-01D		Discussion			DIS		**To Be Arranged**			Staff	
11521		BIOE-20B-01E		Discussion			DIS		**To Be Arranged**			Staff	
11523		BIOE-20B-01F		Discussion			DIS		**To Be Arranged**			Staff	
11527		BIOE-20C-01		Ecology & Evolution	5		LEC	MWF	09:30A-10:40A		Media Theater M110	Marinovic,B.B.	
<i>Enroll in lecture and associated discussion section</i>													
11529		BIOE-20C-01A		Discussion			DIS		**To Be Arranged**			Staff	
11531		BIOE-20C-01B		Discussion			DIS		**To Be Arranged**			Staff	
31359		BIOE-20C-01C		Discussion			DIS		**To Be Arranged**			Staff	
11533		BIOE-20C-01D		Discussion			DIS		**To Be Arranged**			Staff	
11535		BIOE-20C-01E		Discussion			DIS		**To Be Arranged**			Staff	
35603		BIOE-20C-01F		Discussion			DIS		**To Be Arranged**			Staff	
32047	Y	BIOE-75-01		Sci Diving Cert	2		FLD		**To Be Arranged**			Clabuesch,S.R.	
11601		BIOE-109-01		Evolution	5		LEC	MWF	02:00P-03:10P		Media Theater M110	Pogson,G.	R
<i>Enroll in lecture and associated discussion section</i>													
31633		BIOE-109-01A		Discussion			DIS		**To Be Arranged**			Staff	
31635		BIOE-109-01B		Discussion			DIS		**To Be Arranged**			Staff	
31637		BIOE-109-01C		Discussion			DIS		**To Be Arranged**			Staff	
31639		BIOE-109-01D		Discussion			DIS		**To Be Arranged**			Staff	
33525		BIOE-109-01E		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
33527		BIOE-109-01F		Discussion			DIS		**To Be Arranged**			Staff	
36132		BIOE-112-01		Ornithology	5		LEC	TTh	10:00A-11:45A		Porter Acad 246	Lyon,B.E.	R
36133		BIOE-112L-01		Ornithology Field	2		FLD	F	08:00A-12:00P		Nat Sci 2 233	Staff	R
36134		BIOE-127-01		Ichthyology	5		LEC	TTh	02:00P-03:45P		Steven Acad 175	Bernardi,G.	R
				<i>Concurrent enrollment in BIOE 127L is required</i>									
36135		BIOE-127L-01		Ichthyology Lab	2		LAB	M	02:00P-05:00P		Lg Discovery 128A	Bernardi,G.	R
				<i>Concurrent enrollment in BIOE 127 is required</i>									
36136		BIOE-127L-02		Ichthyology Lab	2		LAB	W	02:00P-05:00P		Lg Discovery 128A	Bernardi,G.	R
				<i>Concurrent enrollment in BIOE 127 is required</i>									
36137		BIOE-127L-03		Ichthyology Lab	2		LAB	W	06:00P-09:00P		Lg Discovery 128A	Bernardi,G.	R
				<i>Concurrent enrollment in BIOE 127 is required</i>									
36138		BIOE-127L-04		Ichthyology Lab	2		LAB	F	02:00P-05:00P		Lg Discovery 128A	Bernardi,G.	R
				<i>Concurrent enrollment in BIOE 127 is required</i>									
11591		BIOE-140-01		Behavioral Ecology	5		LEC	MWF	09:30A-10:40A		J Baskin Engr 152	Staff	R
				<i>Enroll in lecture and associated discussion section</i>									
11593		BIOE-140-01A		Discussion			DIS		**To Be Arranged**			Staff	
11595		BIOE-140-01B		Discussion			DIS		**To Be Arranged**			Staff	
11597		BIOE-140-01C		Discussion			DIS		**To Be Arranged**			Staff	
11599		BIOE-140-01D		Discussion			DIS		**To Be Arranged**			Staff	
29277		BIOE-145-01		Plant Ecology	5		LEC	TTh	10:00A-11:45A		Earth&Marine B210	Parker,I.M.	R
				<i>Taught in conjunction with BIOE 245</i>									
35549		BIOE-145-01A		Discussion			DIS		**To Be Arranged**			Staff	
35551		BIOE-145-01B		Discussion			DIS		**To Be Arranged**			Staff	
31391		BIOE-145L-01		Plant Ecology Field	5	W	LAB	TTh	01:30P-05:30P		Thimann Lab 203	Parker,I.M.	R
				<i>Concurrent enrollment in BIOE 145 is required; taught in conjunction with BIOE 245L</i>									
35403		BIOE-155-01		Freshwater Ecology	5		LEC	TTh	10:00A-11:45A		Ocean Health 118	Moore,J.W.	R
36179	Y	BIOE-161-01		Kelp Forest Ecology	5		FLD	T	08:00A-12:15P		Ocean Health 118	Carr,M.H. Raimondi,P.T.	
36180	Y	BIOE-161L-01		Kelp Forest Eco Lab	5	W	LAB	W	08:00A-12:15P		Ocean Health 118	Carr,M.H. Raimondi,P.T.	
29275		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>									
32363		BIOE-165-01A		Discussion			DIS		**To Be Arranged**			Staff	
33519		BIOE-165-01B		Discussion			DIS		**To Be Arranged**			Staff	
35543		BIOE-176A-01		Game Theory /Apps I	5		LEC	TTh	12:00P-01:45P		PhysSciences 110	Staff	R
				<i>Also offered as ECON 166A and CMPS 166A</i>									
35545		BIOE-176A-01A		Discussion			DIS		**To Be Arranged**			Staff	
35547		BIOE-176A-01B		Discussion			DIS		**To Be Arranged**			Staff	
32081	Y	BIOE-183F-01		Undergrad Res: EEB	2		SEM	M	05:00P-06:30P		Soc Sci 2 159	Staff	R
				<i>Taught in conjunction with BIOE 183L</i>									
31393	Y	BIOE-183L-01		Undergrad Res: EEB	5	W	LAB	M	05:00P-06:30P		Soc Sci 2 159	Staff	R
				<i>Taught in conjunction with BIOE 183F</i>									
31049		BIOE-200A-01		Scientific Skills	5		SEM	TTh	04:00P-05:45P		Ocean Health 201	Carr,M.H.	R
32085		BIOE-200B-01		Adv Organismal Bio	5		SEM	TTh	02:00P-03:45P		Ocean Health 201	Staff	R
31395		BIOE-245-01		Plant Ecology	5		LEC	TTh	10:00A-11:45A		Earth&Marine B210	Parker,I.M.	R
				<i>Taught in conjunction with BIOE 145</i>									
32079		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>									
31679		BIOE-281A-01		Appld Marine Ecolog	5		SEM	F	12:30P-01:40P		TBA	Carr,M.H.	R
31681		BIOE-281B-01		Molecular Evolution	2		SEM	F	12:30P-01:40P		TBA	Bernardi,G.	R
31683		BIOE-281C-01		Physiological Ecol	5		SEM	F	12:30P-01:40P		TBA	Costa,D.	R
32089		BIOE-281F-01		Ecological Res Topi	5		SEM	F	12:30P-01:40P		Earth&Marine D336	Fox,L.R.	R
36238		BIOE-281I-01		Plant Pop/Disease	5		SEM	F	12:30P-01:40P		TBA	Staff	R
31685		BIOE-281J-01		Biochemical Ecology	5		SEM	F	12:30P-01:40P		TBA	Langenheim,J.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
36239		BIOE-281K-01		Plant Evolution	5	SEM	F		12:30P-01:40P			Kay,K.M.	R
31687		BIOE-281L-01		Behavrl & Evol Ecol	5	SEM	F		12:30P-01:40P		Earth&Marine D318	Lyon,B.E.	R
33561	Y	BIOE-281M-01		Aquatic Ecology	2	SEM	F		12:30P-01:40P		TBA	Moore,J.W.	R
31689		BIOE-281N-01		Marine Vert Ecology	5	SEM	F		12:30P-01:40P		TBA	Croll,D.A.	R
36240		BIOE-281O-01		PlantWaterRelations	5	SEM	F		12:30P-01:40P		TBA	Pittermann,J.	R
31707		BIOE-281P-01		Plant Population	5	SEM	F		12:30P-01:40P		TBA	Parker,I.M.	R
31691		BIOE-281Q-01		Molec Evolution Gen	5	SEM	F		12:30P-01:40P		Earth&Marine D410	Pogson,G.	R
31693		BIOE-281R-01		Mari Eco&Evol Biol	5	SEM	F		12:30P-01:40P		TBA	Raimondi,P.T.	R
31695		BIOE-281T-01		Species Interactions	5	SEM	F		12:30P-01:40P		TBA	Thompson,J.N.	R
32091		BIOE-281U-01		Invertebrate Biol	5	SEM	F		12:30P-01:40P		Earth&Marine D480	Potts,D.C.	R
31697		BIOE-281V-01		Behavioral Ecology	5	SEM	F		12:30P-01:40P		Earth&Marine D450	Sinervo,B.R.	R
31699		BIOE-281W-01		Exercise/Env Phys	5	SEM	F		12:30P-01:40P		TBA	Williams,T.M.	R
11913		BIOE-294-01		Ecol, Evol Bio Sem	0	SEM	W		12:30P-01:40P		N. Sci Annex 101	Staff	R

Biology: Molecular, Cell, and Developmental Biology

11509	Y	BIOL-15-01		Research Reports	1	SEM	M		05:00P-06:45P		PhysSciences 136	Zahler,A.M.	
<i>See Enrollment Conditions for instructions</i>													
32033		BIOL-20A-01		Cell & Molecular Bi	5	N	LEC	MWF	09:30A-10:40A		ClassroomUnit 002	Bowman,B.J.	R
<i>Enroll in lecture and associated discussion section</i>									<i>Zahler,A.M.</i>				
32035		BIOL-20A-01A		Discussion			DIS		**To Be Arranged**			Staff	
32037		BIOL-20A-01B		Discussion			DIS		**To Be Arranged**			Staff	
32039		BIOL-20A-01C		Discussion			DIS		**To Be Arranged**			Staff	
32041		BIOL-20A-01D		Discussion			DIS		**To Be Arranged**			Staff	
32043		BIOL-20A-01E		Discussion			DIS		**To Be Arranged**			Staff	
32045		BIOL-20A-01F		Discussion			DIS		**To Be Arranged**			Staff	
33495		BIOL-20A-01G		Discussion			DIS		**To Be Arranged**			Staff	
33497		BIOL-20A-01H		Discussion			DIS		**To Be Arranged**			Staff	
35599		BIOL-20A-01I		Discussion			DIS		**To Be Arranged**			Staff	
35601		BIOL-20A-01J		Discussion			DIS		**To Be Arranged**			Staff	
36487		BIOL-20A-01K		Discussion			DIS		**To Be Arranged**			Staff	
36488		BIOL-20A-01L		Discussion			DIS		**To Be Arranged**			Staff	
11537		BIOL-20L-01		Experimental Lab	2		LAB	M	08:30A-12:30P		Thimann Lab 223	Staff	R
31361		BIOL-20L-02		Experimental Lab	2		LAB	M	01:00P-05:00P		Thimann Lab 223	Staff	R
36186		BIOL-20L-03		Experimental Lab	2		LAB	W	01:00P-05:00P		Thimann Lab 223	Staff	R
36187		BIOL-20L-04		Experimental Lab	2		LAB	F	01:00P-05:00P		Thimann Lab 223	Staff	R
35397	Y	BIOL-21L-01		Genomics Lab	2		LAB	TTh	10:00A-12:00P		Thimann Lab 285	Hartzog,G.A.	
												Staff	
11539		BIOL-80A-01		Female Physiology	5	2	LEC	TTh	02:00P-03:45P		Thim Lecture 003	Zavanelli,M.I.	
<i>Enroll in lecture and associated discussion section</i>													
11541		BIOL-80A-01A		Discussion			DIS		**To Be Arranged**			Staff	
11543		BIOL-80A-01B		Discussion			DIS		**To Be Arranged**			Staff	
11545		BIOL-80A-01C		Discussion			DIS		**To Be Arranged**			Staff	
11547		BIOL-80A-01D		Discussion			DIS		**To Be Arranged**			Staff	
11549		BIOL-80A-01E		Discussion			DIS		**To Be Arranged**			Staff	
11551		BIOL-80A-01F		Discussion			DIS		**To Be Arranged**			Staff	
29257		BIOL-80A-01G		Discussion			DIS		**To Be Arranged**			Staff	
33499		BIOL-80A-01H		Discussion			DIS		**To Be Arranged**			Staff	
36201		BIOL-80A-01I		Discussion			DIS		**To Be Arranged**			Staff	
31659		BIOL-89-01		ClinicalHealthCare	5	S	LEC	TTh	08:00A-09:45A		Thim Lecture 003	Steiner,A.	
<i>Enroll in lecture and associated discussion section</i>													
31763		BIOL-89-01A		Discussion			DIS		**To Be Arranged**			Staff	
31765		BIOL-89-01B		Discussion			DIS		**To Be Arranged**			Staff	
31767		BIOL-89-01C		Discussion			DIS		**To Be Arranged**			Staff	
32049		BIOL-89-01D		Discussion			DIS		**To Be Arranged**			Staff	
32051		BIOL-89-01E		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
32053		BIOL-89-01F		Discussion			DIS		**To Be Arranged**			Staff	
36202		BIOL-89-01G		Discussion			DIS		**To Be Arranged**			Staff	
36203		BIOL-89-01H		Discussion			DIS		**To Be Arranged**			Staff	
11553		BIOL-100-01		Biochemistry	5		LEC	MWF	02:00P-03:10P		Kresge Clrm 321	Sanford,J.R.	R
				<i>Enroll in lecture and associated discussion section</i>									
11555		BIOL-100-01A		Discussion			DIS		**To Be Arranged**			Staff	
11557		BIOL-100-01B		Discussion			DIS		**To Be Arranged**			Staff	
11559		BIOL-100-01C		Discussion			DIS		**To Be Arranged**			Staff	
11561		BIOL-100-01D		Discussion			DIS		**To Be Arranged**			Staff	
31363		BIOL-100L-01		Biochemistry Lab	5	W	LAB	MW	09:00A-12:00P		Thimann Lab 289	Dalbey,M.S.	R
								F	11:00A-12:10P		PhysSciences 140		
31365		BIOL-100L-02		Biochemistry Lab	5	W	LAB	MW	12:30P-03:30P		Thimann Lab 289	Dalbey,M.S.	R
								F	11:00A-12:10P		PhysSciences 140		
11563		BIOL-105-01		Genetics	5		LEC	TTh	08:00A-09:45A		Earth&Marine B206	Bhalla,N.	R
				<i>Enroll in lecture and associated discussion section</i>									
11565		BIOL-105-01A		Discussion			DIS		**To Be Arranged**			Staff	
11567		BIOL-105-01B		Discussion			DIS		**To Be Arranged**			Staff	
11569		BIOL-105-01C		Discussion			DIS		**To Be Arranged**			Staff	
11571		BIOL-105-01D		Discussion			DIS		**To Be Arranged**			Staff	
11573		BIOL-105-01E		Discussion			DIS		**To Be Arranged**			Staff	
11575		BIOL-105-01F		Discussion			DIS		**To Be Arranged**			Staff	
32065		BIOL-105L-01		Eukaryotc Genet Lab	5	W	LAB	MW	10:00A-01:00P		Thimann Lab 203	Lee,J.C.	R
32067		BIOL-105L-02		Eukaryotc Genet Lab	5	W	LAB	MW	02:00P-05:00P		Thimann Lab 203	Lee,J.C.	R
11577		BIOL-110-01		Cell Biology	5		LEC	TTh	02:00P-03:45P		Media Theater M110	Rexach,M.	R
31369		BIOL-110-01A		Discussion			DIS		**To Be Arranged**			Staff	
11579		BIOL-110-01B		Discussion			DIS		**To Be Arranged**			Staff	
11581		BIOL-110-01C		Discussion			DIS		**To Be Arranged**			Staff	
11583		BIOL-110-01D		Discussion			DIS		**To Be Arranged**			Staff	
29265		BIOL-110-01E		Discussion			DIS		**To Be Arranged**			Staff	
36213		BIOL-110-01F		Discussion			DIS		**To Be Arranged**			Staff	
33503		BIOL-110-01G		Discussion			DIS		**To Be Arranged**			Staff	
33505		BIOL-110-01H		Discussion			DIS		**To Be Arranged**			Staff	
36601		BIOL-119-01		Microbiology	5		LEC	MWF	11:00A-12:10P		Oakes Acad 105	Yildiz,F.	
				<i>Enroll in lecture and associated discussion section; also offered as METX 119</i>									
36602		BIOL-119-01A		Discussion			DIS		**To Be Arranged**			Staff	
36603		BIOL-119-01B		Discussion			DIS		**To Be Arranged**			Staff	
36604		BIOL-119-01C		Discussion			DIS		**To Be Arranged**			Staff	
36605		BIOL-119-01D		Discussion			DIS		**To Be Arranged**			Staff	
36606		BIOL-119L-01		Gen Microbio Lab	5	W	LAB	TTh	02:00P-05:00P		Thimann Lab 223	Staff	
				<i>Also offered as METX 119L</i>									
						M			03:30P-04:40P		PhysSciences 140		
36607		BIOL-119L-02		Gen Microbio Lab	5	W	LAB	TTh	02:00P-05:00P		Thimann Lab 229	Staff	
				<i>Also offered as METX 119L</i>									
						M			03:30P-04:40P		PhysSciences 140		
11585		BIOL-125-01		Intro to Neurosci	5		LEC	TTh	04:00P-05:45P		Steven Acad 150	Chen,B.	R
29271		BIOL-125-01A		Discussion			DIS		**To Be Arranged**			Staff	
11587		BIOL-125-01B		Discussion			DIS		**To Be Arranged**			Staff	
11589		BIOL-125-01C		Discussion			DIS		**To Be Arranged**			Staff	
29273		BIOL-125-01D		Discussion			DIS		**To Be Arranged**			Staff	
31379		BIOL-130-01		Human Physiology	5		LEC	MWF	03:30P-04:40P		PhysSciences 114	Ogren,L.M.	R
31381		BIOL-130-01A		Discussion			DIS		**To Be Arranged**			Staff	
31383		BIOL-130-01B		Discussion			DIS		**To Be Arranged**			Staff	
31385		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</i>									
31387		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</i>									

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
31389		BIOL-130L-03		Human Physiology Lab	2	LAB	T		01:00P-04:00P		Thimann Lab 239	Ogren,L.M.	R
				<i>Concurrent enrollment in BIOL 130 is required</i>									
36222		BIOL-130L-04		Human Physiology Lab	2	LAB	W		09:00A-12:00P		Thimann Lab 239	Ogren,L.M.	R
				<i>Concurrent enrollment in BIOL 130 is required</i>									
36306		BIOL-181-01		Comp Bio Tools	5	LAB	TTh		04:00P-05:45P		Engineer 2 192	Gerloff,D.L.	R
				<i>Also offered as BME 110</i>									
30567	Y	BIOL-186F-01		Undergrad Rsrch MCD	2	LAB	F		03:30P-04:40P		TBA	Noller,H.F.	
				<i>See Enrollment Conditions for instructions; taught in conjunction with BIOL 186L</i>									
30569	Y	BIOL-186L-01		Undergrad Rsrch MCD	5	W	LAB	F	03:30P-04:40P		TBA	Noller,H.F.	
				<i>See Enrollment Conditions for instructions; taught in conjunction with 186F</i>									
11603		BIOL-187L-01		Molec Biotech Lab	5	LAB	TTh		09:00A-01:00P		Thimann Lab 215	Zavanelli,M.I.	R
29387	Y	BIOL-189-01		Health Sci Intrnshp	5	FLD	W		05:00P-06:45P		PhysSciences 136	Tamkun,J.W.	
				<i>Taught in conjunction with BIOL 189F</i>									
36225	Y	BIOL-189F-01		Health Sci Intrnshp	2	FLD	W		05:00P-06:45P		PhysSciences 136	Tamkun,J.W.	
				<i>Taught in conjunction with BIOL 189.</i>									
11909		BIOL-200A-01		Genetics&Microbiol	5	LEC			**To Be Arranged**			Saxton,W.M.	R
36227		BIOL-200B-01		Adv Molecular Bio	5	LEC			**To Be Arranged**			Hartzog,G.A.	R
												Kamakaka,R.T.	
												Noller,H.F.	
36228		BIOL-206-01		Intro Stem Cell Bio	5	LEC			**To Be Arranged**			Sullivan,W.	R
32219		BIOL-280A-01		Molec Gene Yeasts	2	SEM	W		12:30P-01:40P		TBA	Ares,M.	R
32087		BIOL-280B-01		Chromatin Structure	2	SEM	W		12:30P-01:40P		TBA	Boeger,H.H.	R
32245		BIOL-280C-01		Mammalian Brain Dev	2	SEM	W		12:30P-01:40P		Sinsheimer Lb 434	Chen,B.	R
31661		BIOL-280D-01		RNA Processing	2	SEM	W		12:30P-01:40P		Sinsheimer Lb 409	Zahler,A.M.	R
36229		BIOL-280E-01		Meiotic Chrom Dynms	2	SEM	W		12:30P-01:40P		TBA	Bhalla,N.	R
31663		BIOL-280F-01		Vert Neural Connect	2	SEM	W		12:30P-01:40P		TBA	Feldheim,D.A.	R
31665		BIOL-280H-01		Chromatn/Transcript	2	SEM	W		12:30P-01:40P		TBA	Hartzog,G.A.	R
31753		BIOL-280I-01		EpigeneticGeneSilenc	2	SEM	W		12:30P-01:40P		TBA	Kamakaka,R.T.	R
31667		BIOL-280J-01		Macromoleculr Cmplx	2	SEM	W		12:30P-01:40P		TBA	Jurica,M.S.	R
31669		BIOL-280K-01		Cell Cycle Research	2	SEM	W		12:30P-01:40P		TBA	Kellogg,D.	R
31671		BIOL-280L-01		Neural Development	2	SEM	W		12:30P-01:40P		TBA	Hinck,L.	R
31673		BIOL-280N-01		Function of Ribosom	2	SEM	W		12:30P-01:40P		TBA	Noller,H.F.	R
31675		BIOL-280O-01		Bacterial Pathogen	2	SEM	W		12:30P-01:30P		TBA	Ottemann,K.M.	R
32249		BIOL-280Q-01		Oocyte/Embry/Neuron	2	SEM	W		12:30P-01:40P		TBA	Saxton,W.M.	R
31755		BIOL-280R-01		Nuclear Pore Complex	2	SEM	W		12:30P-01:40P		TBA	Rexach,M.	R
32251		BIOL-280S-01		Chrom/RNA reg	2	SEM	W		12:30P-01:40P		TBA	Strome,S.	R
33559		BIOL-280T-01		Drosophila Develpmt	2	SEM	W		12:30P-01:40P		TBA	Tamkun,J.W.	R
31677		BIOL-280U-01		Drosophila Embryo	2	SEM	W		12:30P-01:40P		TBA	Sullivan,W.	R
36231		BIOL-280W-01		Membrane Proteins	2	SEM	W		12:30P-01:40P		TBA	Bowman,B.J.	R
32253		BIOL-280Y-01		Synaptic Plasticity	2	SEM	W		12:30P-01:40P		TBA	Zuo,Y.	R
31655		BIOL-291-01		Mol Cell Devel Bio	2	SEM	M		12:30P-01:40P		N. Sci Annex 101	Staff	R
11911		BIOL-292-01		MCD Seminar	0	SEM	F		12:30P-01:40P		N. Sci Annex 101	Staff	R

Biomolecular Engineering

36242		BME-5-01		Intro to Biotech	5	N	LEC	MWF	02:00P-03:10P		J Baskin Engr 152	Staff	
36243		BME-5-01A		Discussion			DIS		**To Be Arranged**			Staff	
36244		BME-5-01B		Discussion			DIS		**To Be Arranged**			Staff	
31401		BME-80G-01		Bioethics 21st Cent	5	6	LEC	TTh	02:00P-03:45P		Earth&Marine B206	Akeson,M.A.	
				<i>Enroll in lecture and associated discussion section; also offered as PHIL 80G</i>									
31403		BME-80G-01A		Discussion			DIS		**To Be Arranged**			Staff	
31405		BME-80G-01B		Discussion			DIS		**To Be Arranged**			Staff	
31407		BME-80G-01C		Discussion			DIS		**To Be Arranged**			Staff	
31409		BME-80G-01D		Discussion			DIS		**To Be Arranged**			Staff	
31411		BME-80G-01E		Discussion			DIS		**To Be Arranged**			Staff	
31413		BME-80G-01F		Discussion			DIS		**To Be Arranged**			Staff	

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31415		BME-80G-01G		Discussion		DIS			**To Be Arranged**			Staff	
31417		BME-80G-01H		Discussion		DIS			**To Be Arranged**			Staff	
32555		BME-80G-01I		Discussion		DIS			**To Be Arranged**			Staff	
32557		BME-80G-01J		Discussion		DIS			**To Be Arranged**			Staff	
32569		BME-80G-01K		Discussion		DIS			**To Be Arranged**			Staff	
32571		BME-80G-01L		Discussion		DIS			**To Be Arranged**			Staff	
36245		BME-110-01		Comp Bio Tools	5	LAB	TTh		04:00P-05:45P		Engineer 2 192	Gerloff,D.L.	R
				<i>Also offered as BIOL 181.</i>									
36246		BME-110-01A		Discussion		DIS			**To Be Arranged**			Staff	
36247	Y	BME-123A-01		Engr Design Proj I	5	LEC	MW		05:00P-06:45P		J Baskin Engr 165	Karplus,K. Veseky,J.F.	
				<i>Also offered as CMPE 123A and EE 123A.</i>									
34079		BME-140-01		Bioinstrumentation	5	LEC	MWF		09:30A-10:40A		Crown Clrm 201	Pourmand,N.	R
12687		BME-200-01		Teach Bioinformatic	3	LEC	TTh		04:00P-05:45P		PhysSciences 305	Lowe,T.M.	R
30951		BME-205-01		BioinfoModel/Algorith	5	LEC	MWF		02:00P-03:10P		PhysSciences 305	Karplus,K.	R
36259		BME-207-01		Biomol Recognition	5	LEC	TTh		10:00A-11:45A		PhysSciences 305	Forsberg,C.E.	R
12689		BME-280B-01		Bioinformatics Sem	2	SEM	Th		12:00P-01:45P		PhysSciences 305	Gerloff,D.L.	
36534		BME-281B-01		HIV VaccineResearch	2	SEM			**To Be Arranged**			Berman,P.W.	R
35727		BME-281F-01		Blood Cell Dev	2	SEM			**To Be Arranged**			Forsberg,C.E.	R
33047		BME-281G-01		Sem Prot Struc Func	2	SEM			**To Be Arranged**			Gerloff,D.L.	R
30305		BME-281H-01		Sem Compar Genomics	2	SEM			**To Be Arranged**			Haussler,D.	R
30307		BME-281K-01		Sem Prot Struc Pred	2	SEM			**To Be Arranged**			Karplus,K.	R
31421		BME-281L-01		Sem Comput Genetics	2	SEM			**To Be Arranged**			Lowe,T.M.	R
36286		BME-281P-01		Nanotech/Biosensors	2	SEM			**To Be Arranged**			Pourmand,N.	R
30425		BME-281S-01		Sem Comput Genomics	2	SEM			**To Be Arranged**			Stuart,J.M.	R

Chemistry and Biochemistry

12691		CHEM-1A-01		General Chemistry	5	NQ	LEC	TTh	10:00A-11:45A		ClassroomUnit 002	Sleich,T.W.	
				<i>Enroll in lecture and associated discussion section</i>									
12693		CHEM-1A-01A		Discussion			DIS		**To Be Arranged**			Staff	
12695		CHEM-1A-01B		Discussion			DIS		**To Be Arranged**			Staff	
12697		CHEM-1A-01C		Discussion			DIS		**To Be Arranged**			Staff	
12699		CHEM-1A-01D		Discussion			DIS		**To Be Arranged**			Staff	
12701		CHEM-1A-01E		Discussion			DIS		**To Be Arranged**			Staff	
12703		CHEM-1A-01F		Discussion			DIS		**To Be Arranged**			Staff	
12705		CHEM-1A-01G		Discussion			DIS		**To Be Arranged**			Staff	
12707		CHEM-1A-01H		Discussion			DIS		**To Be Arranged**			Staff	
12709		CHEM-1A-01I		Discussion			DIS		**To Be Arranged**			Staff	
12711		CHEM-1A-01J		Discussion			DIS		**To Be Arranged**			Staff	
12713		CHEM-1A-01K		Discussion			DIS		**To Be Arranged**			Staff	
12715		CHEM-1A-01L		Discussion			DIS		**To Be Arranged**			Staff	
30577		CHEM-1A-02		General Chemistry	5	NQ	LEC	MWF	11:00A-12:10P		Media Theater M110	Roland,R.E.	
				<i>Enroll in lecture and associated discussion section</i>									
30579		CHEM-1A-02A		Discussion			DIS		**To Be Arranged**			Staff	
30581		CHEM-1A-02B		Discussion			DIS		**To Be Arranged**			Staff	
30583		CHEM-1A-02C		Discussion			DIS		**To Be Arranged**			Staff	
30585		CHEM-1A-02D		Discussion			DIS		**To Be Arranged**			Staff	
30587		CHEM-1A-02E		Discussion			DIS		**To Be Arranged**			Staff	
30589		CHEM-1A-02F		Discussion			DIS		**To Be Arranged**			Staff	
31431		CHEM-1A-02G		Discussion			DIS		**To Be Arranged**			Staff	
31433		CHEM-1A-02H		Discussion			DIS		**To Be Arranged**			Staff	
33821		CHEM-1C-01		General Chemistry	5	NQ	LEC	MWF	11:00A-12:10P		Humn Lecture 206	Bogomolni,R.A.	R
				<i>Enroll in lecture and associated discussion section; concurrent enrollment in CHEM 1N is required.</i>									
33823		CHEM-1C-01A		Discussion			DIS		**To Be Arranged**			Staff	
33825		CHEM-1C-01B		Discussion			DIS		**To Be Arranged**			Staff	

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33827		CHEM-1C-01C		Discussion		DIS			**To Be Arranged**			Staff	
33829		CHEM-1C-01D		Discussion		DIS			**To Be Arranged**			Staff	
33831		CHEM-1C-01E		Discussion		DIS			**To Be Arranged**			Staff	
33833		CHEM-1C-01F		Discussion		DIS			**To Be Arranged**			Staff	
33835		CHEM-1C-01G		Discussion		DIS			**To Be Arranged**			Staff	
32559		CHEM-1N-01		Gen Chem Lab	2	LAB	T		09:00A-12:00P		Nat Sci 2 273	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33849		CHEM-1N-02		Gen Chem Lab	2	LAB	T		09:00A-12:00P		Nat Sci 2 283	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33851		CHEM-1N-03		Gen Chem Lab	2	LAB	T		09:00A-12:00P		Nat Sci 2 289	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33853		CHEM-1N-04		Gen Chem Lab	2	LAB	T		12:30P-03:30P		Nat Sci 2 273	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33855		CHEM-1N-05		Gen Chem Lab	2	LAB	T		12:30P-03:30P		Nat Sci 2 283	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33857		CHEM-1N-06		Gen Chem Lab	2	LAB	T		12:30P-03:30P		Nat Sci 2 289	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33859		CHEM-1N-07		Gen Chem Lab	2	LAB	W		04:00P-07:00P		Nat Sci 2 273	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33861		CHEM-1N-08		Gen Chem Lab	2	LAB	W		04:00P-07:00P		Nat Sci 2 283	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33863		CHEM-1N-09		Gen Chem Lab	2	LAB	W		04:00P-07:00P		Nat Sci 2 289	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33865		CHEM-1N-10		Gen Chem Lab	2	LAB	W		04:00P-07:00P		Nat Sci 2 273	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33867		CHEM-1N-11		Gen Chem Lab	2	LAB	W		04:00P-07:00P		Nat Sci 2 283	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33869		CHEM-1N-12		Gen Chem Lab	2	LAB	W		04:00P-07:00P		Nat Sci 2 289	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33871		CHEM-1N-13		Gen Chem Lab	2	LAB	Th		09:00A-12:00P		Nat Sci 2 273	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33873		CHEM-1N-14		Gen Chem Lab	2	LAB	Th		09:00A-12:00P		Nat Sci 2 283	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33875		CHEM-1N-15		Gen Chem Lab	2	LAB	Th		09:00A-12:00P		Nat Sci 2 289	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33877		CHEM-1N-16		Gen Chem Lab	2	LAB	Th		12:30P-03:30P		Nat Sci 2 267	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
33879		CHEM-1N-17		Gen Chem Lab	2	LAB	Th		12:30P-03:30P		Nat Sci 2 289	Roland,R.E.	R
				<i>Concurrent enrollment in CHEM 1C is required</i>									
32225		CHEM-1P-01		Chem Essentials	3	LEC	TTh		12:00P-01:45P		N. Sci Annex 101	Roland,R.E.	
				<i>Enroll in lecture and associated discussion section</i>									
32227		CHEM-1P-01A		Discussion		DIS			**To Be Arranged**			Staff	
32229		CHEM-1P-01B		Discussion		DIS			**To Be Arranged**			Staff	
32231		CHEM-1P-01C		Discussion		DIS			**To Be Arranged**			Staff	
32233		CHEM-1P-01D		Discussion		DIS			**To Be Arranged**			Staff	
12731		CHEM-108A-01		Organic Chemistry	5	LEC	TTh		10:00A-11:45A		Earth&Marine B206	Bernasconi,C.F.	R
				<i>Enroll in lecture and associated discussion section</i>									
12733		CHEM-108A-01A		Discussion		DIS			**To Be Arranged**			Staff	
12735		CHEM-108A-01B		Discussion		DIS			**To Be Arranged**			Staff	
12737		CHEM-108A-01C		Discussion		DIS			**To Be Arranged**			Staff	
12739		CHEM-108A-01D		Discussion		DIS			**To Be Arranged**			Staff	
12741		CHEM-108A-01E		Discussion		DIS			**To Be Arranged**			Staff	
12743		CHEM-108A-01F		Discussion		DIS			**To Be Arranged**			Staff	
12745		CHEM-108A-01G		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
12747		CHEM-108A-01H		Discussion		DIS			**To Be Arranged**			Staff	
12749		CHEM-108A-01I		Discussion		DIS			**To Be Arranged**			Staff	
12751		CHEM-108A-01J		Discussion		DIS			**To Be Arranged**			Staff	
12753		CHEM-108A-01K		Discussion		DIS			**To Be Arranged**			Staff	
12757		CHEM-108L-01		Organic Chem Lab	2	LAB	F		08:00A-09:10A		Earth&Marine B206	Palleros,D.	R
				<i>Enroll in lab and associated secondary lab</i>									
12759		CHEM-108L-01A		Secondary Lab		LBS	T		12:15P-04:15P		Thimann Lab 257	Staff	
12761		CHEM-108L-01B		Secondary Lab		LBS	T		12:15P-04:15P		Thimann Lab 261	Staff	
12763		CHEM-108L-01C		Secondary Lab		LBS	T		12:15P-04:15P		Thimann Lab 271	Staff	
12765		CHEM-108L-01D		Secondary Lab		LBS	T		04:45P-08:45P		Thimann Lab 257	Staff	
12767		CHEM-108L-01E		Secondary Lab		LBS	T		04:45P-08:45P		Thimann Lab 261	Staff	
12769		CHEM-108L-01F		Secondary Lab		LBS	T		04:45P-08:45P		Thimann Lab 271	Staff	
12771		CHEM-108L-01G		Secondary Lab		LBS	W		08:00A-12:00P		Thimann Lab 257	Staff	
12773		CHEM-108L-01H		Secondary Lab		LBS	W		08:00A-12:00P		Thimann Lab 261	Staff	
12775		CHEM-108L-01I		Secondary Lab		LBS	W		08:00A-12:00P		Thimann Lab 271	Staff	
12777		CHEM-108L-01J		Secondary Lab		LBS	W		02:00P-06:00P		Thimann Lab 257	Staff	
12779		CHEM-108L-01K		Secondary Lab		LBS	W		02:00P-06:00P		Thimann Lab 261	Staff	
12781		CHEM-108L-01L		Secondary Lab		LBS	W		02:00P-06:00P		Thimann Lab 271	Staff	
12783		CHEM-108L-01M		Secondary Lab		LBS	Th		12:15P-04:15P		Thimann Lab 261	Staff	
12785		CHEM-108L-01N		Secondary Lab		LBS	Th		12:15P-04:15P		Thimann Lab 271	Staff	
12787		CHEM-108L-01O		Secondary Lab		LBS	Th		04:45P-08:45P		Thimann Lab 261	Staff	
29289		CHEM-108L-01P		Secondary Lab		LBS	Th		04:45P-08:45P		Thimann Lab 271	Staff	
12789		CHEM-112A-01		Organic Chemistry	5	LEC	TTh		10:00A-11:45A		N. Sci Annex 101	Konopelski,J.P.	R
				<i>Enroll in lecture and associated discussion section; concurrent enrollment in 112L is required</i>									
12791		CHEM-112A-01A		Discussion		DIS			**To Be Arranged**			Staff	
12793		CHEM-112A-01B		Discussion		DIS			**To Be Arranged**			Staff	
12795		CHEM-112A-01C		Discussion		DIS			**To Be Arranged**			Staff	
12797		CHEM-112A-01D		Discussion		DIS			**To Be Arranged**			Staff	
12799		CHEM-112L-01		Organic Chem Lab	2	LAB	F		11:00A-12:10P		N. Sci Annex 101	Palleros,D.	R
				<i>Enroll in lab and associated secondary lab; concurrent enrollment in 112A is required</i>									
12801		CHEM-112L-01A		Secondary Lab		LBS	T		12:00P-04:00P		Thimann Lab 275	Staff	
12803		CHEM-112L-01B		Secondary Lab		LBS	T		04:30P-08:30P		Thimann Lab 275	Staff	
12805		CHEM-112L-01C		Secondary Lab		LBS	W		11:00A-03:00P		Thimann Lab 275	Staff	
12807		CHEM-112L-01D		Secondary Lab		LBS	W		03:30P-07:30P		Thimann Lab 275	Staff	
30427		CHEM-112L-01E		Secondary Lab		LBS	Th		12:00P-04:00P		Thimann Lab 275	Staff	
12809		CHEM-122-01		Instrumental Analys	5	W	LEC	WF	11:00A-12:10P		N. Sci Annex 102	Oliver,S.R.	R
12811		CHEM-122-01A		Secondary Lab		LBS	MTWThF		01:00P-05:00P		Nat Sci 2 261	Staff	
12813		CHEM-143-01		Org Chem Structure	5	LEC	TTh		10:00A-11:45A		PhysSciences 130	Singaram,B.	R
30591		CHEM-146A-01		Adv Lab Organic	2	LAB	TTh		01:00P-05:00P		Thimann Lab 249	Braslau,R.	R
12815		CHEM-163A-01		Quantum Mech & Spec	5	LEC	MWF		09:30A-10:40A		Kresge Clrm 321	Millhauser,G.L.	R
				<i>Enroll in lecture and associated discussion section</i>									
12817		CHEM-163A-01A		Discussion		DIS			**To Be Arranged**			Staff	
12819		CHEM-163A-01B		Discussion		DIS			**To Be Arranged**			Staff	
12821		CHEM-163A-01C		Discussion		DIS			**To Be Arranged**			Staff	
12823		CHEM-163A-01D		Discussion		DIS			**To Be Arranged**			Staff	
12825		CHEM-164A-01		Data Analysis Lab	2	LAB	M		11:00A-12:10P		N. Sci Annex 102	Chen,S.	R
13227		CHEM-200A-01		Adv Biophys Methods	5	LEC	MWF		09:30A-10:40A		Soc Sci I 145	Scott,W.G.	
13229		CHEM-240E-01		Mod Synthetic Metho	3	LEC	TTh		08:00A-09:45A		J Baskin Engr 169	Singaram,B.	R
36456		CHEM-240F-01		Selectivity & Strat	3	LEC	TTh		10:00A-11:45A		Thimann Lab 101	Braslau,R.	R
36457		CHEM-263-01		Quantum Mechanics	5	LEC	TTh		10:00A-11:45A		Crown Clrm 104	Zhang,J.Z.	R
33957		CHEM-269-01		Electrochemistry	5	LEC	MWF		08:00A-09:10A		J Baskin Engr 169	Chen,S.	R
30419		CHEM-274-01		Prosem Synth/Polymr	5	SEM	T		05:00P-08:00P		PhysSciences 357	Braslau,R.	
31053		CHEM-275-01		Bio Inorganic Chem	5	SEM	M		12:30P-02:00P		PhysSciences 357	Holman,T.R.	
13231		CHEM-282-01		Synthetic Methods	5	SEM	Th		02:00P-04:00P		PhysSciences 357	Singaram,B.	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
13233		CHEM-283-01		Prosem Phys O Chem	5	SEM	W		07:00P-10:00P		PhysSciences 357	Bernasconi,C.F.	
13235		CHEM-284-01		Prosem Syn Org Chem	5	SEM	M		05:30P-07:30P		PhysSciences 357	Konopelski,J.P.	
13237		CHEM-285-01		Photobiochem & Bio	5	LEC	M		12:30P-01:40P		PhysSciences 257	Bogomolni,R.A.	
13239		CHEM-286-01		Prosem Nat Pro Chem	5	SEM	W		02:00P-04:30P		PhysSciences 357	Crews,P.O.	
13241		CHEM-288-01		Prosem In Bioinorga	5	SEM	Th		02:00P-03:45P		PhysSciences 257	Mascharak,P.	
13243		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>									
13245		CHEM-291B-01		Biochem Seminar	5	SEM	W		03:30P-04:40P		PhysSciences 240	Rubin,S.M.	R
				<i>Taught in conjunction with CHEM 291D</i>									
13247		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>									
13249		CHEM-291D-01		Physical Research	5	SEM	W		03:30P-04:40P		PhysSciences 240	Li,Y.	R
				<i>Taught in conjunction with CHEM 291B</i>									
13251		CHEM-292-01		Seminar	2	SEM	F		03:30P-04:40P		PhysSciences 240	Stone,M.D.	R
13253		CHEM-296-01		Teaching Chemistry	2	SEM	M		12:30P-01:40P		Kresge Clrm 325	Roland,R.E.	

Chinese

13547		CHIN-1-01		Chinese: Mandarin	5	LEC	MWF		08:00A-09:10A		Hum & Soc Sci 350	Keenan,D.L.	
13549		CHIN-1-02		Chinese: Mandarin	5	LEC	MWF		09:30A-10:40A		Hum & Soc Sci 350	Keenan,D.L.	
13551		CHIN-1-03		Chinese: Mandarin	5	LEC	MWF		12:30P-01:40P		Eight Acad 242	Keenan,D.L.	
13553		CHIN-4-01		Intermed Chinese	5	H	LEC	MWF	08:00A-09:10A		Soc Sci 2 159	Staff	R
13555		CHIN-50-01		Preadvanced Chinese	5	H	SEM	MWF	09:30A-10:40A		Soc Sci 2 159	Staff	R

Community Studies

13657		CMMU-70-01		Video Lab	2	LAB	T		02:00P-03:45P		Soc Sci 2 047	Staff	R
13659		CMMU-70-02		Video Lab	2	LAB	Th		02:00P-03:45P		Soc Sci 2 047	Staff	R
13661		CMMU-70-03		Video Lab	2	LAB	F		10:00A-11:45A		Soc Sci 2 047	Staff	R
13665		CMMU-72-01		Audio Lab	2	LAB	Th		10:00A-11:45A		Soc Sci 2 047	Staff	R
31983		CMMU-73-01		Digital Photo Lab	2	LAB	M		02:00P-03:45P		Soc Sci 2 047	Staff	R
33049		CMMU-73-02		Digital Photo Lab	2	LAB	W		10:00A-11:45A		Soc Sci 2 047	Staff	R
36458		CMMU-73-03		Digital Photo Lab	2	LAB	F		03:00P-04:45P		Soc Sci 2 047	Staff	R
31991		CMMU-80B-01		Civil Rights Movmnt	5	3E	LEC	MWF	12:30P-01:40P		Oakes Acad 105	Brundage,D.T.	
				<i>Enroll in lecture and associated discussion section</i>									
31993		CMMU-80B-01A		Discussion		DIS	M		11:00A-12:10P		Oakes Acad 106	Staff	
31995		CMMU-80B-01B		Discussion		DIS	T		08:30A-09:40A		Oakes Acad 222	Staff	
31997		CMMU-80B-01C		Discussion		DIS	W		08:00A-09:10A		Oakes Acad 106	Staff	
31999		CMMU-80B-01D		Discussion		DIS	Th		06:00P-07:10P		Oakes Acad 222	Staff	
35439		CMMU-80B-01E		Discussion		DIS	Th		07:30P-08:40P		Oakes Acad 222	Staff	
35441		CMMU-80B-01F		Discussion		DIS	F		09:30A-10:40A		Oakes Acad 222	Staff	
13667		CMMU-80L-01		Soc Documentation	5	3	LEC	TTh	06:00P-07:45P		Kresge Clrm 327	Staff	
13669		CMMU-80L-01A		Discussion		DIS	W		05:30P-06:40P		Oakes Acad 103	Staff	
13671		CMMU-80L-01B		Discussion		DIS	Th		08:30A-09:40A		Oakes Acad 103	Staff	
13673		CMMU-80L-01C		Discussion		DIS	Th		02:00P-03:10P		Oakes Acad 103	Staff	
13675		CMMU-80L-01D		Discussion		DIS	F		11:00A-12:10P		Soc Sci 2 141	Staff	
36461	Y	CMMU-100E-01		Economic Justice	5	SE	SEM	TTh	02:00P-03:45P		Eight Acad 242	Pudup,M.B.	
								Th	04:00P-05:45P		Kresge Clrm 327		
32001	Y	CMMU-100J-01		Immigrtn Soc Justic	5	SE	SEM	TTh	12:00P-01:45P		Merrill Acad 132	Brundage,D.T.	
								Th	04:00P-05:45P		Kresge Clrm 327		
36473		CMMU-110-01		Resistnce/Soc Mvmnt	5	E	SEM	TTh	04:00P-05:45P		Oakes Acad 106	Staff	
36463		CMMU-122-01		Whiteness & Racism	5	E	SEM	MW	05:00P-06:45P		Oakes Acad 222	Wellman,D.T.	
36464		CMMU-152-01		Mediating Desire	5	E	LEC	MW	05:00P-06:45P		Eight Acad 240	Ochoa,M.	
36465		CMMU-152-01A		Discussion		DIS	W		09:30A-10:40A		Kresge Clrm 325	Staff	
36466		CMMU-152-01B		Discussion		DIS	Th		08:30A-09:40A		Oakes Acad 102	Staff	
36467		CMMU-161-01		Womens Health Activ	5	LEC	TTh		12:00P-01:45P		Kresge Clrm 321	Steiner,A.	
36468		CMMU-161-01A		Discussion		DIS	W		11:00A-12:10P		Oakes Acad 106	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
36469		CMMU-161-01B		Discussion		DIS	Th		08:30A-09:40A		Oakes Acad 222	Staff	
36470		CMMU-161-01C		Discussion		DIS	Th		04:00P-05:10P		Oakes Acad 222	Staff	
36471		CMMU-161-01D		Discussion		DIS	F		11:00A-12:10P		Oakes Acad 222	Staff	
36472		CMMU-179-01		Banana Slug News	2	SEM	MW		07:00P-08:45P		Eight Acad 242	Staff	

Computer Engineering

30477		CMPE-1-01		Hands-on Comp Engr	2	LAB	W		03:30P-05:30P		J Baskin Engr 161	Larrabee,T.	R
14125		CMPE-3-01		Personal Computers	5	N	LEC	TTh	10:00A-11:45A		Media Theater M110	Staff	
14127		CMPE-3-01A		Secondary Lab		LBS	M		10:00A-11:30A		MingOng Cmp Lb 108	Staff	
14129		CMPE-3-01B		Secondary Lab		LBS	T		03:00P-04:30P		MingOng Cmp Lb 108	Staff	
29303		CMPE-3-01C		Secondary Lab		LBS	W		02:00P-03:30P		MingOng Cmp Lb 108	Staff	
30667		CMPE-3-01D		Secondary Lab		LBS	Th		11:00A-12:30P		MingOng Cmp Lb 108	Staff	
31601		CMPE-8-01		Robot Automation	5	NQ	LEC	TTh	08:00A-09:45A		J Bask Aud 101	Dunbar,W.B.	R
				<i>Enroll in lecture and associated secondary lab</i>									
32341		CMPE-8-01A		Secondary Lab		LBS			**To Be Arranged**			Staff	
32343		CMPE-8-01B		Secondary Lab		LBS			**To Be Arranged**			Staff	
32345		CMPE-8-01C		Secondary Lab		LBS			**To Be Arranged**			Staff	
33063		CMPE-8-01D		Secondary Lab		LBS			**To Be Arranged**			Staff	
33065		CMPE-8-01E		Secondary Lab		LBS			**To Be Arranged**			Staff	
29357		CMPE-12-01		Com Sys/Assmby Lan	5	NQ	LEC	TTh	08:00P-09:45P		Merrill Acad 102	Staff	R
				<i>Concurrent enrollment in CMPE 12L is required</i>									
14131		CMPE-12L-01		Comp Sys/Lang Lab	2		LAB	MW	09:00A-11:00A		J Baskin Engr 109	Staff	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
14133		CMPE-12L-02		Comp Sys/Lang Lab	2		LAB	MW	11:00A-01:00P		J Baskin Engr 109	Staff	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
33067		CMPE-12L-03		Comp Sys/Lang Lab	2		LAB	TTh	12:00P-02:00P		J Baskin Engr 109	Staff	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
36565		CMPE-12L-04		Comp Sys/Lang Lab	2		LAB	TTh	02:00P-04:00P		J Baskin Engr 109	Staff	R
				<i>Concurrent enrollment in CMPE 12 is required</i>									
14135		CMPE-16-01		Appl Discrete Math	5	Q	LEC	MWF	12:30P-01:40P		J Baskin Engr 152	Larrabee,T.	R
				<i>Enroll in lecture and associated discussion section</i>									
31183		CMPE-16-01A		Discussion		DIS			**To Be Arranged**			Staff	
31185		CMPE-16-01B		Discussion		DIS			**To Be Arranged**			Staff	
31651		CMPE-16-01C		Discussion		DIS			**To Be Arranged**			Staff	
36313		CMPE-80A-01		Universal Access	5	7	LEC	TTh	04:00P-05:45P		Merrill Acad 102	Kurniawan,S.H.	
36314		CMPE-80H-01		HistModernComputing	5	2	LEC	TTh	02:00P-03:45P		Engineer 2 192	Staff	
14137		CMPE-80N-01		Intro to Networking	5	2	LEC	TTh	12:00P-01:45P		Humn Lecture 206	Obraczka,K.	
				<i>Enroll in lecture and associated discussion section</i>									
35739		CMPE-80N-01A		Discussion		DIS			**To Be Arranged**			Staff	
35741		CMPE-80N-01B		Discussion		DIS			**To Be Arranged**			Staff	
36315		CMPE-80N-01C		Intro to Networking	5	2	LEC		**To Be Arranged**			Staff	
36316		CMPE-80N-01D		Intro to Networking	5	2	LEC		**To Be Arranged**			Staff	
14139		CMPE-107-01		Math Methods-Stoch	5		LEC	TTh	02:00P-03:45P		J Baskin Engr 152	Brandwajn,A.	R
32373		CMPE-121-01		Micro System Design	5		LEC	TTh	10:00A-11:45A		J Baskin Engr 372	Chan,P.K.	R
				<i>Concurrent enrollment in CMPE 121L is required</i>									
32441		CMPE-121L-01		Micro Sys Desgn Lab	2		LAB		**To Be Arranged**		J Baskin Engr 161	Chan,P.K.	R
				<i>Concurrent enrollment in CMPE 121 is required</i>									
32665		CMPE-121L-02		Micro Sys Desgn Lab	2		LAB		**To Be Arranged**		J Baskin Engr 161	Chan,P.K.	R
				<i>Concurrent enrollment in CMPE 121 is required</i>									
14141	Y	CMPE-123A-01		Engr Design Proj I	5		LEC	MW	05:00P-06:45P		J Baskin Engr 165	Karplus,K. Vesecky,J.F.	
				<i>Also offered as EE 123A and BME 123A</i>									
36317		CMPE-167-01		Sensing & Sensor Tech	5		LEC	TTh	12:00P-01:45P		Crown Clrm 104	Manduchi,R.	R
36318		CMPE-167L-01		Sensing & Sensor Tech Lab 2		LAB			**To Be Arranged**			Manduchi,R.	R
30669		CMPE-174-01		Intro to EDA Tools	3		LAB		**To Be Arranged**			Staff	R
36319		CMPE-177-01		Appl Graph Theory	5		LEC	MWF	09:30A-10:40A		Soc Sci 2 363	Schlag,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
31649		CMPE-185-01		Tech Writ Comp Eng	5	W	LEC	TTh	04:00P-05:45P		Engineer 2 194	Staff	R
14239		CMPE-200-01		Resrch & Teaching	3		SEM	T	04:00P-05:45P		Kresge Clrm 327	Brandwajn,A. Flanagan,C.A.	R
				<i>Taught in conjunction with CMPS 200</i>									
32007		CMPE-202-01		Comp Architecture	5		LEC	TTh	12:00P-01:45P		Hum & Soc Sci 350	Renau Ardevol,J.	R
30651		CMPE-222-01		Intro Vlsi Design	5		LEC	TTh	06:00P-07:45P		Crown Clrm 104	Guthaus,M.R.	R
36307		CMPE-241-01		FeedbackContrlSystem	5		LEC	TTh	02:00P-03:45P		Porter Acad 144	Rosen,J.	R
				<i>Taught in conjunction with EE 154 and EE 241</i>									
36320		CMPE-248-01		Games in Design	5		LEC	TTh	10:00A-11:45A		Soc Sci 2 137	De Alfaro,L.	R
33085		CMPE-250-01		Multimedia Systems	5		SEM	MW	07:00P-08:45P		Engineer 2 192	Manduchi,R.	R
33087		CMPE-250-50		Multimedia Systems	5		SEM	MW	07:00P-08:45P		SiliconValleyCtr	Manduchi,R.	R
14241		CMPE-252A-01		Computer Networks	5		LEC	MW	05:00P-06:45P		Engineer 2 192	Varma,A.M.	R
35409		CMPE-252A-50		Computer Networks	5		LEC	MW	05:00P-06:45P		SiliconValleyCtr	Varma,A.M.	R
36321		CMPE-259-01		Sensor Networks	5		LEC	TTh	04:00P-05:45P		J Baskin Engr 156	Obraczka,K.	R
36322		CMPE-259-50		Sensor Networks	5		LEC	TTh	04:00P-05:45P		SiliconValleyCtr	Obraczka,K.	R
30955		CMPE-280C-01		Seminar on Control	2		SEM		**To Be Arranged**			Dunbar,W.B. Rosen,J.	R
33081		CMPE-280G-01		VLSI/CAD Seminar	2		SEM		**To Be Arranged**			Guthaus,M.R.	R
32531	Y	CMPE-280N-01		Seminar On Networks	2		SEM		**To Be Arranged**			Garcia-Luna-Aceves,J.J. Obraczka,K.	R
31451		CMPE-280P-01		Parallel Processing	2		SEM		**To Be Arranged**			Renau Ardevol,J.	R
30957		CMPE-280V-01		Seminar:ComputrVision	2		SEM		**To Be Arranged**			Manduchi,R.	R

Computer Science

14893		CMPS-2-01		Computer Literacy	5	N	LEC	MW	05:00P-06:45P		ClassroomUnit 001	Franca,P.B.	
				<i>Enroll in lecture and associated secondary lab</i>									
29327		CMPS-2-01A		Secondary Lab			LBS	MW	09:30A-11:00A		Soc Sci I 135	Staff	
31453		CMPS-2-01B		Secondary Lab			LBS	MW	11:00A-12:30P		Soc Sci I 135	Staff	
29329		CMPS-2-01C		Secondary Lab			LBS	MW	02:00P-03:30P		Soc Sci I 135	Staff	
29331		CMPS-2-01D		Secondary Lab			LBS	TTh	09:00A-10:30A		Soc Sci I 135	Staff	
29333		CMPS-2-01E		Secondary Lab			LBS	TTh	10:30A-12:00P		Soc Sci I 135	Staff	
29335		CMPS-2-01F		Secondary Lab			LBS	TTh	05:30P-07:00P		Soc Sci I 135	Staff	
32507		CMPS-2-01G		Secondary Lab			LBS	MW	01:00P-02:30P		Eight Acad 101	Staff	
33091		CMPS-2-01H		Secondary Lab			LBS	MW	02:30P-04:00P		Eight Acad 101	Staff	
33093		CMPS-2-01I		Secondary Lab			LBS	TTh	11:00A-12:30P		Eight Acad 101	Staff	
34259		CMPS-2-01J		Secondary Lab			LBS	TTh	02:00P-03:30P		Eight Acad 101	Staff	
36536		CMPS-2-01K		Secondary Lab			LBS	TTh	03:30P-05:00P		Eight Acad 101	Staff	
36537		CMPS-2-01L		Secondary Lab			LBS	TTh	05:30P-07:00P		Eight Acad 101	Staff	
34241		CMPS-5P-01		Intro Prog Python	5	N	LEC	MWF	02:00P-03:10P		Kresge Clrm 327	Long,D.D.	
				<i>Enroll in lecture and associated secondary lab</i>									
34243		CMPS-5P-01A		Secondary Lab			LBS		**To Be Arranged**			Staff	
34245		CMPS-5P-01B		Secondary Lab			LBS		**To Be Arranged**			Staff	
14895		CMPS-10-01		Intro Computer Sci	5	N	LEC	TTh	12:00P-01:45P		Media Theater M110	Staff	
30433		CMPS-10-01A		Secondary Lab			LBS	M	03:00P-05:00P		J Baskin Engr 109	Staff	
30435		CMPS-10-01B		Secondary Lab			LBS	T	09:00A-11:00A		J Baskin Engr 109	Staff	
30437		CMPS-10-01C		Secondary Lab			LBS	Th	04:00P-06:00P		J Baskin Engr 109	Staff	
30439		CMPS-10-01D		Secondary Lab			LBS	F	01:00P-03:00P		J Baskin Engr 109	Staff	
30441		CMPS-10-01E		Secondary Lab			LBS	F	03:00P-05:00P		J Baskin Engr 109	Staff	
34321		CMPS-12A-01		Intro Program (Accel)	5	N	LEC	MWF	03:30P-04:40P		Oakes Acad 105	Helmbold,D.P.	R
				<i>Concurrent enrollment in CMPS 12L is required</i>									
32009		CMPS-12B-01		Intro Data Structur	5	N	LEC	MW	05:00P-06:45P		Kresge Clrm 327	Mackey,W.F.	R
				<i>Concurrent enrollment in CMPS 12M is required</i>									
34323		CMPS-12L-01		Comp Prog Lab	2		LAB	M	09:30A-11:00A		J Baskin Engr 105	Helmbold,D.P.	R
				<i>Concurrent enrollment in CMPS 12A is required</i>									
34325		CMPS-12L-02		Comp Prog Lab	2		LAB	T	10:00A-11:30A		J Baskin Engr 105	Helmbold,D.P.	R
				<i>Concurrent enrollment in CMPS 12A 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
34327		CMPS-12L-03		Comp Prog Lab	2	LAB	W		09:30A-11:00A		J Baskin Engr 105	Helmbold,D.P.	R
				<i>Concurrent enrollment in CMPS 12A is required</i>									
36324		CMPS-12L-04		Comp Prog Lab	2	LAB	W		11:00A-12:30P		J Baskin Engr 105	Helmbold,D.P.	R
				<i>Concurrent enrollment in CMPS 12A is required</i>									
36325		CMPS-12L-05		Comp Prog Lab	2	LAB	W		12:30P-02:00P		J Baskin Engr 105	Helmbold,D.P.	R
				<i>Concurrent enrollment in CMPS 12A is required</i>									
36326		CMPS-12L-06		Comp Prog Lab	2	LAB	M		05:00P-06:30P		J Baskin Engr 109	Helmbold,D.P.	R
				<i>Concurrent enrollment in CMPS 12A is required</i>									
36327		CMPS-12L-07		Comp Prog Lab	2	LAB	T		06:00P-07:30P		J Baskin Engr 109	Helmbold,D.P.	R
				<i>Concurrent enrollment in CMPS 12A is required</i>									
32015		CMPS-12M-01		Data Structures Lab	2	LAB	M		12:00P-02:00P		J Baskin Engr 105	Mackey,W.F.	R
				<i>Concurrent enrollment in CMPS 12B is required</i>									
32017		CMPS-12M-02		Data Structures Lab	2	LAB	T		05:00P-07:00P		J Baskin Engr 105	Mackey,W.F.	R
				<i>Concurrent enrollment in CMPS 12B is required</i>									
32019		CMPS-12M-03		Data Structures Lab	2	LAB	Th		01:00P-03:00P		J Baskin Engr 105	Mackey,W.F.	R
				<i>Concurrent enrollment in CMPS 12B is required</i>									
36328		CMPS-12M-04		Data Structures Lab	2	LAB	F		02:00P-04:00P		J Baskin Engr 105	Mackey,W.F.	R
				<i>Concurrent enrollment in CMPS 12B is required</i>									
36329		CMPS-80J-01		Tech Targeted Social	5	7	LEC	TTh	10:00A-11:45A		PhysSciences 110	Davis,J.E.	
				<i>Enroll in lecture and associated discussion section</i>									
36330		CMPS-80J-01A		Discussion			DIS		**To Be Arranged**			Staff	
36331		CMPS-80J-01B		Discussion			DIS		**To Be Arranged**			Staff	
36332		CMPS-80J-01C		Discussion			DIS		**To Be Arranged**			Staff	
14909		CMPS-101-01		Abstract Data Types	5		LEC	MWF	11:00A-12:10P		J Baskin Engr 152	Staff	R
				<i>Enroll in lecture and associated discussion section</i>									
29337		CMPS-101-01A		Discussion			DIS	M	02:00P-04:00P		J Baskin Engr 105	Staff	
29339		CMPS-101-01B		Discussion			DIS	T	12:00P-02:00P		J Baskin Engr 105	Staff	
32481		CMPS-101-01C		Discussion			DIS	W	03:00P-05:00P		J Baskin Engr 105	Staff	
36333		CMPS-101-01D		Discussion			DIS	Th	09:00A-11:00A		J Baskin Engr 105	Staff	
14911		CMPS-104A-01		Fund Compiler Des I	5		LEC	MWF	03:30P-04:40P		Engineer 2 192	Mackey,W.F.	R
14913		CMPS-104A-01A		Secondary Lab			LBS	T	03:00P-05:00P		J Baskin Engr 105	Staff	
14915		CMPS-104A-01B		Secondary Lab			LBS	F	12:00P-02:00P		J Baskin Engr 105	Staff	
33097		CMPS-130-01		Computational Model	5		LEC	MWF	02:00P-03:10P		J Baskin Engr 165	Levinson,R.A.	R
34025		CMPS-130-01A		Discussion			DIS		**To Be Arranged**			Staff	
14917		CMPS-160-01		Intro Comp Graphics	5		LEC	MWF	09:30A-10:40A		Engineer 2 192	Pang,A.	R
				<i>Concurrent enrollment in CMPS 160L is required</i>									
29759		CMPS-160L-01		Comp Graphics Lab	2		LAB	M	12:00P-02:00P		Soc Sci I 135	Pang,A.	R
				<i>Concurrent enrollment in CMPS 160 is required</i>									
31657		CMPS-160L-02		Comp Graphics Lab	2		LAB	T	09:30A-11:30A		Soc Sci I 135	Pang,A.	R
				<i>Concurrent enrollment in CMPS 160 is required</i>									
36334		CMPS-160L-03		Comp Graphics Lab	2		LAB	Th	01:00P-03:00P		Soc Sci I 135	Pang,A.	R
				<i>Concurrent enrollment in CMPS 160 is required</i>									
35537		CMPS-166A-01		Game Theory /Apps I	5		LEC	TTh	12:00P-01:45P		PhysSciences 110	Staff	R
				<i>Also offered as ECON 166A and BIOE 176A</i>									
32549		CMPS-170-01		Game Design I	5		LEC	MWF	03:30P-04:40P		J Baskin Engr 372	Wardrip-Fruin,N.	R
36335		CMPS-180-01		Database Systems I	5		LEC	TTh	04:00P-05:45P		PhysSciences 110	Tan,W.	R
				<i>Enroll in lecture and associated secondary lab</i>									
36336		CMPS-180-01A		Secondary Lab			LBS	M	02:00P-03:45P		Soc Sci I 135	Staff	
36337		CMPS-180-01B		Secondary Lab			LBS	W	02:00P-03:45P		Soc Sci I 135	Staff	
36338		CMPS-180-01C		Secondary Lab			LBS	F	04:00P-05:45P		Soc Sci I 135	Staff	
15039		CMPS-200-01		Research & Teaching	3		SEM	T	04:00P-05:45P		Kresge Clrm 327	Brandwajn,A.	R
				<i>Taught in conjunction with CMPE 200</i>									
15041		CMPS-201-01		Analysis Algorithms	5		LEC	MWF	02:00P-03:10P		J Baskin Engr 372	Van Gelder,A.	R
36339		CMPS-221-01		Adv Operating System	5		LEC	TTh	02:00P-03:45P		J Baskin Engr 156	Brandt,S.A.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
36340		CMPS-242-01		Machine Learning	5	LEC	MW		05:00P-06:45P		Engineer 2 194	Warmuth,M.	R
35605	Y	CMPS-280D-01		Seminar Databases	2	SEM			**To Be Arranged**			Kolaitis,P.	
36342		CMPS-280G-01		Sem Software Engr	2	SEM			**To Be Arranged**			Flanagan,C.A.	R
31653	Y	CMPS-280S-01		Seminar Comp Syst	2	SEM			**To Be Arranged**			Long,D.D.	
32553	Y	CMPS-280S-02		Seminar Comp Syst	2	SEM			**To Be Arranged**			Brandt,S.A.	
36343		CMPS-280W-01		Digital Media	2	SEM			**To Be Arranged**			Wardrip-Fruin,N.	R
34263	Y	CMPS-280X-01		Expressive AI	2	SEM			**To Be Arranged**			Mateas,M.J.	R
36344	Y	CMPS-290B-01		Adv Comput Graphics	5	SEM	MW		05:00P-06:45P		Porter Acad 250	Lodha,S.K.	
36503		CMPS-290G-01		Topics In Sw Engr	5	SEM	MWF		03:30P-04:40P		J Baskin Engr 165	King,J.C.	R

Digital Arts and New Media

29383		DANM-201-01		RecMethods&Approach	5	LEC	W		10:00A-01:00P		Porter Acad 245	Murray,S.E.	R
33107		DANM-202-01		Genealogies/Theories	5	LEC	W		04:00P-07:00P		Porter Acad 245	Staff	R
36308		DANM-204-01		Seeing and Hearing	5	SEM	T		04:00P-07:00P		Oakes Acad 220	Ochoa,M.	R
<i>Also offered as SOCD 204</i>													
31567		DANM-210-01		Project Design Studio	5	STU	M		03:00P-06:00P		Porter Acad 245	Daniel,S.A.	R
34279		DANM-219-01		Electronic/Artmakng	5	STU	M		10:30A-01:30P		Porter Acad 140	Anderson,E.W.	R
36309		DANM-250A-01		Collab Resrch Proj	5	STU	M		11:00A-02:00P		Porter Acad 245	Parker,J.A.	R
36310		DANM-250C-01		Collab Resrch Proj	5	STU			**To Be Arranged**			Cuthbert,D.L.	R
35501	Y	DANM-267-01		Wksp Computer Music	2	STU	W		02:00P-05:00P		Music Center 191A	Elesa,P.Q.	

Also offered as MUSC 267.

Earth and Planetary Sciences

31455		EART-5-01		California Geology	5	N	LEC	TTh	12:00P-01:45P		Thim Lecture 003	Knittle,E.	
<i>Enroll in lecture and associated discussion section; concurrent enrollment in EART 5L is required for majors and minors</i>													
31457		EART-5-01A		Discussion			DIS	T	02:00P-03:00P		Earth&Marine D226	Staff	
31459		EART-5-01B		Discussion			DIS	T	03:00P-04:00P		Earth&Marine D226	Staff	
31461		EART-5-01C		Discussion			DIS	W	12:00P-01:00P		Earth&Marine D226	Staff	
31463		EART-5-01D		Discussion			DIS	W	01:30P-02:30P		Earth&Marine D226	Staff	
31465		EART-5-01E		Discussion			DIS	W	03:00P-04:00P		Earth&Marine D226	Staff	
31467		EART-5-01F		Discussion			DIS	W	04:30P-05:30P		Earth&Marine D226	Staff	
31761		EART-5-01G		Discussion			DIS	Th	09:00A-10:00A		Earth&Marine D226	Staff	
33109		EART-5-01H		Discussion			DIS	Th	10:30A-11:30A		Earth&Marine D226	Staff	
31469		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>													
31471		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>													
31777		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>													
16039		EART-80A-01		Earth Catastrophes	5	2	LEC	MWF	09:30A-10:40A		Earth&Marine B206	Lay,T.	
33137		EART-80A-01A		Discussion			DIS	M	11:00A-12:00P		Earth&Marine D236	Staff	
33139		EART-80A-01B		Discussion			DIS	M	12:30P-01:30P		Earth&Marine D236	Staff	
33141		EART-80A-01C		Discussion			DIS	Th	04:00P-05:00P		Earth&Marine D236	Staff	
36232		EART-80A-01D		Discussion			DIS	Th	05:30P-06:30P		Earth&Marine D236	Staff	
36233		EART-80C-01		Intr Weathr/Climate	5	2Q	LEC	TTh	10:00A-11:45A		Thim Lecture 001	Chuang,P.Y.	
36234		EART-80C-01A		Discussion			DIS	W	03:30P-04:30P		Earth&Marine D236	Staff	
36235		EART-80C-01B		Discussion			DIS	W	05:00P-06:00P		Earth&Marine D236	Staff	
36236		EART-80C-01C		Discussion			DIS	Th	08:30A-09:30A		Earth&Marine D236	Staff	
36237		EART-80C-01D		Discussion			DIS	Th	12:00P-01:00P		Earth&Marine D236	Staff	
33143		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>													
33145		EART-101L-01		Fossil Record Lab	1		LAB	W	09:00A-12:00P		Earth&Marine D250	Clapham,M.E.	R
<i>Concurrent enrollment in EART 101 is required</i>													
36249		EART-101L-02		Fossil Record Lab	1		LAB	W	06:00P-09:00P		Earth&Marine D250	Clapham,M.E.	R
35511		EART-102-01		Marine Geology	5		LEC	TTh	04:00P-05:45P		PhysSciences 130	Delaney,M.L.	R

Also offered as OCEA 280

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
35515		EART-102-01A		Discussion		DIS	M		12:00P-01:10P		Earth&Marine D226	Staff	
35517		EART-102-01B		Discussion		DIS	M		06:00P-07:10P		Earth&Marine D226	Staff	
29319		EART-104-01		Geologic Hazards	5	LEC	TTh		12:00P-01:45P		Earth&Marine D258	Schwartz,S.Y.	R
29321		EART-104-01A		Discussion		DIS	Th		02:00P-04:00P		Earth&Marine D258	Staff	
29323		EART-104-01B		Discussion		DIS	F		10:00A-12:00P		Earth&Marine D258	Staff	
16049		EART-109-01		Field Geology	5	LEC	TTh		10:00A-11:45A		Earth&Marine D258	Schwartz,H.L.	R
				<i>Concurrent enrollment in EART109L is required</i>									
16051		EART-109L-01		Field Geology Lab	2	LAB	W		10:00A-01:00P		Earth&Marine D258	Schwartz,H.L.	
				<i>Concurrent enrollment in EART 109 is required</i>									
16053		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>									
16055		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>									
16057		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>									
16059		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>									
16061		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>									
30941		EART-111-01		Math in Earth Science	5	Q	LEC	TTh	12:00P-01:45P		Earth&Marine D250	Nimmo,W.H.	R
30943		EART-111-01A		Discussion		DIS	T		02:00P-04:00P		Earth&Marine D250	Staff	
30945		EART-111-01B		Discussion		DIS	T		06:00P-08:00P		Earth&Marine D250	Staff	
33147		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>									
33149		EART-150L-01		Structual 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>									
33151		EART-150L-02		Structual 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>									
36250		EART-160-01		Planetary Science	5	LEC	MWF		09:00A-10:10A		Earth&Marine D236	Asphaug,E.	R
16063		EART-190-01		Earth Sci Mentors	1	SEM	M		03:30P-04:40P		Earth&Marine D226	Staff	R
16119		EART-196A-01		Intro Teaching Sem	2	SEM	Th		04:00P-07:00P		Earth&Marine D258	Brodsky,E.E.	R
				<i>Taught in conjunction with EART 203</i>									
16257		EART-203-01		Intro Teaching Sem	2	LEC	Th		04:00P-07:00P		Earth&Marine D258	Brodsky,E.E.	R
				<i>Taught in conjunction with EART 196A</i>									
16259		EART-205-01		Intro Graduate Sem	5	SEM	WF		10:30A-12:15P		Earth&Marine D236	Brodsky,E.E.	R
36251		EART-208-01		Paleoclimatology	5	LEC	MW		12:00P-01:45P		Earth&Marine D250	Sloan,L.	R
36252		EART-209-01		Solid Earth Geochem	5	LEC	TTh		02:00P-03:45P		Earth&Marine D236	Gill,J.B.	R
36569		EART-280D-01		Atmosph/Climate Sci	3	SEM			**To Be Arranged**			Staff	R
36253		EART-290B-01		Topics Glaciology	5	SEM	TTh		10:00A-11:45A		Earth&Marine D236	Tulaczyk,S.M.	R
36254		EART-290F-01		Coastal Processes	2	SEM	W		03:30P-05:00P		TBA	Griggs,G.B.	R
36255		EART-290H-01		Hydrogeology	5	SEM	MW		02:00P-03:45P		Earth&Marine D250	Fisher,A.T.	
16261		EART-292-01		Seminar	0	SEM	T		04:00P-05:45P		N. Sci Annex 101	Koch,P.L.	
16263		EART-292-02		Seminar	0	SEM	F		03:30P-05:15P		Earth&Marine B210	Ravelo,A.C.	

Economics

16599		ECON-1-01		Intro Microeconomic	5	S	LEC	MWF	02:00P-03:10P		ClassroomUnit 002	Flannery,M.	
				<i>Enroll in lecture and associated discussion section</i>									
16601		ECON-1-01A		Discussion		DIS	M		08:00A-09:10A		Engineer 2 194	Staff	
16603		ECON-1-01B		Discussion		DIS	M		11:00A-12:10P		Engineer 2 194	Staff	
16605		ECON-1-01C		Discussion		DIS	M		05:00P-06:10P		Crown Clrm 208	Staff	
16607		ECON-1-01D		Discussion		DIS	M		06:30P-07:40P		Crown Clrm 208	Staff	
16609		ECON-1-01E		Discussion		DIS	T		08:30A-09:40A		Engineer 2 194	Staff	
16611		ECON-1-01F		Discussion		DIS	T		02:00P-03:10P		PhysSciences 140	Staff	
16613		ECON-1-01G		Discussion		DIS	W		08:00A-09:10A		Engineer 2 194	Staff	
16615		ECON-1-01H		Discussion		DIS	W		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
16617		ECON-1-01I		Discussion		DIS	Th		06:00P-07:10P		PhysSciences 130	Staff	
31825		ECON-1-01J		Discussion		DIS	Th		07:30P-08:40P		PhysSciences 130	Staff	
16619		ECON-1-01K		Discussion		DIS	F		09:30A-10:40A		Engineer 2 194	Staff	
16621		ECON-1-01L		Discussion		DIS	F		11:00A-12:10P		Engineer 2 194	Staff	
16623		ECON-2-01		Intro Macroeconomic	5 S	LEC	MWF		11:00A-12:10P		ClassroomUnit 002	Hutchison,M.M.	
<i>Enroll in lecture and associated discussion section</i>													
16625		ECON-2-01A		Discussion		DIS	M		03:30P-04:40P		PhysSciences 130	Staff	
31475		ECON-2-01B		Discussion		DIS	M		05:00P-06:10P		PhysSciences 130	Staff	
31477		ECON-2-01C		Discussion		DIS	T		06:00P-07:10P		PhysSciences 130	Staff	
29291		ECON-2-01D		Discussion		DIS	T		07:30P-08:40P		PhysSciences 130	Staff	
16627		ECON-2-01E		Discussion		DIS	W		08:00A-09:10A		PhysSciences 130	Staff	
31479		ECON-2-01F		Discussion		DIS	W		02:00P-03:10P		Engineer 2 194	Staff	
31481		ECON-2-01G		Discussion		DIS	W		03:30P-04:40P		Engineer 2 194	Staff	
16629		ECON-2-01H		Discussion		DIS	W		05:00P-06:10P		PhysSciences 130	Staff	
32093		ECON-2-01I		Discussion		DIS	Th		06:00P-07:10P		Engineer 2 192	Staff	
32095		ECON-2-01J		Discussion		DIS	Th		07:30P-08:40P		Engineer 2 192	Staff	
32097		ECON-2-01K		Discussion		DIS	F		02:00P-03:10P		Engineer 2 194	Staff	
32713		ECON-2-01L		Discussion		DIS	F		03:30P-04:40P		Engineer 2 194	Staff	
16631		ECON-10A-01		Econ of Accounting	5	LEC	TTh		04:00P-05:45P		J Bask Aud 101	Shepherd,R.J.	
16633		ECON-10A-01A		Discussion		DIS	M		11:00A-12:10P		Soc Sci 2 171	Staff	
16635		ECON-10A-01B		Discussion		DIS	M		12:30P-01:40P		Soc Sci 2 171	Staff	
16637		ECON-10A-01C		Discussion		DIS	M		02:00P-03:10P		Cowell Acad 216	Staff	
16639		ECON-10A-01D		Discussion		DIS	M		05:00P-06:10P		Oakes Acad 101	Staff	
16641		ECON-10A-01E		Discussion		DIS	W		12:30P-01:40P		Kresge Clrm 319	Staff	
16643		ECON-10A-01F		Discussion		DIS	W		02:00P-03:10P		Kresge Clrm 319	Staff	
31483		ECON-10A-01G		Discussion		DIS	W		03:30P-04:40P		Kresge Clrm 319	Staff	
32701		ECON-10A-01H		Discussion		DIS	W		05:00P-06:10P		Oakes Acad 101	Staff	
32101		ECON-10A-01I		Discussion		DIS	W		06:30P-07:40P		Oakes Acad 101	Staff	
36241		ECON-10A-01J		Discussion		DIS	F		12:30P-01:40P		J Baskin Engr 169	Staff	
16645		ECON-10A-02		Econ of Accounting	5	LEC	MWF		11:00A-12:10P		Earth&Marine B206	Staff	
16647		ECON-10A-02A		Discussion		DIS	M		08:00A-09:10A		Soc Sci 2 171	Staff	
16649		ECON-10A-02B		Discussion		DIS	M		02:00P-03:10P		Soc Sci 2 171	Staff	
31485		ECON-10A-02C		Discussion		DIS	M		03:30P-04:40P		Soc Sci 2 171	Staff	
31487		ECON-10A-02D		Discussion		DIS	T		06:00P-07:10P		Soc Sci 2 171	Staff	
32759		ECON-10A-02E		Discussion		DIS	T		07:30P-08:40P		Soc Sci 2 171	Staff	
33157		ECON-10A-02F		Discussion		DIS	W		08:00A-09:10A		Kresge Clrm 319	Staff	
33159		ECON-10A-02G		Discussion		DIS	W		05:30P-06:40P		Cowell Acad 216	Staff	
35813		ECON-10A-02H		Discussion		DIS	Th		04:00P-05:10P		Oakes Acad 101	Staff	
35815		ECON-10A-02I		Discussion		DIS	F		02:00P-03:10P		J Baskin Engr 169	Staff	
33161		ECON-10A-02J		Discussion		DIS	F		03:30P-04:40P		J Baskin Engr 169	Staff	
16651		ECON-11A-01		Math Methd for Econ	5 NQ	LEC	MWF		08:00A-09:10A		ClassroomUnit 001	Mangel,M.S.	R
<i>Also offered as AMS 11A</i>													
16653		ECON-11A-01A		Discussion		DIS	T		08:30A-09:40A		J Baskin Engr 372	Staff	
16655		ECON-11A-01B		Discussion		DIS	T		12:00P-01:10P		J Baskin Engr 372	Staff	
16657		ECON-11A-01C		Discussion		DIS	W		12:30P-01:40P		J Baskin Engr 372	Staff	
16659		ECON-11A-01D		Discussion		DIS	W		03:30P-04:40P		Porter Acad 144	Staff	
30603		ECON-11A-01E		Discussion		DIS	Th		06:00P-07:10P		J Baskin Engr 165	Staff	
30605		ECON-11A-01F		Discussion		DIS	Th		07:30P-08:40P		J Baskin Engr 165	Staff	
16661		ECON-11B-01		Math Methds Econ II	5 NQ	LEC	MWF		12:30P-01:40P		Kresge Clrm 321	Katznelson,J.R.	R
<i>Also offered as AMS 11B</i>													
16663		ECON-11B-01A		Discussion		DIS	T		06:00P-07:10P		J Baskin Engr 165	Staff	
16665		ECON-11B-01B		Discussion		DIS	T		07:30P-08:40P		J Baskin Engr 165	Staff	
16667		ECON-11B-01C		Discussion		DIS	W		09:30A-10:40A		J Baskin Engr 372	Staff	
16669		ECON-11B-01D		Discussion		DIS	W		05:00P-06:10P		J Baskin Engr 372	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
30607		ECON-11B-01E		Discussion		DIS	W		06:30P-07:40P		J Baskin Engr 372	Staff	
30609		ECON-11B-01F		Discussion		DIS	Th		08:30A-09:40A		J Baskin Engr 372	Staff	
16683		ECON-100A-01		Intermed Microecon	5	LEC	MWF		03:30P-04:40P		ClassroomUnit 001	Marion,J.	R
16685		ECON-100A-01A		Discussion		DIS	M		09:30A-10:40A		Engineer 2 194	Staff	
16687		ECON-100A-01B		Discussion		DIS	T		06:00P-07:10P		Engineer 2 194	Staff	
16689		ECON-100A-01C		Discussion		DIS	T		07:30P-08:40P		Engineer 2 194	Staff	
33173		ECON-100A-01D		Discussion		DIS	W		07:00P-08:10P		Porter Acad 144	Staff	
32103		ECON-100A-02		Intermed Microecon	5	LEC	MWF		02:00P-03:10P		Oakes Acad 105	Yan,H.	R
32105		ECON-100A-02A		Discussion		DIS	W		11:00A-12:10P		Engineer 2 194	Staff	
32107		ECON-100A-02B		Discussion		DIS	Th		06:00P-07:10P		Porter Acad 144	Staff	
32109		ECON-100A-02C		Discussion		DIS	Th		07:30P-08:40P		Porter Acad 144	Staff	
32111		ECON-100A-02D		Discussion		DIS	F		09:30A-10:40A		Porter Acad 144	Staff	
10001		ECON-100B-01		Intermed Macroecon	5	LEC	MW		05:00P-06:45P		Earth&Marine B206	Staff	R
16691		ECON-100B-01A		Discussion		DIS			**To Be Arranged**			Staff	
16693		ECON-100B-01B		Discussion		DIS			**To Be Arranged**			Staff	
16695		ECON-100B-01C		Discussion		DIS			**To Be Arranged**			Staff	
16697		ECON-100B-01D		Discussion		DIS			**To Be Arranged**			Staff	
16699		ECON-100B-01E		Discussion		DIS			**To Be Arranged**			Staff	
35811		ECON-100B-01F		Discussion		DIS			**To Be Arranged**			Staff	
31489		ECON-101-01		Managerial Econ	5	LEC	MW		05:00P-06:45P		Thim Lecture 001	Gonzalez,J.H.	R
33181		ECON-101-01A		Discussion		DIS			**To Be Arranged**			Staff	
35817		ECON-101-01B		Discussion		DIS			**To Be Arranged**			Staff	
36256		ECON-107-01		Economic Justice	5	W	LEC	MWF	09:30A-10:40A		Merrill Acad 102	Staff	R
36257		ECON-107-01A		Discussion			DIS		**To Be Arranged**			Staff	
36258		ECON-107-01B		Discussion			DIS		**To Be Arranged**			Staff	
16701		ECON-111A-01		Intermed Account I	5	LEC	TTh		10:00A-11:45A		J Bask Aud 101	Shepherd,R.J.	R
<i>Taught in conjunction with ECON 209A</i>													
16703		ECON-111A-01A		Discussion			DIS		**To Be Arranged**			Staff	
16705		ECON-111A-01B		Discussion			DIS		**To Be Arranged**			Staff	
16707		ECON-111A-01C		Discussion			DIS		**To Be Arranged**			Staff	
16709		ECON-111A-01D		Discussion			DIS		**To Be Arranged**			Staff	
16711		ECON-111A-01E		Discussion			DIS		**To Be Arranged**			Staff	
16713		ECON-111A-01F		Discussion			DIS		**To Be Arranged**			Staff	
16715		ECON-111A-01G		Discussion			DIS		**To Be Arranged**			Staff	
16717		ECON-111A-01H		Discussion			DIS		**To Be Arranged**			Staff	
16719		ECON-111A-01I		Discussion			DIS		**To Be Arranged**			Staff	
32119		ECON-111A-01J		Discussion			DIS		**To Be Arranged**			Staff	
16721		ECON-113-01		Intro Econometrics	5	Q	LEC	MWF	12:30P-01:40P		J Bask Aud 101	Spearot,A.C.	R
16723		ECON-113-01A		Discussion			DIS		**To Be Arranged**			Staff	
16725		ECON-113-01B		Discussion			DIS		**To Be Arranged**			Staff	
31491		ECON-113-01C		Discussion			DIS		**To Be Arranged**			Staff	
16727		ECON-113-01D		Discussion			DIS		**To Be Arranged**			Staff	
16729		ECON-113-01E		Discussion			DIS		**To Be Arranged**			Staff	
31493		ECON-113-01F		Discussion			DIS		**To Be Arranged**			Staff	
34081		ECON-117A-01		Income Tax Factors	5	LEC	MWF		08:00A-09:10A		J Bask Aud 101	Staff	R
36260		ECON-117A-01A		Discussion			DIS		**To Be Arranged**			Staff	
36261		ECON-117A-01B		Discussion			DIS		**To Be Arranged**			Staff	
36262		ECON-117A-01C		Discussion			DIS		**To Be Arranged**			Staff	
36263		ECON-117A-01D		Discussion			DIS		**To Be Arranged**			Staff	
36264		ECON-117A-01E		Discussion			DIS		**To Be Arranged**			Staff	
36265		ECON-117A-01F		Discussion			DIS		**To Be Arranged**			Staff	
30979		ECON-120-01		Economic Developmnt	5	E	LEC	TTh	08:00A-09:45A		PhysSciences 110	Robinson,J.M.	R
31159		ECON-120-01A		Discussion			DIS		**To Be Arranged**			Staff	
31161		ECON-120-01B		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
36266		ECON-126-01		Why Succeed/Fail	5	LEC	TTh		10:00A-11:45A		Steven Acad 150	Elbaum,B.L.	R
36267		ECON-126-01A		Discussion		DIS			**To Be Arranged**			Staff	
36268		ECON-126-01B		Discussion		DIS			**To Be Arranged**			Staff	
36269		ECON-126-01C		Discussion		DIS			**To Be Arranged**			Staff	
36270		ECON-126-01D		Discussion		DIS			**To Be Arranged**			Staff	
32121		ECON-133-01		Security Markets	5	LEC	MWF		03:30P-04:30P		J Baskin Engr 152	Staff	R
32123		ECON-133-01A		Discussion		DIS			**To Be Arranged**			Staff	
33183		ECON-133-01B		Discussion		DIS			**To Be Arranged**			Staff	
36271		ECON-135-01		Corporate Finance	5	LEC	MWF		09:30A-10:40A		Thim Lecture 001	Staff	R
36272		ECON-135-01A		Discussion		DIS			**To Be Arranged**			Staff	
36273		ECON-135-01B		Discussion		DIS			**To Be Arranged**			Staff	
29293		ECON-136-01		Business Strategy	5	LEC	MWF		11:00A-12:10P		Kresge Clrm 321	Flannery,M.	R
29295		ECON-136L-01		Business Stratgy Lab	2	LAB			**To Be Arranged**			Flannery,M.	R
30611		ECON-138-01		Tecnology & Innovat	5	LEC	MWF		12:30P-01:40P		Soc Sci 1 110	Staff	R
36274		ECON-138-01A		Discussion		DIS			**To Be Arranged**			Staff	
36275		ECON-138-01B		Discussion		DIS			**To Be Arranged**			Staff	
36276		ECON-141-01		Internatl Finance	5	LEC	TTh		12:00P-01:45P		PhysSciences 114	Aizenman,J.	R
36277		ECON-141-01A		Discussion		DIS			**To Be Arranged**			Staff	
36278		ECON-141-01B		Discussion		DIS			**To Be Arranged**			Staff	
33185		ECON-143-01		InternatnlEconPolicy	5	LEC	MWF		09:30A-10:40A		Earth&Marine B214	Hutchison,M.M.	R
30613		ECON-150-01		Public Finance	5	LEC	MWF		12:30P-01:40P		Porter Acad 148	Marion,J.	R
				<i>Taught in conjunction with ECON 250</i>									
36279		ECON-156-01		Health Care/Med Eco	5	LEC	TTh		04:00P-05:45P		Soc Sci 2 071	Dobkin,C.E.	R
36280		ECON-156-01A		Discussion		DIS			**To Be Arranged**			Staff	
36281		ECON-156-01B		Discussion		DIS			**To Be Arranged**			Staff	
36282		ECON-165-01		Experimental Scien	5	W	LEC	TTh	10:00A-11:45A		Engineer 2 194	Oprea,R.D.	R
33187		ECON-166A-01		Game Theory /Apps I	5	LEC	TTh		12:00P-01:45P		PhysSciences 110	Staff	R
				<i>Also offered as CMPS 166A and BIOE 176A</i>									
33189		ECON-166A-01A		Discussion		DIS			**To Be Arranged**			Staff	
36189		ECON-166A-01B		Discussion		DIS			**To Be Arranged**			Staff	
33191		ECON-171-01		Nat Resource Econ	5	LEC	TTh		12:00P-01:45P		Kresge Clrm 327	McCalman,P.	R
35675		ECON-171-01A		Discussion		DIS			**To Be Arranged**			Staff	
35717		ECON-171-01B		Discussion		DIS			**To Be Arranged**			Staff	
36283		ECON-180-01		Labor	5	LEC	TTh		12:00P-01:45P		Soc Sci 2 071	Kletzer,L.G.	R
36284		ECON-180-01A		Discussion		DIS			**To Be Arranged**			Staff	
36285		ECON-180-01B		Discussion		DIS			**To Be Arranged**			Staff	
17015		ECON-200-01		Microecon Analysis	5	LEC	TTh		08:00A-09:45A		Hum & Soc Sci 250	Oprea,R.D.	
17017		ECON-204A-01		Adv Microecon Theor	5	LEC	TTh		04:00P-05:45P		J Baskin Engr 165	McCalman,P.	
17019		ECON-205A-01		Adv Macroecon Theor	5	LEC	MW		02:00P-03:45P		Engineer 2 499	Staff	
17021		ECON-209A-01		Accounting I	5	LEC	TTh		10:00A-11:45A		J Bask Aud 101	Shepherd,R.J.	R
				<i>Taught in conjunction with ECON 111A</i>									
36396	Y	ECON-210A-01		Math Econ Methods	5	LEC			**To Be Arranged**			Staff	
17023		ECON-210B-01		Math Methods Econ	5	LEC			**To Be Arranged**			Costain,J.S.	
33193		ECON-211A-01		Adv Econometrics	5	LEC	TTh		08:00A-09:45A		J Baskin Engr 165	Cheng,A.	
17077		ECON-216-01		Applied Economet I	5	LEC	TTh		12:00P-01:45P		Kresge Acad 194	Fairlie,R.W.	
30997		ECON-234-01		Fin.Instit & Market	5	LEC	TTh		10:00A-11:45A		Porter Acad 249	Staff	R
17079		ECON-240A-01		Adv Intl Trade Thry	5	LEC	MW		05:00P-06:45P		Crown Clrm 104	Spearot,A.C.	R
17081		ECON-241A-01		Adv Intl Finance I	5	LEC	TTh		04:00P-05:45P		Porter Acad 250	Aizenman,J.	
30615		ECON-250-01		Adv Public Finance	5	SEM	MWF		12:30P-01:40P		Porter Acad 148	Marion,J.	
				<i>Taught in conjunction with ECON 150</i>									
17133		ECON-294A-01		Applied Econ Lab	2	LAB	TTh		04:00P-05:45P		Porter Acad 246	Fairlie,R.W.	
17289		ECON-296A-01		3rd Year Ph.D. Sem	5	SEM			**To Be Arranged**			Friedman,D.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
Education													
36215		EDUC-40-01		Identity Schooling	5	S	LEC	MW	05:00P-06:45P		J Baskin Engr 152	Glass,R.	R
36216		EDUC-60-01		Intro to Education	5	SE	LEC	MW	05:00P-06:45P		Humn Lecture 206	Ash,D.B.	
				<i>Enroll in lecture and associated discussion section</i>					<i>Bartlett,L</i>				
36583		EDUC-60-01A		Discussion			DIS		**To Be Arranged**			Staff	
36584		EDUC-60-01B		Discussion			DIS		**To Be Arranged**			Staff	
36585		EDUC-60-01C		Discussion			DIS		**To Be Arranged**			Staff	
36586		EDUC-60-01D		Discussion			DIS		**To Be Arranged**			Staff	
36587		EDUC-60-01E		Discussion			DIS		**To Be Arranged**			Staff	
36588		EDUC-60-01F		Discussion			DIS		**To Be Arranged**			Staff	
36589		EDUC-60-01G		Discussion			DIS		**To Be Arranged**			Staff	
36590		EDUC-60-01H		Discussion			DIS		**To Be Arranged**			Staff	
36591		EDUC-60-01I		Discussion			DIS		**To Be Arranged**			Staff	
36592		EDUC-60-01J		Discussion			DIS		**To Be Arranged**			Staff	
36593		EDUC-60-01K		Discussion			DIS		**To Be Arranged**			Staff	
36594		EDUC-60-01L		Discussion			DIS		**To Be Arranged**			Staff	
36217		EDUC-100B-01		CAL Teach 2: Math	2		SEM	Th	04:00P-05:45P		Thimann Lab 391	Staff	R
36218		EDUC-100C-01		CAL Teach2: Science	2		SEM	T	04:00P-05:45P		Thimann Lab 391	Staff	R
36219		EDUC-128-01		Immigrants And Educ	5	E	LEC	TTh	10:00A-11:45A		Soc Sci 2 179	Gibson,M.A.	R
36220		EDUC-164-01		Urban Education	5	E	LEC	TTh	04:00P-05:45P		Soc Sci 2 179	Gordon,J.A.	R
32133		EDUC-170-01		School/Asian Cultur	5	W	SEM	TTh	10:00A-11:45A		Soc Sci 2 071	Gordon,J.A.	R
30959		EDUC-180-01		Intro To Teaching	5		LEC	TTh	06:00P-07:45P		J Baskin Engr 152	Agarwal,R.	R
				<i>Enroll in lecture and associated discussion section</i>									
36595		EDUC-180-01A		Discussion			DIS		**To Be Arranged**			Staff	
36596		EDUC-180-01B		Discussion			DIS		**To Be Arranged**			Staff	
36597		EDUC-180-01C		Discussion			DIS		**To Be Arranged**			Staff	
36598		EDUC-180-01D		Discussion			DIS		**To Be Arranged**			Staff	
36599		EDUC-180-01E		Discussion			DIS		**To Be Arranged**			Staff	
36600		EDUC-180-01F		Discussion			DIS		**To Be Arranged**			Staff	
33195		EDUC-181-01		Race, Class, Cultur	5	E	LEC	TTh	12:00P-01:45P		Engineer 2 192	Cruz,C.	R
33903		EDUC-200-01		Beg Student Teach	5		LEC	TTh	12:00P-01:45P		Hum & Soc Sci 260	Staff	R
33905		EDUC-200-02		Beg Student Teach	5		LEC	TTh	12:00P-01:45P		Hum & Soc Sci 259	Marchese,T.E.	R
33907		EDUC-200-03		Beg Student Teach	5		LEC	TTh	12:00P-01:45P		Hum & Soc Sci 359	Billiey,F.	R
33909		EDUC-200-04		Beg Student Teach	5		LEC	TTh	05:15P-07:00P		Hum & Soc Sci 259	England,A.	R
33911		EDUC-200-05		Beg Student Teach	5		LEC	TTh	05:15P-07:00P		Hum & Soc Sci 260	Staff	R
33913		EDUC-200-06		Beg Student Teach	5		LEC	TTh	04:00P-05:45P		Hum & Soc Sci 359	Baker,L.M.	R
36221		EDUC-200-07		Beg Student Teach	5		LEC		**To Be Arranged**			Smith,G.D.	R
34029		EDUC-204-01		English Development	5		SEM	M	02:00P-05:00P		Hum & Soc Sci 359	Bunch,G.	R
34031		EDUC-204-02		English Development	5		SEM	W	02:00P-05:00P		Hum & Soc Sci 359	Bunch,G.	R
33915		EDUC-211-01		TopicsElemEducation	2		LEC		12:00A-12:00A		Hum & Soc Sci 359	Staff	R
33917		EDUC-211-02		TopicsElemEducation	2		LEC		12:00A-12:00A		Hum & Soc Sci 359	Staff	R
36223		EDUC-211-03		TopicsElemEducation	2		LEC		**To Be Arranged**		Hum & Soc Sci 359	Staff	R
36224		EDUC-211-04		TopicsElemEducation	2		LEC		**To Be Arranged**		Hum & Soc Sci 359	Staff	R
36226		EDUC-212-01		Lang, Lit, Divers	5		LEC		**To Be Arranged**		Hum & Soc Sci 359	Staff	R
33919		EDUC-220-01		Reading & Lang Arts	5		LEC	TTh	02:00P-03:45P		Merrill Acad 132	Pease-Alvarez,L.	R
33921		EDUC-220-02		Reading & Lang Arts	5		LEC	TTh	04:00P-05:45P		Merrill Acad 132	Pease-Alvarez,L.	R
33923		EDUC-222-01		Math Learn & Teach	5		LEC	M	02:00P-05:00P		Hum & Soc Sci 259	Damm,S.C.	R
33925		EDUC-222-02		Math Learn & Teach	5		LEC	W	05:00P-08:00P		Hum & Soc Sci 259	Hatcher,R.	R
33927		EDUC-226-01		English Teaching	5		SEM	TTh	02:00P-03:45P		Hum & Soc Sci 359	Olsen,B.	R
33929		EDUC-228-01		Math Education	5		LEC	T	02:00P-05:00P		Hum & Soc Sci 260	Moschkovich,J.N.	R
33931		EDUC-230-01		Sci Ed:Resrch/Pract	5		LEC	T	02:00P-05:00P		Hum & Soc Sci 259	Ash,D.B.	R
33933		EDUC-232-01		Social Science	5		SEM	Th	02:00P-05:00P		Hum & Soc Sci 259	Martin,D.A.	R
33935		EDUC-235-01		Intr Educat Inquiry	5		SEM	Th	03:30P-06:30P		Soc Sci I 239	Ogawa,R.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
32469		EDUC-261-01		Think,Learn,Teach	5	SEM	M		10:00A-01:00P		Soc Sci I 239	Moschkovich,J.N.	R
33197		EDUC-269A-01		Doctoral Proseminar	2	SEM	W		02:30P-04:00P		Soc Sci I 239	Olsen,B.	R
29361		EDUC-270A-01		2nd Yr Prof Dev Sem	2	SEM	W		03:00P-04:30P		Soc Sci I 239	Olsen,B.	R
36230		EDUC-289-01		School Organization	5	SEM	W		01:00P-04:00P		Hum & Soc Sci 260	Ogawa,R.T.	R

Electrical Engineering

32513		EE-80S-01		Sustn Eng/Pract	5	7	LEC	TTh	12:00P-01:45P		J Bask Aud 101	Staff	
				<i>Enroll in lecture and associated discussion section</i>									
32561		EE-80S-01A		Discussion			DIS		**To Be Arranged**			Staff	
32563		EE-80S-01B		Discussion			DIS		**To Be Arranged**			Staff	
32565		EE-80S-01C		Discussion			DIS		**To Be Arranged**			Staff	
33201		EE-80S-01D		Discussion			DIS		**To Be Arranged**			Staff	
36296		EE-101-01		Intro Elec Circuits	5		LEC	TTh	02:00P-03:45P		Crown Clrm 208	Liu,W.	R
				<i>Concurrent enrollment in EE 101L is required</i>									
36297		EE-101L-01		Intr Elec Circ Lab	1		LAB		**To Be Arranged**			Liu,W.	R
				<i>Concurrent enrollment in EE 101 is required</i>									
36298		EE-101L-02		Intr Elec Circ Lab	1		LAB		**To Be Arranged**			Liu,W.	R
				<i>Concurrent enrollment in EE 101 is required</i>									
31605		EE-103-01		Signals & Systems	5		LEC	MW	05:00P-06:45P		PhysSciences 114	Friedlander,B.	R
				<i>Enroll in lecture and associated discussion section</i>									
32695		EE-103-01A		Discussion			DIS		**To Be Arranged**			Staff	
33203		EE-103-01B		Discussion			DIS		**To Be Arranged**			Staff	
33071	Y	EE-123A-01		Engr Design Proj I	5		LEC	MW	05:00P-06:45P		J Baskin Engr 165	Karplus,K. Vesecky,J.F.	
				<i>Also offered as CMPE 123A and BME 123A</i>									
33205		EE-130-01		Optoelect/Photonics	5		LEC	TTh	12:00P-01:45P		J Baskin Engr 156	Gu,C.X.	R
				<i>Concurrent enrollment in EE 130L is required: taught in conjunction with EE 230</i>									
33209		EE-130L-01		Optoelectronics Lab	1		LAB		**To Be Arranged**			Gu,C.X.	R
				<i>Concurrent enrollment in EE 130 is required</i>									
29299		EE-145-01		Props Of Materials	5		LEC	TTh	10:00A-11:45A		Engineer 2 192	Kobayashi,N.P.	R
				<i>Concurrent enrollment in EE 145L is required</i>									
29301		EE-145L-01		Props Of Matrlns Lab	1		LAB		**To Be Arranged**			Kobayashi,N.P.	R
				<i>Concurrent enrollment in EE 145 is required</i>									
32139		EE-145L-02		Props Of Matrlns Lab	1		LAB		**To Be Arranged**			Kobayashi,N.P.	R
				<i>Concurrent enrollment in EE 145 is required</i>									
32743		EE-145L-03		Props Of Matrlns Lab	1		LAB		**To Be Arranged**			Kobayashi,N.P.	R
				<i>Concurrent enrollment in EE 145 is required</i>									
36299		EE-154-01		Feedback Cntrl Syst	5		LEC	TTh	02:00P-03:45P		Porter Acad 144	Rosen,J.	R
				<i>Taught in conjunction with CMPE 241 and EE 241</i>									
32371		EE-172-01		Adv Analog Circuits	5		LEC	TTh	04:00P-05:45P		Porter Acad 249	Pedrotti,K.	R
				<i>Taught in conjunction with EE 221</i>									
33211		EE-215-01		MEMS Design	5		LEC	TTh	02:00P-03:45P		Porter Acad 250	Kubby,J.A.	R
32141		EE-221-01		Adv Analog Circuits	5		LEC	TTh	04:00P-05:45P		Porter Acad 249	Pedrotti,K.	R
				<i>Taught in conjunction with EE 172</i>									
33207		EE-230-01		Optical Fiber Comm	5		LEC	TTh	12:00P-01:45P		J Baskin Engr 156	Gu,C.X.	R
				<i>Taught in conjunction with EE 130</i>									
36479		EE-230-50		Optical Fiber Comm	5		LEC	TTh	12:00P-01:45P		SiliconValleyCtr	Gu,C.X.	R
36300		EE-241-01		FeedbackContrlSystem	5		LEC	TTh	02:00P-03:45P		Porter Acad 144	Rosen,J.	R
				<i>Taught in conjunction with CMPE 241 and EE 154</i>									
36301		EE-261-01		ErrorControlCoding	5		LEC	TTh	10:00A-11:45A		Porter Acad 250	Sadjadpour,H.R.	R
33215		EE-262-01		Stat Signal Process	5		LEC	TTh	12:00P-01:45P		Crown Clrm 201	Milanfar,P.	R
33217		EE-280B-01		Intgr Bioelect Sem	2		SEM		**To Be Arranged**			Liu,W.	
31779		EE-280M-01		MEMS Seminar	2		SEM		**To Be Arranged**			Kubby,J.A.	R
31783		EE-2800-01		Applied Optics	2		SEM	F	04:00P-05:00P		J Baskin Engr 046	Schmidt,H.	R
32493		EE-280Q-01		Quantm/Nanoelctrncs	2		SEM		**To Be Arranged**			Shakouri,A.	R
35485		EE-281-01		Guest Seminar Series	1		SEM		**To Be Arranged**			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
Environmental Studies													
18173		ENVS-24-01		General Ecology	5	N	LEC	TTh	02:00P-03:45P		Humn Lecture 206	Washburn,J.O.	
18175		ENVS-24-01A		Discussion			DIS	M	07:00P-08:10P		Humn Lecture 206	Washburn,J.O.	
29305		ENVS-80B-01		Forecast Globl Warm	5	7	LEC	TTh	10:00A-11:45A		Thim Lecture 003	Loik,M.E.	
		ENVS-83-XXX		Internship	5		FLI		**To Be Arranged**			Staff	
30781		ENVS-91F-01		Community /Agroecology	2		SEM	Th	04:00P-07:00P		Agroecology 103	Gliessman,S.R.	
				<i>Taught in conjunction with ENVS 191F</i>									
18281		ENVS-100-01		Ecology and Society	5		LEC	TTh	12:00P-01:45P		Earth&Marine B206	Bury,J.T.	R
				<i>Concurrent enrollment in ENVS 100L is required</i>									
18283		ENVS-100L-01		Ecol & Soc Writ Lab	2	W	LAB	M	08:00A-09:45A		ISB 431	Zavaleta,E.S.	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
18285		ENVS-100L-02		Ecol & Soc Writ Lab	2	W	LAB	M	04:00P-05:45P		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
18287		ENVS-100L-03		Ecol & Soc Writ Lab	2	W	LAB	T	08:00A-09:45A		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
18289		ENVS-100L-04		Ecol & Soc Writ Lab	2	W	LAB	T	04:00P-05:45P		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
18291		ENVS-100L-05		Ecol & Soc Writ Lab	2	W	LAB	T	06:00P-07:00P		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
18293		ENVS-100L-06		Ecol & Soc Writ Lab	2	W	LAB	W	08:00A-09:45A		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
18295		ENVS-100L-07		Ecol & Soc Writ Lab	2	W	LAB	W	04:00P-05:45P		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
18297		ENVS-100L-08		Ecol & Soc Writ Lab	2	W	LAB	Th	08:00A-09:45A		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
31131		ENVS-100L-09		Ecol & Soc Writ Lab	2	W	LAB	F	08:00A-09:45A		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
31133		ENVS-100L-10		Ecol & Soc Writ Lab	2	W	LAB	F	04:00P-05:45P		ISB 431	Staff	R
				<i>Concurrent enrollment in ENVS 100 is required</i>									
29307		ENVS-115A-01		GIS & Envnmntl Applic	5		LEC	MWF	03:30P-04:40P		Soc Sci 2 075	Staff	R
				<i>Concurrent enrollment in ENVS 115L is required; taught in conjunction with ENVS 215A</i>									
29309		ENVS-115L-01		GIS & Envrn App Lab	2		LAB	T	08:00A-11:00A		ISB 486	Staff	R
				<i>Concurrent enrollment in ENVS 115A is required; taught in conjunction with ENVS 215L</i>									
36515		ENVS-115L-02		GIS & Envrn App Lab	2		LAB	T	02:00P-05:00P		ISB 486	Staff	R
				<i>Concurrent enrollment in ENVS 115A is required; taught in conjunction with ENVS 215L</i>									
36516		ENVS-115L-03		GIS & Envrn App Lab	2		LAB	W	12:00P-03:00P		ISB 486	Staff	R
				<i>Concurrent enrollment in ENVS 115A is required; taught in conjunction with ENVS 215L</i>									
36517		ENVS-115L-04		GIS & Envrn App Lab	2		LAB	F	08:00A-10:00A		ISB 486	Staff	R
				<i>Concurrent enrollment in ENVS 115A is required; taught in conjunction with ENVS 215L</i>									
36287		ENVS-122-01		Tropical Ecology	5		LEC	MWF	08:00A-09:10A		N. Sci Annex 101	Gilbert,G.S.	R
				<i>Enroll in lecture and associated discussion section</i>									
36518		ENVS-122-01A		Discussion			DIS	W	02:00P-03:10P		ISB 455	Staff	
36519		ENVS-122-01B		Discussion			DIS	W	05:00P-06:10P		ISB 455	Staff	
36520		ENVS-122-01C		Discussion			DIS	Th	12:00P-01:10P		ISB 455	Staff	
36521		ENVS-122-01D		Discussion			DIS	Th	02:00P-03:10P		ISB 455	Staff	
18299		ENVS-130A-01		Agroeco & Sust Ag	5		LEC	MWF	02:00P-03:10P		Thim Lecture 001	Gliessman,S.R.	R
				<i>Concurrent enrollment in ENVS 130L is required</i>									
18301		ENVS-130L-01		Agroeco & Sust Lab	2		LAB	T	08:30A-11:30A		Agroecology 103	Gliessman,S.R.	
				<i>See Enrollment Conditions for instructions; concurrent enrollment in ENVS 130A is required.</i>									
18303		ENVS-130L-02		Agroeco & Sust Lab	2		LAB	W	08:30A-11:30A		Agroecology 103	Staff	
				<i>See Enrollment Conditions for instructions; concurrent enrollment in ENVS 130A is required.</i>									
18305		ENVS-130L-03		Agroeco & Sust Lab	2		LAB	Th	08:30A-11:30A		Agroecology 103	Staff	
				<i>See Enrollment Conditions for instructions; concurrent enrollment in ENVS 130A 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
18307		ENVS-130L-04		Agroeco & Sust Lab	2	LAB	F		08:30A-11:30A		Agroecology 103	Staff	
				<i>See Enrollment Conditions for instructions; concurrent enrollment in ENVS 130A is required.</i>									
36289		ENVS-141-01		Ecological Econ	5	LEC	TTh		04:00P-05:45P		Eight Acad 240	Richards,A.R.	R
36303		ENVS-158-01		Pol Ecol & Socl Chg	5	SEM	TTh		08:00A-09:45A		ISB 221	Staff	R
18309		ENVS-160-01		Restoration Ecology	5	LEC	MWF		11:00A-12:10P		Kresge Clrm 327	Holl,K.D.	R
				<i>Enroll in lecture and associated discussion section</i>									
36522		ENVS-160-01A		Discussion		DIS	M		02:00P-03:10P		ISB 455	Staff	
36523		ENVS-160-01B		Discussion		DIS	M		05:00P-06:10P		ISB 455	Staff	
36524		ENVS-160-01C		Discussion		DIS	T		08:00A-09:10A		ISB 455	Staff	
36525		ENVS-160-01D		Discussion		DIS	T		10:00A-11:10A		ISB 455	Staff	
31517		ENVS-165-01		Fresh Water Policy	5	LEC	MW		05:00P-06:45P		Soc Sci 2 075	Staff	R
				<i>Enroll in lecture and associated discussion section</i>									
		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>									
36304		ENVS-189-01		Research Seminar	1	SEM	M		12:30P-02:00P		ISB 221	Zavaleta,E.S.	
				<i>Taught in conjunction with ENVS 290</i>									
30783		ENVS-191F-01		Community/Agroecology	2	SEM	Th		04:00P-07:00P		Agroecology 103	Gliessman,S.R.	R
				<i>Taught in conjunction with ENVS 91F</i>									
36305	Y	ENVS-196B-01		Env Policy Analysis	5	SEM			**To Be Arranged**			Press,D.M.	
36350	Y	ENVS-196P-01		Sr Sem:Reg Food Res	5	SEM			**To Be Arranged**			Fitzsimmons,M.I.	
19065		ENVS-201A-01		Keywords & Concepts	5	SEM	MW		10:00A-11:45A		ISB 455	Fitzsimmons,M.I. Gilbert,G.S.	R
32147		ENVS-215A-01		Gis & Envnmtl Applc	5	SEM	MWF		03:30P-04:40P		Soc Sci 2 075	Staff	R
				<i>Concurrent enrollment in ENVS 215L is required; taught in conjunction with ENVS 115A.</i>									
36341		ENVS-215L-01		GIS & Envrn App Lab	2	LAB	T		08:00A-11:00A		ISB 486	Staff	R
				<i>Concurrent enrollemnt in ENVS 215A is required; taught in conjunction with ENVS 115L</i>									
36526		ENVS-215L-02		GIS & Envrn App Lab	2	LAB	T		02:00P-05:00P		ISB 486	Staff	R
				<i>Concurrent enrollemnt in ENVS 215A is required; taught in conjunction with ENVS 115L</i>									
36527		ENVS-215L-03		GIS & Envrn App Lab	2	LAB	W		12:00P-03:00P		ISB 486	Staff	R
				<i>Concurrent enrollemnt in ENVS 215A is required; taught in conjunction with ENVS 115L</i>									
36528		ENVS-215L-04		GIS & Envrn App Lab	2	LAB	F		08:00A-10:00A		ISB 486	Staff	R
				<i>Concurrent enrollemnt in ENVS 215A is required; taught in conjunction with ENVS 115L</i>									
36290		ENVS-230-01		Agro & Sustain Agri	5	SEM	TTh		10:00A-11:45A		ISB 455	Shennan,C.	R
19067		ENVS-290-01		Interdis Research	2	SEM	M		12:30P-02:00P		ISB 221	Zavaleta,E.S.	R
				<i>Taught in conjunction with ENVS 189</i>									
19069		ENVS-290L-01		Research Seminar	2	LAB	M		02:00P-03:10P		ISB 431	Holl,K.D.	R
19071		ENVS-292-01		Research In Envs	2	SEM			**To Be Arranged**			Bury,J.T.	R
19073		ENVS-292-02		Research In Envs	2	SEM			**To Be Arranged**			Cheng,W.	R
19075		ENVS-292-03		Research In Envs	2	SEM			**To Be Arranged**			Fitzsimmons,M.I.	R
30617		ENVS-292-04		Research In Envs	2	SEM			**To Be Arranged**			Gilbert,G.S.	R
19077		ENVS-292-05		Research In Envs	2	SEM			**To Be Arranged**			Gliessman,S.R.	R
19079		ENVS-292-06		Research In Envs	2	SEM			**To Be Arranged**			Haddad,B.M.	R
19081		ENVS-292-07		Research In Envs	2	SEM			**To Be Arranged**			Holl,K.D.	R
19083		ENVS-292-08		Research In Envs	2	SEM			**To Be Arranged**			Letourneau,D.K.	R
19085		ENVS-292-09		Research In Envs	2	SEM			**To Be Arranged**			Loik,M.E.	R
29317		ENVS-292-10		Research In Envs	2	SEM			**To Be Arranged**			Press,D.M.	R
31523		ENVS-292-11		Research In Envs	2	SEM			**To Be Arranged**			Rajan,S.R.	R
31899		ENVS-292-12		Research In Envs	2	SEM			**To Be Arranged**			Richards,A.R.	R
31901		ENVS-292-13		Research In Envs	2	SEM			**To Be Arranged**			Shennan,C.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
32157		ENVS-292-14		Research In Envs	2		SEM		**To Be Arranged**			Tzankova,Z.	R
35519		ENVS-292-15		Research In Envs	2		SEM		**To Be Arranged**			Wilmers,C.C.	R
36291		ENVS-292-16		Research In Envs	2		SEM		**To Be Arranged**			Zavaleta,E.S.	R

Feminist Studies

36431		FMST-80A-01		Feminism/SocJust	5	5	LEC	TTh	02:00P-03:45P		ClassroomUnit 001	Aptheker,B.F.	
<i>Enroll in lecture and associated discussion section</i>													
36432		FMST-80A-01A		Discussion			DIS		**To Be Arranged**			Staff	
36433		FMST-80A-01B		Discussion			DIS		**To Be Arranged**			Staff	
36434		FMST-80A-01C		Discussion			DIS		**To Be Arranged**			Staff	
36435		FMST-80A-01D		Discussion			DIS		**To Be Arranged**			Staff	
36436		FMST-80A-01E		Discussion			DIS		**To Be Arranged**			Staff	
36437		FMST-80A-01F		Discussion			DIS		**To Be Arranged**			Staff	
36438		FMST-80A-01G		Discussion			DIS		**To Be Arranged**			Staff	
36580		FMST-80A-01H		Discussion			DIS		**To Be Arranged**			Staff	
36439		FMST-80B-01		Sexuality/Globalztn	5	5	LEC	TTh	10:00A-11:45A		Kresge Clrm 327	Schaeffer-Grabel,F.	
33593		FMST-80S-01		Women In Music	5	4A	LEC	TTh	12:00P-01:45P		Music Center 131	Merchant,T.H.	
<i>Also offered as MUSC 80S</i>													
33273		FMST-112-01		Women and the Law	5		LEC	TTh	04:00P-05:45P		ClassroomUnit 001	Dent,G.	R
<i>Also offered as POLI 112; mandatory sections to be assigned during first week of class</i>													
33275		FMST-112-01A		Discussion			DIS		**To Be Arranged**			Staff	
33277		FMST-112-01B		Discussion			DIS		**To Be Arranged**			Staff	
33279		FMST-112-01C		Discussion			DIS		**To Be Arranged**			Staff	
33281		FMST-112-01D		Discussion			DIS		**To Be Arranged**			Staff	
33283		FMST-112-01E		Discussion			DIS		**To Be Arranged**			Staff	
33285		FMST-112-01F		Discussion			DIS		**To Be Arranged**			Staff	
36444		FMST-124-01		Technol & Latinidad	5	E	SEM	TTh	04:00P-05:45P		Cowell Acad 223	Schaeffer-Grabel,F.	R
36445		FMST-194D-01		Feminist Science Studies	5		SEM	T	08:45A-11:45A		Merrill Acad 003	Barad,K.M.	R
36446		FMST-240-01		Culture Human Rights	5		SEM	W	05:00P-08:00P		Merrill Acad 039	Fregoso,R.	R
<i>Also offered as LALS 240</i>													

Film and Digital Media

19399		FILM-20A-01		The Film Experience	5	HA	LEC	MW	03:30P-05:15P		Media Theater M110	Limbrick,P.E.	R
<i>Enroll in lecture and associated discussion section</i>													
								M	06:00P-09:00P		Media Theater M110		
19401		FILM-20A-01A		Discussion			DIS	T	09:30A-10:30A		Commun Bldg 121	Staff	
19403		FILM-20A-01B		Discussion			DIS	T	10:45A-11:45A		Commun Bldg 121	Staff	
19405		FILM-20A-01C		Discussion			DIS	T	12:00P-01:00P		Commun Bldg 121	Staff	
19407		FILM-20A-01D		Discussion			DIS	T	01:15P-02:15P		Commun Bldg 121	Staff	
19409		FILM-20A-01E		Discussion			DIS	T	02:30P-03:30P		Commun Bldg 121	Staff	
19411		FILM-20A-01F		Discussion			DIS	T	03:45P-04:45P		Commun Bldg 121	Staff	
19413		FILM-20A-01G		Discussion			DIS	T	09:30A-10:30A		Commun Bldg 121	Staff	
19415		FILM-20A-01H		Discussion			DIS	T	10:45A-11:45A		Commun Bldg 117	Staff	
19417		FILM-20A-01I		Discussion			DIS	T	12:00P-01:00P		Commun Bldg 117	Staff	
36570		FILM-20A-01J		Discussion			DIS	T	01:15P-02:15P		Commun Bldg 117	Staff	
33229		FILM-20C-01		Intro Digital Media	5	HA	LEC	TTh	10:00A-11:45A		Oakes Acad 105	Staff	R
<i>Enroll in lecture and associated discussion section</i>													
33231		FILM-20C-01A		Discussion			DIS	F	09:30A-10:30A		Porter Acad 240	Staff	
33233		FILM-20C-01B		Discussion			DIS	F	10:45A-11:45A		Porter Acad 240	Staff	
33235		FILM-20C-01C		Discussion			DIS	F	12:00P-01:00P		Porter Acad 240	Staff	
33237		FILM-20C-01D		Discussion			DIS	F	01:15P-02:15P		Porter Acad 240	Staff	
33239		FILM-20C-01E		Discussion			DIS	F	02:30P-03:30P		Porter Acad 240	Staff	
33241		FILM-20C-01F		Discussion			DIS	F	03:45P-04:45P		Porter Acad 240	Staff	
31531		FILM-20P-01		Productn Technique	5	A	LEC	TTh	10:00A-11:45A		Commun Bldg 150	Lusztig,I.E.	
<i>Enroll in lecture and associated discussion section</i>													
31533		FILM-20P-01A		Discussion			DIS	Th	09:00A-10:00A		Commun Bldg 121	Staff	
31535		FILM-20P-01B		Discussion			DIS	Th	10:15A-11:15A		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
31537		FILM-20P-01C		Discussion		DIS		Th	11:30A-12:30P		Commun Bldg 121	Staff	
31539		FILM-20P-01D		Discussion		DIS		Th	12:45P-01:45P		Commun Bldg 121	Staff	
34167		FILM-80S-01		Sp Top Film/Dig Med	5	5A	LEC	MW	05:00P-07:00P		Oakes Acad 105	Staff	
19429		FILM-120-01		Intro Film Theory	5	W	LEC	TTh	02:00P-03:45P		Oakes Acad 105	Hastie,A.E.	R
				<i>Enroll in lecture and associated discussion section</i>				T	04:00P-07:00P		Oakes Acad 105		
19431		FILM-120-01A		Discussion		DIS		F	09:30A-10:30A		Commun Bldg 117	Staff	
19433		FILM-120-01B		Discussion		DIS		F	10:45A-11:45A		Commun Bldg 117	Staff	
19435		FILM-120-01C		Discussion		DIS		F	12:00P-01:00P		Commun Bldg 117	Staff	
19437		FILM-120-01D		Discussion		DIS		F	01:15A-02:15A		Commun Bldg 117	Staff	
19439		FILM-120-01E		Discussion		DIS		F	02:30A-03:30A		Commun Bldg 117	Staff	
19441		FILM-120-01F		Discussion		DIS		F	03:45A-04:45A		Commun Bldg 117	Staff	
19443		FILM-120-01G		Discussion		DIS		M	09:30A-10:30A		Commun Bldg 117	Staff	
19445		FILM-120-01H		Discussion		DIS		M	10:45A-11:45A		Commun Bldg 117	Staff	
32727		FILM-120-01I		Discussion		DIS		M	12:00P-01:00P		Commun Bldg 117	Staff	
33245		FILM-120-01J		Discussion		DIS		M	01:15P-02:15P		Commun Bldg 117	Staff	
33247		FILM-132A-01		Internatnl Cinema	5	A	LEC	MW	03:30P-05:15P		Commun Bldg 150	Wang,Y.	R
				<i>Enroll in lecture and associated discussion section</i>									
33249		FILM-132A-01A		Discussion		DIS		T	02:30P-03:30P		Commun Bldg 117	Staff	
33251		FILM-132A-01B		Discussion		DIS		T	03:45P-04:45P		Commun Bldg 117	Staff	
36165		FILM-134B-01		Amer Film:1960-Pres	5		LEC	TTh	04:00P-07:00P		Commun Bldg 150	Benson-Allott,C.	R
				<i>Enroll in lecture and associated discussion section</i>									
36168		FILM-134B-01A		Discussion		DIS		W	10:00A-11:00A		Commun Bldg 117	Staff	
36169		FILM-134B-01B		Discussion		DIS		W	11:15A-12:15P		Commun Bldg 117	Staff	
36170		FILM-134B-01C		Discussion		DIS		W	12:30P-01:30P		Commun Bldg 117	Staff	
36171		FILM-134B-01D		Discussion		DIS		W	01:45P-02:45P		Commun Bldg 117	Staff	
36173		FILM-136C-01		Visual Culture&Tech	5		LEC	TTh	12:00P-01:45P		Commun Bldg 150	Benson-Allott,C.	R
19447	Y	FILM-150-01		Screenwriting	5	W	SEM	T	09:30A-01:30P		Commun Bldg 113	Lord,C.L.	
				<i>See Enrollment Conditions for instructions</i>									
34165		FILM-152-01		Script Analysis	5		LEC	MW	12:30P-02:30P		Commun Bldg 143	Staff	R
31621		FILM-160-01		Film Genres	5	A	LEC	MW	05:30P-07:30P		Commun Bldg 150	Staff	R
34033		FILM-161-01		Documentry Film&Vid	5		LEC	TTh	05:00P-06:45P		Commun Bldg 130	Gustafson,I.	R
33259		FILM-170A-01		Digital Media Prod	5	A	STU	TTh	02:00P-04:30P		Commun Bldg 011	Staff	R
19449	Y	FILM-170B-01		Film/Video Productn	5	A	STU	MW	09:30A-12:00P		Commun Bldg 130	Lord,C.L.	
				<i>See Enrollment Conditions for instructions; enroll in studio and associated secondary studio</i>									
19451		FILM-170B-01A		Secondary Studio			STS	W	12:00P-01:30P		Commun Bldg 130	Lord,C.L.	
36177	Y	FILM-171F-01		AutobiographicalFilm	5		STU	TTh	02:00P-04:30P		Commun Bldg 113	Lusztig,I.E.	
				<i>See Enrollment Conditions for instructions; enroll in studio and associated secondary studio</i>									
36178	Y	FILM-171F-01A		Secondary Studio			STS	Th	04:30P-06:00P		Commun Bldg 113	Lusztig,I.E.	
32159	Y	FILM-172-01		Film & Video Studio	5		STU	MW	01:30P-04:00P		Commun Bldg 130	Staff	
				<i>See Enrollment Conditions for instructions; enroll in studio and associated secondary studio.</i>									
32161		FILM-172-01A		Secondary Studio			STS	W	04:00P-05:30P		Commun Bldg 140	Staff	
31021	Y	FILM-175-01		Documen Video Wkshp	5		STU	TTh	12:30P-03:30P		Commun Bldg 130	Gustafson,I.	
				<i>See Enrollment Conditions for instructions</i>									
19455		FILM-194A-01		Film Theory Seminar	5		SEM	TTh	04:00P-06:00P		Commun Bldg 117	Staff	R
36188		FILM-194S-01		Special Topics Seminar	5		SEM	MW	10:00A-12:00P		Commun Bldg 117	Wang,Y.	R
French													
19541		FREN-1-01		Instr French Lang	5		LEC	MWF	08:00A-09:10A		Steven Acad 152	Hutchison,G.K.	
19543		FREN-1-02		Instr French Lang	5		LEC	MWF	09:30A-10:40A		Kresge Clrm 323	Gautier,C.	
19545		FREN-1-03		Instr French Lang	5		LEC	MWF	11:00A-12:10P		Kresge Clrm 323	Gautier,C.	
19547		FREN-2-01		Instr French Lang	5		LEC	MWF	09:30A-10:40A		PhysSciences 136	Elsley,A.A.	R
19549		FREN-2-02		Instr French Lang	5		LEC	MWF	11:00A-12:10P		PhysSciences 136	Elsley,A.A.	R
19551		FREN-3-01		Instr French Lang	5		LEC	MWF	11:00A-12:10P		Steven Acad 152	Hutchison,G.K.	R
19553		FREN-4-01		Intermed French	5	H	LEC	MWF	02:00P-03:10P		Eight Acad 242	Staff	R
19555		FREN-4-02		Intermed French	5	H	LEC	MWF	03:30P-04:40P		Eight Acad 242	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
19557		FREN-5-01		Intermediate French	5	H	LEC	MWF	11:00A-12:10P		J Baskin Engr 372	Staff	R
19559		FREN-6-01		Intermediate French	5	H	LEC	MWF	03:30P-04:40P		Merrill Acad 132	Gautier,C.	R
36500		FREN-136-01		La Francophonie	5		LEC	MF	03:30P-04:40P		Merrill Acad 130	Elsej,A.A.	R
								W	03:30P-05:30P		Merrill Acad 130		

German

19619		GERM-1-01		Instr German Lang	5		LEC	MWF	08:00A-09:10A		Soc Sci I 161	Campbell,W.I.	
19621		GERM-1-02		Instr German Lang	5		LEC	MWF	09:30A-10:40A		Soc Sci I 161	Campbell,W.I.	
19623		GERM-1-03		Instr German Lang	5		LEC	MWF	11:00A-12:10P		Soc Sci I 161	Campbell,W.I.	
19625		GERM-4-01		Intermediate German	5	H	LEC	MWF	12:30P-01:40P		Crown Clrm 208	Harris-Frisk,J.	R

Greek

19661		GREE-1-01		Elem Ancient Greek	5		LEC	TTh	08:00A-09:45A		Soc Sci I 145	Staff	
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Hebrew

19803		HEBR-1-01		Instr Hebrew Lang	5		LEC	MWF	09:30A-10:40A		Eight Acad 242	Rossman-Benjamin,T.H.	
19805		HEBR-4-01		Intermediate Hebrew	5	H	LEC	MWF	12:30P-01:40P		Soc Sci 2 137	Rossman-Benjamin,T.H.R	

Hindi

30641		HNDI-1-01		Elementary Hindi	5		SEM	MWF	12:30P-01:40P		Soc Sci I 161	Mock,J.	
30643		HNDI-4-01		Intermediate Hindi	5	H	LEC	MWF	11:00A-12:10P		Soc Sci 2 137	Mock,J.	R

History

36345		HIS-10A-01		U.S. History To 1877	5	H	LEC	MWF	11:00A-12:10P		Merrill Acad 102	Jones,C.A.	
				<i>Enroll in lecture and associated discussion section.</i>									
36346		HIS-10A-01A		Discussion			DIS		**To Be Arranged**			Staff	
36347		HIS-10A-01B		Discussion			DIS		**To Be Arranged**			Staff	
36348		HIS-10A-01C		Discussion			DIS		**To Be Arranged**			Staff	
36349		HIS-10A-01D		Discussion			DIS		**To Be Arranged**			Staff	
36351		HIS-40B-01		Modern East Asia	5	HE	LEC	MWF	09:30A-10:40A		Humn Lecture 206	Aso,N.	
				<i>Enroll in lecture and associated discussion section.</i>									
									<i>Hershatler,G.B.</i>				
36352		HIS-40B-01A		Discussion			DIS		**To Be Arranged**			Staff	
36353		HIS-40B-01B		Discussion			DIS		**To Be Arranged**			Staff	
36354		HIS-40B-01C		Discussion			DIS		**To Be Arranged**			Staff	
36355		HIS-40B-01D		Discussion			DIS		**To Be Arranged**			Staff	
36356		HIS-40B-01E		Discussion			DIS		**To Be Arranged**			Staff	
36357		HIS-40B-01F		Discussion			DIS		**To Be Arranged**			Staff	
36358		HIS-62B-01		Classic World: Rome	5	H	LEC	MWF	08:00A-09:10A		Steven Acad 150	Hedrick,C.W.	
				<i>Enroll in lecture and associated discussion section.</i>									
36359		HIS-62B-01A		Discussion			DIS		**To Be Arranged**			Staff	
36360		HIS-62B-01B		Discussion			DIS		**To Be Arranged**			Staff	
36361		HIS-62B-01C		Discussion			DIS		**To Be Arranged**			Staff	
36362		HIS-62B-01D		Discussion			DIS		**To Be Arranged**			Staff	
36557		HIS-70A-01		ModEurope 1500-1789	5	H	LEC	MWF	12:30P-01:40P		Thim Lecture 001	Staff	
36558		HIS-70A-01A		Discussion			DIS		**To Be Arranged**			Staff	
36559		HIS-70A-01B		Discussion			DIS		**To Be Arranged**			Staff	
36560		HIS-70A-01C		Discussion			DIS		**To Be Arranged**			Staff	
36561		HIS-70A-01D		Discussion			DIS		**To Be Arranged**			Staff	
32181		HIS-106B-01		AsianAsianAm 1941-Pres	5	E	LEC	MWF	08:00A-09:10A		Cowell Clrm 131	Yang-Murray,A.S.	
36368		HIS-110B-01		US Revolu:1740-1815	5		LEC	TTh	04:00P-05:45P		Cowell Clrm 131	O'Malley,G.	
				<i>Enroll in lecture and associated discussion section.</i>									
36484		HIS-110B-01A		Discussion			DIS		**To Be Arranged**			Staff	
36485		HIS-110B-01B		Discussion			DIS		**To Be Arranged**			Staff	
36369		HIS-110E-01		U.S. From 1877-1914	5		LEC	TTh	02:00P-03:45P		Kresge Clrm 327	Lasar,M.	
				<i>Enroll in lecture and associated discussion section.</i>									
36370		HIS-110E-01A		Discussion			DIS		**To Be Arranged**			Staff	
36371		HIS-110E-01B		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
36372		HIS-113C-01		Women/Am Regl Cult	5	LEC	TTh		10:00A-11:45A		Cowell Clrm 131	Westerkamp,M.J.	
				<i>Enroll in lecture and associated discussion section.</i>									
36373		HIS-113C-01A		Discussion		DIS			**To Be Arranged**			Staff	
36374		HIS-113C-01B		Discussion		DIS			**To Be Arranged**			Staff	
36375		HIS-115B-01		US Labor His1919-Pres	5	LEC	MWF		02:00P-03:10P		Porter Acad 144	Frank,D.L.	
36376		HIS-115B-01A		Discussion		DIS			**To Be Arranged**			Staff	
36377		HIS-115B-01B		Discussion		DIS			**To Be Arranged**			Staff	
36378		HIS-115B-01C		Discussion		DIS			**To Be Arranged**			Staff	
36571		HIS-115B-01D		Discussion		DIS			**To Be Arranged**			Staff	
36379		HIS-128-01		Chicana/o History	5	E LEC	TTh		12:00P-01:45P		Cowell Clrm 131	Castillo,P.G.	
				<i>Enroll in lecture and associated discussion section.</i>									
36380		HIS-128-01A		Discussion		DIS			**To Be Arranged**			Staff	
36381		HIS-128-01B		Discussion		DIS			**To Be Arranged**			Staff	
36383		HIS-137A-01		Africa To 1800	5	E LEC	TTh		08:00A-09:45A		Cowell Clrm 131	Anthony,D.H.	
				<i>Enroll in lecture and associated discussion section</i>									
36384		HIS-137A-01A		Discussion		DIS			**To Be Arranged**			Staff	
36385		HIS-137A-01B		Discussion		DIS			**To Be Arranged**			Staff	
36386		HIS-140C-01		Revolutionary China	5	E LEC	TTh		12:00P-01:45P		Porter Acad 148	Honig,E.	
				<i>Enroll in lecture and associated discussion section.</i>									
36387		HIS-140C-01A		Discussion		DIS			**To Be Arranged**			Staff	
36388		HIS-140C-01B		Discussion		DIS			**To Be Arranged**			Staff	
36572		HIS-140C-01C		Discussion		DIS			**To Be Arranged**			Staff	
36573		HIS-140C-01D		Discussion		DIS			**To Be Arranged**			Staff	
36389		HIS-163A-01		A History of Sin	5	LEC	MWF		11:00A-12:10P		Thim Lecture 001	Hamel,G.	
				<i>Enroll in lecture and associated discussion section.</i>									
36390		HIS-163A-01A		Discussion		DIS			**To Be Arranged**			Staff	
36391		HIS-163A-01B		Discussion		DIS			**To Be Arranged**			Staff	
36474		HIS-163A-01C		Discussion		DIS			**To Be Arranged**			Staff	
36475		HIS-163A-01D		Discussion		DIS			**To Be Arranged**			Staff	
32187		HIS-172A-01		German History	5	LEC	TTh		08:00A-09:45A		Steven Acad 175	Cioc,M.	
				<i>Enroll in lecture and associated discussion section</i>									
32189		HIS-172A-01A		Discussion		DIS			**To Be Arranged**			Staff	
32191		HIS-172A-01B		Discussion		DIS			**To Be Arranged**			Staff	
36574		HIS-172A-01C		Discussion		DIS			**To Be Arranged**			Staff	
36575		HIS-172A-01D		Discussion		DIS			**To Be Arranged**			Staff	
36454		HIS-190A-01		Latn Am Slavry/Race	5	WE SEM	T		04:00P-07:00P		Hum & Soc Sci 350	Diaz,M.E.	R
36556		HIS-190F-01		Resrch In Americas	5	W SEM	F		02:00P-05:00P		Soc Sci 2 171	Haas,L.	R
36397		HIS-190X-01		AtlanticWorld1492-1824	5	W SEM	MW		07:00P-08:45P		Merrill Acad 002	O'Malley,G.	R
32193		HIS-194N-01		ModernAsianHistory	5	WE SEM	MW		05:00P-06:45P		Merrill Acad 002	Basu,D.K.	R
36402		HIS-196B-01		Social Protests	5	W SEM	MW		03:30P-05:15P		Cowell Acad 216	Sharp,B.	R
32195		HIS-196E-01		Modern Irish Histry	5	W SEM	MW		05:00P-06:45P		Soc Sci 2 171	Thompson,B.A.	R
20035		HIS-200-01		Methods & Theories	5	SEM	T		04:00P-07:00P		Steven Acad 213	Cioc,M.	R
36403		HIS-205-01		Diaspora	5	SEM	Th		04:00P-07:00P		Humanities I 545	Haas,L.	
36409		HIS-210A-01		Readings US History	5	SEM	W		02:00P-05:00P		Steven Acad 213	Westerkamp,M.J.	R
36555		HIS-242-01		Readings Mod Japan	5	SEM	M		02:00P-05:00P		Humanities I 545	Aso,N.	R
20037		HIS-280A-01		Teaching Pedagogy	2	SEM	Th		06:00P-09:00P		Humanities I 545	O'Hara,M.D.	R

History of Art and Visual Culture

36190		HAVC-10D-01		Asian Vis Culture	5	HA LEC	MWF		09:30A-10:40A		J Bask Aud 101	Staff	
				<i>Enroll in lecture and associated discussion section.</i>									
36191		HAVC-10D-01A		Discussion		DIS	T		12:00P-01:10P		Porter Acad 248	Staff	
36192		HAVC-10D-01B		Discussion		DIS	T		01:30P-02:40P		Porter Acad 248	Staff	
36193		HAVC-10D-01C		Discussion		DIS	W		11:00A-12:10P		Porter Acad 248	Staff	
36194		HAVC-10D-01D		Discussion		DIS	W		12:30P-01:40P		Porter Acad 248	Staff	
36195		HAVC-10D-01E		Discussion		DIS	W		02:00P-03:10P		Porter Acad 248	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
36196		HAVC-10D-01F		Discussion		DIS	W		03:30P-04:40P		Porter Acad 248	Staff	
36197		HAVC-10D-01G		Discussion		DIS	Th		09:00A-10:10A		Porter Acad 248	Staff	
36198		HAVC-10D-01H		Discussion		DIS	Th		10:30A-11:40A		Porter Acad 248	Staff	
36200		HAVC-80H-01		Video Games	5	5A	LEC	TTh	02:00P-03:45P		J Bask Aud 101	Murray,S.E.	
<i>Enroll in lecture and associated discussion section.</i>													
36547		HAVC-80H-01A		Discussion		DIS	W		10:00A-11:10A		KresgeAnnex B 115	Staff	
36548		HAVC-80H-01B		Discussion		DIS	W		12:30P-01:40P		KresgeAnnex B 115	Staff	
36549		HAVC-80H-01C		Discussion		DIS	Th		10:30P-11:40P		KresgeAnnex B 115	Staff	
36550		HAVC-80H-01D		Discussion		DIS	Th		12:00P-01:10P		KresgeAnnex B 115	Staff	
36551		HAVC-80H-01E		Discussion		DIS	F		09:00A-10:10A		KresgeAnnex B 115	Staff	
36552		HAVC-80H-01F		Discussion		DIS	F		10:30A-11:40A		KresgeAnnex B 115	Staff	
36553		HAVC-80H-01G		Discussion		DIS	F		12:00P-01:10P		KresgeAnnex B 115	Staff	
36554		HAVC-80H-01H		Discussion		DIS	F		01:30P-02:40P		KresgeAnnex B 115	Staff	
36204		HAVC-80M-01		Indigenous America	5	5AE	LEC	MWF	12:30P-01:40P		Eight Acad 240	Dean,C.	
<i>Enroll in lecture and associated discussion section.</i>													
36205		HAVC-80M-01A		Discussion		DIS	Th		12:00P-01:10P		Porter Acad 248	Staff	
36206		HAVC-80M-01B		Discussion		DIS	Th		01:30P-02:40P		Porter Acad 248	Staff	
36207		HAVC-80M-01C		Discussion		DIS	F		09:30A-10:40A		Porter Acad 248	Staff	
36208		HAVC-80M-01D		Discussion		DIS	F		11:00A-12:10P		Porter Acad 248	Staff	
36481		HAVC-100A-01		Methods in HAVC	5	WA	SEM	TTh	02:00P-03:45P		Cowell Clrm 131	Soussloff,C.M.	R
36209		HAVC-105P-01		Pacific Islands Art	5	AE	LEC	TTh	10:00A-11:45A		Eight Acad 240	Kamehiro,S.L.	
36210		HAVC-106A-01		India Religious Art	5	AE	LEC	TTh	12:00P-01:45P		Eight Acad 240	Ly,B.J.	R
36545		HAVC-115-01		Italian Renaissance	5	A	LEC	TTh	04:00P-05:45P		Porter Acad 148	Staff	
36214		HAVC-185C-01		AfricanArchitecture	5	AE	LEC	TTh	12:00P-01:45P		Cowell Com 134	Staff	
36480		HAVC-189V-01		VenetianRenaissance	5	A	LEC	TTh	10:00A-11:45A		Cowell Com 134	Staff	
36546		HAVC-191P-01		Pac Is Art/Identity	5	AE	SEM	TTh	04:00P-05:45P		Porter Acad 248	Kamehiro,S.L.	R
History of Consciousness													
36501		HISC-237A-01		Hist Materialism	5		SEM	W	03:30P-06:30P		Humanities I 420	Bal Krishnan,G.	R
Information Systems Management													
20599		ISM-50-01		Business Inf System	5		LEC	TTh	10:00A-11:45A		J Baskin Engr 152	Musacchio,J.T.	
29401		ISM-101-01		Mgmt Of Tech Seminr	2		SEM	Th	04:00P-05:45P		PhysSciences 114	Desa,S.	
31541		ISM-105-01		Mgmt of Tech I	5		LEC	TTh	12:00P-01:45P		Engineer 2 194	Desa,S.	R
<i>Taught in conjunction with ISM 205</i>													
31543		ISM-205-01		Management Tech I	5		LEC	TTh	12:00P-01:45P		Engineer 2 194	Desa,S.	R
<i>Taught in conjunction with ISM 105</i>													
31737		ISM-209-01		Knowl Svcs/Data Analt	5		LEC	W	06:00P-09:30P		J Baskin Engr 156	Akella,R.	R
<i>Enroll in lecture and associated discussion section</i>													
36447		ISM-209-01A		Discussion		DIS	M		05:00P-06:45P		TBA	Staff	
32197		ISM-209-50		Knowl Svcs/Data Analt	5		LEC	W	06:00P-09:30P		SiliconValleyCtr	Akella,R.	R
<i>Enroll in lecture and associated discussion section</i>													
36448		ISM-209-50A		Discussion		DIS	M		05:00P-06:45P		SiliconValleyCtr	Staff	
36449		ISM-260-01		Information Retrieval	5		LEC	M	06:00P-09:30P		J Baskin Engr 156	Zhang,Y.	R
36450		ISM-260-50		Information Retrieval	5		LEC	M	06:00P-09:30P		SiliconValleyCtr	Zhang,Y.	R
Italian													
20601		ITAL-1-01		Instr Italian Lang	5		LEC	MWF	11:00A-12:10P		Soc Sci 2 167	Prencipe,M.A.	
20603		ITAL-1-02		Instr Italian Lang	5		LEC	MWF	12:30P-01:40P		Soc Sci 2 159	Centineo,G.	
20605		ITAL-1-03		Instr Italian Lang	5		LEC	MWF	02:00P-03:10P		Soc Sci 2 159	Centineo,G.	
20607		ITAL-1-04		Instr Italian Lang	5		LEC	MWF	03:30P-04:40P		Soc Sci 2 159	Centineo,G.	
20609		ITAL-4-01		Intermed Italian	5	H	LEC	MWF	12:30P-01:40P		Soc Sci 2 167	Prencipe,M.A.	R
20611		ITAL-4-02		Intermed Italian	5	H	LEC	MWF	02:00P-03:10P		Soc Sci 2 167	Prencipe,M.A.	R

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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Japanese

20659		JAPN-1-01		Japanese Language	5		LEC	MWF	08:00A-09:10A		Soc Sci 1 145	Fujita,S.	
20661		JAPN-1-02		Japanese Language	5		LEC	MWF	02:00P-03:10P		Soc Sci 1 145	Staff	
20663		JAPN-1-03		Japanese Language	5		LEC	MWF	03:30P-04:40P		Soc Sci 1 145	Staff	
20665		JAPN-4-01		Intermed Japanese	5	H	LEC	MWF	11:00A-12:10P		Soc Sci 1 145	Fujita,S.	R
32495		JAPN-4-02		Intermed Japanese	5	H	LEC	MWF	12:30P-01:40P		Soc Sci 1 145	Fujita,S.	R
35925		JAPN-103-01		Advanced Japanese	5		LEC	MWF	03:30P-04:40P		Steven Acad 151	Okamoto,S.	R

Latin

21105		LATN-1-01		Elementary Latin	5		LEC	MWF	03:30P-04:40P		Soc Sci 2 167	Hamel,G.	
21107		LATN-1-02		Elementary Latin	5		LEC	MWF	11:00A-12:10P		Soc Sci 2 165	Staff	

Latin American and Latino Studies

20847		LALS-1-01		Intro Latin Amer St	5	SE	LEC	MW	05:00P-06:45P		Thim Lecture 003	Delgado-P,G.	
20849		LALS-1-01A		Discussion			DIS		**To Be Arranged**			Staff	
20851		LALS-1-01B		Discussion			DIS		**To Be Arranged**			Staff	
20853		LALS-1-01C		Discussion			DIS		**To Be Arranged**			Staff	
20855		LALS-1-01D		Discussion			DIS		**To Be Arranged**			Staff	
20857		LALS-1-01E		Discussion			DIS		**To Be Arranged**			Staff	
30519		LALS-1-01F		Discussion			DIS		**To Be Arranged**			Staff	
31371		LALS-1-01G		Discussion			DIS		**To Be Arranged**			Staff	
31373		LALS-1-01H		Discussion			DIS		**To Be Arranged**			Staff	
32545		LALS-1-01I		Discussion			DIS		**To Be Arranged**			Staff	
32547		LALS-1-01J		Discussion			DIS		**To Be Arranged**			Staff	
32879		LALS-1-01K		Discussion			DIS		**To Be Arranged**			Staff	
32881		LALS-1-01L		Discussion			DIS		**To Be Arranged**			Staff	
32235		LALS-10-01		Bridging LALS	5	E	LEC	MWF	12:30P-01:40P		Steven Acad 175	Arredondo,G.F.	
32237		LALS-10-01A		Discussion			DIS		**To Be Arranged**			Staff	
32239		LALS-10-01B		Discussion			DIS		**To Be Arranged**			Staff	
32241		LALS-10-01C		Discussion			DIS		**To Be Arranged**			Staff	
32243		LALS-10-01D		Discussion			DIS		**To Be Arranged**			Staff	
36482		LALS-80P-01		EnergySocietyEcology	5	3E	LEC	TTh	02:00P-03:45P		Soc Sci 1 110	Lu,F.E.	
20859		LALS-80Q-01		Musica Latina	5	3E	LEC	W	05:00P-09:00P		Steven Acad 175	Landau,G.	
32883		LALS-80X-01		Central Am Peoples	5	5E	LEC	MWF	02:00P-03:10P		Cowell Clrm 131	Rivas,C.M.	
31449		LALS-81A-01		Mexican Folk Dance	2	A	STU	M	06:30P-08:00P		E Fieldhouse	Najera Ramirez,O.	
				<i>Also offered as ANTH 81A</i>				F	05:00P-08:00P		E Fieldhouse		
								Su	04:00P-07:00P		E Fieldhouse		
36125		LALS-122-01		Media/Nationalism	5	E	LEC	MW	05:00P-06:45P		Soc Sci 1 161	Rivas,C.M.	R
32885		LALS-143J-01		Global Politic Econ	5		LEC	TTh	10:00A-11:45A		N. Sci Annex 102	Borrego,J.G.	
35935		LALS-146-01		Urban Crisis Amer	5	E	LEC	TTh	04:00P-05:45P		N. Sci Annex 103	Delgado-P,G.	
29223		LALS-173-01		Lat Am Immigr To Us	5	E	LEC	TTh	12:00P-01:45P		Crown Clrm 208	Jonas,S.L.	
33665		LALS-175-01		Migratn, Gndr, Hlth	5	E	LEC	TTh	02:00P-03:45P		J Baskin Engr 372	Zavella,P.J.	R
36483		LALS-194I-01		Cntmprary Ecuador	5		SEM	TTh	06:00P-07:45P		Crown Clrm 201	Lu,F.E.	R
20915		LALS-194N-01		Las Izquierdas L Am	5	E	SEM	W	05:00P-08:30P		Merrill Acad 132	Jonas,S.L.	R
35937		LALS-240-01		Culture Human Rights	5		SEM	W	05:00P-08:00P		Merrill Acad 039	Fregoso,R.	R

Also offered as FMST 240

Legal Studies

21113		LGST-10-01		Intro Legal Process	5	S	LEC	MWF	09:30A-10:40A		Oakes Acad 105	Coonerty,R.E.	
				<i>Enroll in lecture and associated discussion section.</i>									
21115		LGST-10-01A		Discussion			DIS	T	08:30A-09:40A		Steven Acad 152	Staff	
21117		LGST-10-01B		Discussion			DIS	T	04:00P-05:10P		Porter Acad 144	Staff	
21119		LGST-10-01C		Discussion			DIS	W	03:30P-04:40P		Soc Sci 2 179	Staff	
21121		LGST-10-01D		Discussion			DIS	W	05:00P-06:10P		Steven Acad 152	Staff	
21123		LGST-10-01E		Discussion			DIS	W	06:30P-07:40P		Steven Acad 152	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
21125		LGST-10-01F		Discussion		DIS	F		12:30P-01:40P		Cowell Clrm 131	Staff	
33353		LGST-105A-01		Ancient Pol Thought	5	LEC	MWF		12:30P-01:40P		Merrill Acad 102	Mathiowetz,D.P.	R
				<i>Enroll in lecture and associated discussion section; also offered as POLI 105A</i>									
33355		LGST-105A-01A		Discussion		DIS	M		09:30A-10:40A		Cowell Clrm 131	Staff	
33357		LGST-105A-01B		Discussion		DIS	W		05:00P-06:10P		Kresge Acad 194	Staff	
33359		LGST-105A-01C		Discussion		DIS	Th		08:30A-09:40A		Steven Acad 152	Staff	
33361		LGST-105A-01D		Discussion		DIS	F		03:30P-04:40P		Crown Clrm 208	Staff	
33377		LGST-120B-01		Democ Amer Pol Dev	5	LEC	TTh		12:00P-01:45P		Steven Acad 175	Brown,M.K.	R
				<i>Enroll in lecture and associated discussion section; also offered as POLI 120B</i>									
33379		LGST-120B-01A		Discussion		DIS	M		09:30A-10:40A		Porter Acad 144	Staff	
33381		LGST-120B-01B		Discussion		DIS	M		11:00A-12:10P		Porter Acad 144	Staff	
33383		LGST-120B-01C		Discussion		DIS	T		08:30A-09:40A		Crown Clrm 208	Staff	
33385		LGST-120B-01D		Discussion		DIS	W		02:00P-03:10P		Crown Clrm 208	Staff	
33391		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>									
33393		LGST-128I-01A		Discussion		DIS	M		09:30A-10:40A		Kresge Clrm 325	Staff	
33395		LGST-128I-01B		Discussion		DIS	Th		06:00P-07:10P		Merrill Acad 130	Staff	
33397		LGST-128I-01C		Discussion		DIS	Th		07:30P-08:40P		Merrill Acad 130	Staff	
33399		LGST-128I-01D		Discussion		DIS	F		08:00A-09:10A		Oakes Acad 106	Staff	
36499		LGST-132-01		Ca Water Law/Policy	5	LEC	TTh		10:00A-11:45A		Porter Acad 144	Langridge,R.	
				<i>Also offered as POLI 132</i>									
36529		LGST-138-01		Political Anthro	5	LEC	MWF		02:00P-03:10P		Engineer 2 192	Staff	
				<i>Also offered as ANTH 138</i>									
36496		LGST-157-01		Political Jurisprudence	5	LEC	TTh		12:00P-01:45P		Soc Sci 1 110	Lozano,B.J.	R
36154		LGST-173-01		International Law	5	LEC	TTh		08:00A-09:45A		Thim Lecture 001	Staff	R
				<i>Enroll in lecture and associated discussion section; also offered as POLI 173</i>									
36155		LGST-173-01A		Discussion		DIS	M		11:00A-12:10P		Crown Clrm 208	Staff	
36156		LGST-173-01B		Discussion		DIS	W		09:30A-10:40A		Crown Clrm 208	Staff	
36157		LGST-173-01C		Discussion		DIS	W		07:00P-08:10P		Porter Acad 148	Staff	
36158		LGST-173-01D		Discussion		DIS	F		08:00A-09:10A		Crown Clrm 208	Staff	
Linguistics													
21171		LING-52-01		Syntax I	5	H	LEC	MWF	12:30P-01:40P		Engineer 2 192	Hankamer,J.	R
21173		LING-52-01A		Discussion			DIS	M	05:30P-06:40P		Cowell Acad 216	Staff	
35943		LING-52-01B		Discussion			DIS	T	08:30A-09:40A		Cowell Acad 216	Staff	
31967		LING-53-01		Semantics I	5	H	LEC	MWF	09:30A-10:40A		Steven Acad 175	Farkas,D.F.	
31969		LING-53-01A		Discussion			DIS	M	12:30P-01:40P		Soc Sci 2 363	Staff	
31971		LING-53-01B		Discussion			DIS	M	05:30P-06:40P		Soc Sci 2 363	Staff	
31973		LING-53-01C		Discussion			DIS	T	06:00P-07:10P		Soc Sci 2 363	Staff	
35944		LING-53-01D		Discussion			DIS	T	07:30P-08:40P		Soc Sci 2 363	Staff	
35945		LING-80C-01		Lang, Socty & Cultr	5	5	LEC	MWF	03:30P-04:40P		Humn Lecture 206	McCloskey,J.	
21177		LING-101-01		Phonology I	5	W	LEC	MWF	11:00A-12:10P		Steven Acad 175	Staff	R
29225		LING-101-01A		Discussion			DIS	W	02:00P-03:10P		Soc Sci 2 171	Staff	
21179		LING-101-01B		Discussion			DIS	W	03:30P-04:40P		Soc Sci 2 171	Staff	
21181		LING-101-01C		Discussion			DIS	Th	06:00P-07:10P		Soc Sci 2 171	Staff	
32689		LING-101-01D		Discussion			DIS	Th	07:30P-08:40P		Soc Sci 2 171	Staff	
35946		LING-120-01		Structure English	5		LEC	TTh	08:00A-09:45A		Cowell Com 134	Staff	R
36563		LING-154-01		Lang & Social Identity	5		LEC	TTh	04:00P-05:45P		Cowell Com 134	McGuire,G.L.	R
36477		LING-157-01		Psycholing/LingTheory	5		SEM	TTh	10:00A-11:45A		Cowell Acad 113	Wagers,M.W.	R
				<i>Taught in conjunction with LING 257</i>									
31423		LING-211-01		Phonology A	5		LEC		**To Be Arranged**			Mester,R.A.	R
21297		LING-221-01		Syntax A	5		LEC		**To Be Arranged**			Chung,S.	R
21299		LING-231-01		Semantics A	5		LEC		**To Be Arranged**			Anand,P.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
32899		LING-239-01		Semantics Seminar	5		LEC		**To Be Arranged**			Anand,P. Farkas,D.F.	R
36478		LING-249-01		Morphology Seminar	5		SEM		**To Be Arranged**			Hankamer,J.	R
36248		LING-257-01		Psycholing/LingTheory	5		SEM	TTh	10:00A-11:45A		Cowell Acad 113	Wagers,M.W.	R

Taught in conjunction with LING 157

Literature

35948		LIT-61D-01		Intro Reading Drama	5	H	LEC	MWF	12:30P-01:40P		Humn Lecture 206	Gamel,M.	
				<i>Enroll in lecture and associated discussion section.</i>				Th	07:00P-09:00P		Humn Lecture 206		
35949		LIT-61D-01A		Discussion			DIS	M	05:00P-06:10P		Cowell Acad 113	Staff	
35950		LIT-61D-01B		Discussion			DIS	M	06:30P-07:40P		Cowell Acad 113	Staff	
35951		LIT-61D-01C		Discussion			DIS	T	06:00P-07:10P		Cowell Acad 113	Staff	
35952		LIT-61D-01D		Discussion			DIS	T	07:30P-08:40P		Cowell Acad 113	Staff	
35953		LIT-61D-01E		Discussion			DIS	W	08:00A-09:10A		Kresge Clrm 323	Staff	
35954		LIT-61D-01F		Discussion			DIS	Th	08:30A-09:40A		Kresge Clrm 323	Staff	
35955		LIT-80I-01		Amer Popular Cultur	5	4	LEC	MWF	02:00P-03:10P		Humn Lecture 206	Chude-Sokei,L.O.	
				<i>Enroll in lecture and associated discussion section.</i>									
35956		LIT-80I-01A		Discussion			DIS	W	08:00A-09:10A		Cowell Acad 113	Staff	
35957		LIT-80I-01B		Discussion			DIS	W	05:00P-06:10P		Cowell Acad 113	Staff	
35958		LIT-80I-01C		Discussion			DIS	W	06:30P-07:40P		Cowell Acad 113	Staff	
35959		LIT-80I-01D		Discussion			DIS	Th	06:00P-07:10P		Cowell Acad 113	Staff	
35960		LIT-80I-01E		Discussion			DIS	Th	07:30P-08:40P		Cowell Acad 113	Staff	
35961		LIT-80I-01F		Discussion			DIS	F	08:00A-09:10A		Cowell Acad 113	Staff	
21463		LIT-101-01		Theory & Interpretn	5	W	LEC	TTh	08:00A-09:45A		ClassroomUnit 001	Bivens,A.H.	R
				<i>Enroll in lecture and associated discussion section</i>									
21465		LIT-101-01A		Discussion			DIS	T	06:00P-07:10P		Steven Acad 151	Staff	
21467		LIT-101-01B		Discussion			DIS	T	07:30P-08:40P		Steven Acad 151	Staff	
21469		LIT-101-01C		Discussion			DIS	W	05:00P-06:10P		Steven Acad 151	Staff	
29227		LIT-101-01D		Discussion			DIS	W	06:30P-07:40P		Steven Acad 151	Staff	
29229		LIT-101-01E		Discussion			DIS	F	08:00A-09:10A		Steven Acad 151	Staff	
21471		LIT-200-01		Proseminar	5		SEM	Th	02:00P-05:45P		Humanities I 620	Godzich,W.B.	R
31781		LIT-201-01		Pedagogy of Literat	1		SEM		**To Be Arranged**			Kinoshita,S.A.	R

Creative Writing

21669		LTCR-10-01		Intro Creative Writ	5	A	SEM	MW	05:00P-06:45P		Crown Clrm 203	Staff	R
								W	07:00P-09:00P		Humn Lecture 206	Staff	
31425		LTCR-10-02		Intro Creative Writ	5	A	SEM	MW	05:00P-06:45P		Crown Clrm 202	Staff	R
								W	07:00P-09:00P		Humn Lecture 206	Staff	
31427		LTCR-10-03		Intro Creative Writ	5	A	SEM	TTh	04:00P-05:45P		Oakes Acad 103	Staff	R
								W	07:00P-09:00P		Humn Lecture 206	Staff	
31429		LTCR-10-04		Intro Creative Writ	5	A	SEM	TTh	06:00P-07:45P		Soc Sci 2 141	Staff	R
								W	07:00P-09:00P		Humn Lecture 206	Staff	
21671	Y	LTCR-52-01		Inter Fiction Writing	5	A	SEM	MW	05:00P-06:45P		Soc Sci 2 141	Staff	
				<i>See Enrollment Conditions for instructions</i>				W	07:00P-09:00P		Humn Lecture 206	Staff	
21673	Y	LTCR-53-01		Inter Poetry Writing	5	A	SEM	TTh	02:00P-03:45P		Cowell Acad 223	Staff	
				<i>See Enrollment Conditions for instructions</i>				W	07:00P-09:00P		Humn Lecture 206	Staff	
21675		LTCR-180-01		Adv Writing-Fiction	5	A	SEM	MW	05:00P-06:45P		Cowell Acad 223	Yamashita,K.T.	R
								W	07:00P-09:00P		Humn Lecture 206		
29231		LTCR-183-01		Adv Writing-Poetry	5	A	SEM	TTh	08:00A-09:45A		Soc Sci 2 141	Staff	R
								W	07:00P-09:00P		Humn Lecture 206	Staff	

English-Language Literature

36398		LTEL-110I-01		Am Prose: Non-Fictn	5		LEC	MW	05:00P-06:45P		Steven Acad 150	Chude-Sokei,L.O.	
				<i>Enroll in lecture and associated discussion section.</i>									
36399		LTEL-110I-01A		Discussion			DIS	T	08:30A-09:40A		Kresge Clrm 323	Staff	
36400		LTEL-110I-01B		Discussion			DIS	Th	06:00P-07:10P		Kresge Clrm 323	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
36401		LTEL-1101-01C		Discussion			DIS	Th	07:30P-08:40P		Kresge Clrm 323	Staff	
36538		LTEL-130B-01		Eng Drama 1576-1642	5		LEC	MWF	03:30P-04:40P		Oakes Acad 102	Staff	
35962		LTEL-140C-01		John Carpenter Film	5		LEC	TTh	02:00P-03:45P		Steven Acad 150	Leicester,H.M.	
				<i>Enroll in lecture and associated discussion section.</i>									
35963		LTEL-140C-01A		Discussion			DIS	T	06:00P-07:10P		Kresge Clrm 323	Staff	
35964		LTEL-140C-01B		Discussion			DIS	T	07:30P-08:40P		Kresge Clrm 323	Staff	
35965		LTEL-140C-01C		Discussion			DIS	F	08:00A-09:10A		Kresge Clrm 323	Staff	
35966		LTEL-150C-01		Asian Amer Literatr	5	E	LEC	MWF	12:30P-01:40P		Soc Sci 2 071	Yamashita,K.T.	
				<i>Enroll in lecture and associated discussion section.</i>									
35967		LTEL-150C-01A		Discussion			DIS	T	12:00P-01:10P		Kresge Clrm 323	Staff	
35968		LTEL-150C-01B		Discussion			DIS	W	08:00A-09:10A		Crown Clrm 208	Staff	
36539		LTEL-190F-01		Studies in U.S. Lit	5		SEM	TTh	02:00P-03:45P		Oakes Acad 222	Staff	R
French Literature													
35970		LTFR-135-01		Author And Culture	5		SEM	MWF	12:30P-01:40P		Cowell Acad 216	Gaitet,P.	
German Literature													
35971		LTGE-159-01		German Comedy	5		SEM	MWF	02:00P-03:10P		Crown Clrm 201	Nygaard,L.C.	
Greek Literature													
35972		LTGR-103-01		Greek Drama	5		LEC	TTh	02:00P-03:45P		Cowell Acad 222	Gamel,M.	
Italian Literature													
35973		LTIT-180-01		Women In Italy	5		SEM	TTh	10:00A-11:45A		Cowell Acad 222	Shemek,D.	
Latin Literature													
36540		LTIN-103-01		Prose Authors	5		SEM	MWF	11:00A-12:10P		Merrill Acad 003	Hedrick,C.W.	
Modern Literary Studies													
35974		LTMO-144A-01		Jewish Ethnic/Urban	5	E	LEC	MWF	11:00A-12:10P		J Baskin Engr 165	Thompson,B.A.	
36404		LTMO-145H-01		Detective Fiction	5		LEC	TTh	12:00P-01:45P		Oakes Acad 105	Jordan,J.O.	
				<i>Enroll in lecture and associated discussion section.</i>									
36405		LTMO-145H-01A		Discussion			DIS	T	06:00P-07:10P		Oakes Acad 102	Staff	
36406		LTMO-145H-01B		Discussion			DIS	T	07:30P-08:40P		Oakes Acad 102	Staff	
36407		LTMO-145H-01C		Discussion			DIS	W	08:00A-09:10A		Oakes Acad 102	Staff	
36408		LTMO-145H-01D		Discussion			DIS	Th	08:30A-09:40A		Cowell Acad 113	Staff	
35975		LTMO-168D-01		German War & Peace	5		LEC	TTh	04:00P-05:45P		Steven Acad 175	Nygaard,L.C.	
				<i>Enroll in lecture and associated discussion section</i>									
35976		LTMO-168D-01A		Discussion			DIS	W	03:30P-04:40P		Eight Acad 250	Staff	
35977		LTMO-168D-01B		Discussion			DIS	Th	08:30A-09:40A		Porter Acad 144	Staff	
Pre- and Early Modern Literature													
36541		LTPR-111-01		Monsters/Barbar/Women	5		SEM	MWF	09:30A-10:40A		J Baskin Engr 165	Lynn,J.K.	
36411		LTPR-148-01		Medieval Poetry	5		LEC	TTh	08:00A-09:45A		Steven Acad 150	Godzich,W.B.	
				<i>Enroll in lecture and associated discussion section.</i>									
36412		LTPR-148-01A		Discussion			DIS	T	06:00P-07:10P		Porter Acad 144	Staff	
36413		LTPR-148-01B		Discussion			DIS	T	07:30_08:40P		Porter Acad 144	Staff	
36414		LTPR-148-01C		Discussion			DIS	W	8:00A-09:10A		Cowell Com 134	Staff	
36562		LTPR-148-01D		Discussion			DIS	F	11:00A-12:10P		Porter Acad 144	Staff	
36542		LTPR-190P-01		Pre/Early Studies	5		SEM	TTh	10:00A-11:45A		Cowell Acad 223	Leicester,H.M.	R
Spanish Literature													
32981		LTSP-60-01		Intr Literary Genre	5	HE	LEC	MWF	02:00P-03:10P		Oakes Acad 222	Aladro Font,J.	
36543		LTSP-131D-01		Chile	5	E	LEC	TTh	04:00P-05:45P		J Baskin Engr 372	Staff	
35982		LTSP-134M-01		Novela Latinoamer	5	E	LEC	TTh	12:00P-01:45P		J Baskin Engr 165	Klahn,N.	
35983		LTSP-230-01		Citiscapes	5		LEC	M	03:00P-06:00P		Humanities I 620	Klahn,N.	R

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World Literature and Cultural Studies

36544		LTWL-109-01		Topic Cultral Study	5	E	LEC	MWF	03:30P-04:40P		N. Sci Annex 102	El Dessouky,D.	
36416		LTWL-150A-01		Worldings	5		LEC	MWF	02:00P-03:10P		Steven Acad 175	Cooppan,V.	
<i>Enroll in lecture and associated discussion section.</i>													
36417		LTWL-150A-01A		Discussion			DIS	Th	12:00P-01:10P		Kresge Clrm 323	Staff	
36418		LTWL-150A-01B		Discussion			DIS	F	08:00A-09:10A		Cowell Com 134	Staff	
35984		LTWL-190A-01		Topics in World Lit	5	E	SEM	TTh	12:00P-01:45P		Oakes Acad 222	Kinoshita,S.A.	R
35986		LTWL-201-01		Theory and Methods	5		SEM	M	09:00A-12:00P		Humanities I 620	Cooppan,V.	R
32987		LTWL-209-01		Topics Cultrl Studi	5		SEM	T	06:00P-09:00P		Humanities I 620	Wilson,R.J.	R

Mathematics

Secondaries start Monday, September 28.

22477		MATH-2-01		Col Algra/Calculus	5		LEC	MWF	03:30P-04:40P		Earth&Marine B206	Migliore,E.T.	R
<i>Students will enroll in secondary sections during the first week of class.</i>													
29233		MATH-2-01A		Discussion			DIS	M	08:00A-09:45A		Crown Clrm 104	Staff	
29235		MATH-2-01B		Discussion			DIS	M	10:00A-11:45A		J Baskin Engr 169	Staff	
29237		MATH-2-01C		Discussion			DIS	M	12:00P-01:45P		J Baskin Engr 169	Staff	
29239		MATH-2-01D		Discussion			DIS	M	05:00P-06:45P		J Baskin Engr 169	Staff	
29241		MATH-2-01E		Discussion			DIS	T	10:00A-11:45A		Crown Clrm 105	Staff	
29243		MATH-2-01F		Discussion			DIS	T	02:00P-03:45P		Crown Clrm 105	Staff	
29245		MATH-2-01G		Discussion			DIS	W	10:00A-11:45A		J Baskin Engr 169	Staff	
30521		MATH-2-01H		Discussion			DIS	W	12:00P-01:45P		J Baskin Engr 169	Staff	
30523		MATH-2-01I		Discussion			DIS	Th	10:00A-11:45A		Crown Clrm 105	Staff	
30525		MATH-2-01J		Discussion			DIS	Th	02:00P-03:45P		Crown Clrm 105	Staff	
30593		MATH-2-01K		Discussion			DIS	F	08:00A-09:45A		Crown Clrm 105	Staff	
30595		MATH-2-01L		Discussion			DIS	F	10:00A-11:45A		Crown Clrm 105	Staff	
32655		MATH-2-01M		Discussion			DIS	MW	08:00A-09:45A		Crown Clrm 105	Staff	
32657		MATH-2-01N		Discussion			DIS	MW	12:00P-01:45P		Crown Clrm 105	Staff	
32659		MATH-2-01O		Discussion			DIS	TTh	08:00A-09:45A		Crown Clrm 105	Staff	
32697		MATH-2-01P		Discussion			DIS	TTh	06:00P-07:45P		J Baskin Engr 169	Staff	
32699		MATH-2-01Q		Discussion			DIS	TTh	08:00P-09:45P		J Baskin Engr 169	Staff	
36567		MATH-2-01R		Discussion			DIS	TTh	12:00P-01:45P		Merrill Acad 003	Staff	
22479		MATH-3-01		Precalculus	5	Q	LEC	MWF	03:30P-04:40P		ClassroomUnit 002	Bauerle,F.	R
<i>Students will enroll in secondary sections during the first week of class.</i>													
22481		MATH-3-01A		Discussion			DIS	M	05:00P-06:45P		Soc Sci I 153	Staff	
22483		MATH-3-01B		Discussion			DIS	M	07:00P-08:45P		Soc Sci I 153	Staff	
22485		MATH-3-01C		Discussion			DIS	T	08:00A-09:45A		Thimann Lab 101	Staff	
22487		MATH-3-01D		Discussion			DIS	T	08:00A-09:45A		Soc Sci I 153	Staff	
22489		MATH-3-01E		Discussion			DIS	T	12:00P-01:45P		Thimann Lab 101	Staff	
22491		MATH-3-01F		Discussion			DIS	T	06:00P-07:45P		Thimann Lab 101	Staff	
29247		MATH-3-01G		Discussion			DIS	T	08:00P-09:45P		Thimann Lab 101	Staff	
22493		MATH-3-01H		Discussion			DIS	T	02:00P-03:45P		Thimann Lab 101	Staff	
22495		MATH-3-01I		Discussion			DIS	W	05:00P-06:45P		Thimann Lab 101	Staff	
22497		MATH-3-01J		Discussion			DIS	W	07:00P-08:45P		Thimann Lab 101	Staff	
31801		MATH-3-01K		Discussion			DIS	Th	06:00P-07:45P		Soc Sci I 153	Staff	
31803		MATH-3-01L		Discussion			DIS	Th	08:00P-09:45P		Soc Sci I 153	Staff	
32537		MATH-3-01M		Discussion			DIS	MW	10:00A-11:45A		Crown Clrm 105	Staff	
32539		MATH-3-01N		Discussion			DIS	TTh	04:00P-05:45P		Crown Clrm 105	Staff	
32675		MATH-3-01O		Discussion			DIS	TTh	12:00P-01:45P		Crown Clrm 105	Staff	
32677		MATH-3-01P		Discussion			DIS	MW	05:00P-06:45P		Porter Acad 241	Staff	
22499		MATH-3-02		Precalculus	5	Q	LEC	MWF	08:00A-09:10A		Humn Lecture 206	Bhattacharya,N.	R
<i>Students will enroll in secondary sections during the first week of class.</i>													
30597		MATH-3-02A		Discussion			DIS	M	07:00P-08:45P		Crown Clrm 202	Staff	
22501		MATH-3-02B		Discussion			DIS	T	08:00A-09:45A		Crown Clrm 202	Staff	
22503		MATH-3-02C		Discussion			DIS	T	06:00P-07:45P		Crown Clrm 203	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
22505		MATH-3-02D		Discussion		DIS	T		08:00P-09:45P		Crown Clrm 203	Staff	
22507		MATH-3-02E		Discussion		DIS	Th		08:00P-09:45P		Thimann Lab 101	Staff	
30999		MATH-3-02F		Discussion		DIS	Th		12:00P-01:45P		Thimann Lab 101	Staff	
31001		MATH-3-02G		Discussion		DIS	Th		06:00P-07:45P		Crown Clrm 203	Staff	
31003		MATH-3-02H		Discussion		DIS	Th		08:00P-09:45P		Crown Clrm 203	Staff	
31871		MATH-3-02I		Discussion		DIS	MW		05:00P-06:45P		Cowell Acad 222	Staff	
31873		MATH-3-02J		Discussion		DIS	TTh		8:00A-9:45A		Cowell Acad 222	Staff	
36144		MATH-3-02K		Discussion		DIS	TTh		12:00P-01:45P		Cowell Acad 222	Staff	
32143		MATH-3-02L		Discussion		DIS	TTh		08:00A-09:45A		Crown Clrm 104	Staff	
22509		MATH-11A-01		Calculus with Apps	5	NQ	LEC	MWF	03:30P-04:40P		J Bask Aud 101	Staff	R
				<i>Enroll in lecture and associated secondary lab.</i>									
22511		MATH-11A-01A		Secondary Lab		LBS	MW		10:00A-11:45A		J Baskin Engr 301B	Staff	
22513		MATH-11A-01B		Secondary Lab		LBS	MW		12:00P-01:45P		J Baskin Engr 301B	Staff	
22515		MATH-11A-01C		Secondary Lab		LBS	TTh		08:00A-09:45A		Oakes Acad 106	Staff	
22517		MATH-11A-01D		Secondary Lab		LBS	TTh		06:00P-07:45P		Eight Acad 252	Staff	
29249		MATH-11A-01E		Secondary Lab		LBS	TTh		08:00P-09:45P		Eight Acad 252	Staff	
32541		MATH-11A-01F		Secondary Lab		LBS	MW		07:00P-08:45P		Oakes Acad 106	Staff	
22519		MATH-11A-02		Calculus with Apps	5	NQ	LEC	MWF	02:00P-03:10P		Earth&Marine B206	Migliore,E.T.	R
				<i>Enroll in lecture and associated secondary lab.</i>									
22521		MATH-11A-02A		Secondary Lab		LBS	MW		08:00A-09:45A		J Baskin Engr 301A	Staff	
22523		MATH-11A-02B		Secondary Lab		LBS	TTh		10:00A-11:45A		J Baskin Engr 301B	Staff	
22525		MATH-11A-02C		Secondary Lab		LBS	TTh		06:00P-07:45P		J Baskin Engr 301A	Staff	
35437		MATH-11A-02D		Secondary Lab		LBS	MW		07:00P-08:45P		J Baskin Engr 301B	Staff	
36145		MATH-11A-02E		Secondary Lab		LBS	MW		05:00P-06:45P		Oakes Acad 106	Staff	
36146		MATH-11A-02F		Secondary Lab		LBS	TTh		08:00P-09:45P		PhysSciences 140	Staff	
22527		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>									
22529		MATH-11B-01A		Secondary Lab		LBS	TTh		12:00P-01:45P		J Baskin Engr 301A	Staff	
22531		MATH-11B-01B		Secondary Lab		LBS	MW		05:00P-06:45P		Eight Acad 252	Staff	
22533		MATH-11B-01C		Secondary Lab		LBS	MW		07:00P-08:45P		Eight Acad 252	Staff	
22535		MATH-11B-01D		Secondary Lab		LBS	TTh		08:00A-09:45A		PhysSciences 140	Staff	
29251		MATH-11B-01E		Secondary Lab		LBS	TTh		06:00P-07:45P		Eight Acad 250	Staff	
29253		MATH-11B-01F		Secondary Lab		LBS	TTh		08:00P-09:45P		Eight Acad 250	Staff	
10005		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>									
22537		MATH-19A-01A		Secondary Lab		LBS	TTh		08:00A-09:45A		J Baskin Engr 301A	Staff	
22539		MATH-19A-01B		Secondary Lab		LBS	MW		12:00P-01:45P		J Baskin Engr 301A	Staff	
22541		MATH-19A-01C		Secondary Lab		LBS	TTh		12:00P-01:45P		J Baskin Engr 301B	Staff	
22543		MATH-19A-01D		Secondary Lab		LBS	MW		05:00P-06:45P		J Baskin Engr 301B	Staff	
22545		MATH-19A-01E		Secondary Lab		LBS	TTh		06:00P-07:45P		J Baskin Engr 301B	Staff	
32685		MATH-19A-01F		Secondary Lab		LBS	TTh		02:00P-03:45P		Oakes Acad 106	Staff	
22547		MATH-19A-02		Calc:Sci,Engin,Math	5	NQ	LEC	MWF	12:30P-01:40P		ClassroomUnit 001	Bauerle,F.	R
				<i>Enroll in lecture and associated secondary lab.</i>									
22549		MATH-19A-02A		Secondary Lab		LBS	MW		08:00A-09:45A		J Baskin Engr 301B	Staff	
22551		MATH-19A-02B		Secondary Lab		LBS	TTh		10:00A-11:45A		J Baskin Engr 301A	Staff	
22553		MATH-19A-02C		Secondary Lab		LBS	MW		02:00P-03:45P		J Baskin Engr 301A	Staff	
35421		MATH-19A-02D		Secondary Lab		LBS	TTh		08:00P-09:45P		J Baskin Engr 301A	Staff	
22555		MATH-19B-01		Calc:Sci,Engin,Math	5	NQ	LEC	MWF	12:30P-01:40P		Thim Lecture 003	Eastman,M.R.	R
				<i>Enroll in lecture and associated secondary lab.</i>									
22557		MATH-19B-01A		Secondary Lab		LBS	TTh		08:00A-09:45A		J Baskin Engr 301B	Staff	
22559		MATH-19B-01B		Secondary Lab		LBS	MW		02:00P-03:45P		J Baskin Engr 301B	Staff	
22561		MATH-19B-01C		Secondary Lab		LBS	MW		07:00P-08:45P		J Baskin Engr 301A	Staff	
22563		MATH-19B-01D		Secondary Lab		LBS	TTh		04:00P-05:45P		J Baskin Engr 301B	Staff	
22565		MATH-19B-01E		Secondary Lab		LBS	MW		05:00P-06:45P		Eight Acad 250	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
36148		MATH-19B-01F		Secondary Lab		LBS	MW		07:00P-08:45P		Eight Acad 250	Staff	
22569		MATH-20A-01		Honors Calculus	5	NQ	LEC	MWF	12:30P-01:40P		Earth&Marine B214	Mitchell,R.R.	R
				<i>Enroll in lecture and associated discussion section.</i>									
30487		MATH-20A-01A		Discussion			DIS	TTh	08:00A-09:45A		Kresge Clrm 319	Staff	
30551		MATH-20A-01B		Discussion			DIS	MW	05:00P-06:45P		Kresge Clrm 319	Staff	
22571		MATH-21-01		Linear Algebra	5	Q	LEC	MWF	02:00P-03:10P		Steven Acad 150	Staff	R
22573		MATH-21-01A		Discussion			DIS	TTh	08:00A-09:45A		PhysSciences 136	Staff	
22575		MATH-21-01B		Discussion			DIS	MW	07:00P-08:45P		PhysSciences 136	Staff	
22577		MATH-22-01		Calc of Several Var	5		LEC	MWF	12:30P-01:40P		Earth&Marine B206	Staff	R
				<i>Enroll in lecture and associated discussion section.</i>									
10003		MATH-22-01A		Secondary Lab			LBS	TTh	02:00P-03:45P		J Baskin Engr 301B	Staff	
30599		MATH-22-01B		Secondary Lab			LBS	MW	05:00P-06:45P		PhysSciences 140	Staff	
22579		MATH-22-01C		Secondary Lab			LBS	MW	07:00P-08:45P		PhysSciences 140	Staff	
22581		MATH-22-01D		Secondary Lab			LBS	TTh	08:00A-09:45A		Earth&Marine B210	Staff	
30601		MATH-22-01E		Secondary Lab			LBS	TTh	06:00P-07:45P		PhysSciences 136	Staff	
22583		MATH-22-01F		Secondary Lab			LBS	TTh	08:00P-09:45P		PhysSciences 136	Staff	
31855		MATH-22-01G		Secondary Lab			LBS	MW	05:00P-06:45P		Earth&Marine B214	Staff	
31857		MATH-22-01H		Secondary Lab			LBS	MW	07:00P-08:45P		Earth&Marine B214	Staff	
22585		MATH-23A-01		Multivariable Calc	5		LEC	MWF	03:30P-04:40P		Steven Acad 150	Mitchell,R.R.	R
				<i>Enroll in lecture and associated discussion section.</i>									
22587		MATH-23A-01A		Secondary Lab			LBS	TTh	08:00A-09:45A		Earth&Marine B214	Staff	
22589		MATH-23A-01B		Secondary Lab			LBS	TTh	02:00P-03:45P		Earth&Marine B214	Staff	
22591		MATH-23A-01C		Secondary Lab			LBS	TTh	06:00P-07:45P		Earth&Marine B210	Staff	
22593		MATH-23A-01D		Secondary Lab			LBS	TTh	08:00P-09:45P		Earth&Marine B210	Staff	
22595		MATH-23B-01		Multivariable Calc	5		LEC	MWF	12:30P-01:40P		Steven Acad 150	Ginzburg,V.	R
				<i>Enroll in lecture and associated discussion section.</i>									
22597		MATH-23B-01A		Secondary Lab			LBS	MW	10:00A-11:45A		J Baskin Engr 301A	Staff	
22599		MATH-23B-01B		Secondary Lab			LBS	MW	05:00P-06:45P		Earth&Marine B210	Staff	
35455		MATH-23B-01C		Secondary Lab			LBS	TTh	06:00P-07:45P		Oakes Acad 106	Staff	
35457		MATH-23B-01D		Secondary Lab			LBS	TTh	08:00P-09:45P		Oakes Acad 106	Staff	
22601		MATH-30-01		Math Problm Solving	5		LEC	MWF	12:30P-1:40P		J Baskin Engr 165	Cooperstein,B.N.	R
22609		MATH-100-01		Intr Proof/Prb Solv	5		LEC	MWF	02:00P-3:10P		Phys Sciences 130	Cooperstein,B.N.	R
22611		MATH-100-01A		Discussion			DIS	M	12:30P-01:40P		Thimann Lab 101	Staff	
22613		MATH-100-01B		Discussion			DIS	W	03:30P-04:40P		Thimann Lab 101	Staff	
22615		MATH-103-01		Complex Analysis	5		LEC	MWF	09:30A-10:40A		Earth&Marine B210	Ehrhardt,T.	R
22617		MATH-103-01A		Discussion			DIS	M	02:00P-03:10P		J Baskin Engr 169	Staff	
22619		MATH-103-01B		Discussion			DIS	W	03:30P-04:40P		J Baskin Engr 169	Staff	
36159		MATH-105A-01		Real Analysis	5		LEC	MWF	02:00P-03:10P		Earth&Marine B210	Staff	R
36160		MATH-105A-01A		Discussion			DIS	T	12:00P-01:10P		J Baskin Engr 169	Staff	
36161		MATH-105A-01B		Discussion			DIS	W	05:00P-06:10P		J Baskin Engr 169	Staff	
22621		MATH-106-01		Ordinary Diff Equas	5		LEC	TTh	02:00P-03:45P		N. Sci Annex 103	Schonbek,M.	R
31609		MATH-110-01		Intro Number Theory	5	Q	LEC	MWF	09:30A-10:40A		PhysSciences 114	Mason,G.	R
31611		MATH-110-01A		Discussion			DIS	M	03:30P-04:40P		Oakes Acad 106	Staff	
31613		MATH-110-01B		Discussion			DIS	W	02:00P-03:10P		Eight Acad 252	Staff	
36162		MATH-117-01		Adv Linear Algebra	5		LEC	MWF	12:30P-01:40P		Soc Sci 2 165	Mason,G.	R
36163		MATH-117-01A		Discussion			DIS	M	03:30P-04:40P		J Baskin Engr 169	Staff	R
36568		MATH-117-01B		Discussion			DIS	T	02:00P-03:10P		J Baskin Engr 169	Staff	
32199		MATH-124-01		Intro To Topology	5		LEC	TTh	12:00P-01:45P		Kresge Clrm 319	Tamanoi,H.	R
22623		MATH-128A-01		Classical Geometry	5		LEC	MWF	11:00A-12:10P		Earth&Marine B214	Lewis,D.K.	R
29255		MATH-200-01		Algebra I	5		LEC	MW	10:00A-11:45A		J Baskin Engr 358	Boltje,R.	R
30751		MATH-203-01		Algebra IV	5		LEC	MW	10:00A-11:45A		J Baskin Engr 360	Weissman,M.	R
30753		MATH-204-01		Analysis I	5		LEC	TTh	02:00P-03:45P		J Baskin Engr 273	Widom,H.	R
36164		MATH-207-01		Complex Analysis	5		LEC	TTh	12:00P-01:45P		J Baskin Engr 360	Tromba,A.J.	R
30755		MATH-208-01		Manifolds I	5		LEC	MW	12:00P-01:45P		J Baskin Engr 360	Qing,J.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
32203		MATH-213A-01		Partial Dif Eqtns I	5	LEC	TTh		10:00A-11:45A		J Baskin Engr 360	Schonbek,M.	R
36166		MATH-214-01		Finite Groups	5	LEC	MW		02:00P-03:45P		J Baskin Engr 360	Boltje,R.	R
36167		MATH-229-01		Kac-Moody Algebras	5	LEC	TTh		10:00A-11:45A		J Baskin Engr 273	Dong,C.	R
22911		MATH-292-01		Seminar	0	SEM	TTh		04:00P-05:45P		J Baskin Engr 301A	Lewis,D.K.	R

Microbiology and Environmental Toxicology

36608		METX-119-01		Microbiology	5	LEC	MWF		11:00A-12:10P		Oakes Acad 105	Yildiz,F.	R	
<i>Enroll in lecture and associated discussion section; also offered as BIOL 119</i>														
36609		METX-119-01A		Discussion		DIS			**To Be Arranged**			Staff		
36610		METX-119-01B		Discussion		DIS			**To Be Arranged**			Staff		
36611		METX-119-01C		Discussion		DIS			**To Be Arranged**			Staff		
36612		METX-119-01D		Discussion		DIS			**To Be Arranged**			Staff		
36613		METX-119L-01		Gen Microbio Lab	5	W LAB	TTh		02:00P-05:00P		Thimann Lab 223	Staff	R	
<i>Also offered as BIOL 119L</i>														
						M	<i>03:30P-04:40P PhysSciences 140</i>							
36614		METX-119L-02		Gen Microbio Lab	5	W LAB	TTh		02:00P-05:00P		Thimann Lab 229	Staff	R	
<i>Also offered as BIOL 119L</i>														
						M	<i>03:30P-04:40P PhysSciences 140</i>							
35987		METX-200-01		Intrdisc Appr	5	LEC			**To Be Arranged**			Camps,M. Flegal,A.R. Ottemann,K.M.	R	
31575		METX-281C-01		TopicsEnvirMicrobio	2	SEM			**To Be Arranged**			Saltikov,C.W.	R	
19325		METX-281F-01		Topics Aquatic Tox	5	SEM			**To Be Arranged**			Flegal,A.R.	R	
34083		METX-281M-01		Topics Molec Toxic	2	SEM			**To Be Arranged**			Camps,M.	R	
31527		METX-281O-01		Bacterial Pathogen	2	SEM			**To Be Arranged**			Ottemann,K.M.	R	
31529		METX-281S-01		Cell&Org/Toxicants	5	SEM			**To Be Arranged**			Smith,D.R.	R	
19327		METX-281Y-01		Bacterial Biofilms	2	SEM			**To Be Arranged**			Yildiz,F.	R	
19329		METX-292-01		Intro Grad Seminar	0	SEM	T		12:00P-01:00P		PhysSciences 240	Camps,M.	R	

Music

10007	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>													
23539	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>													
23541	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>													
23547	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>													
10009	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>													
23549	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>													
36577	Y	MUSC-6-01		ClassicalGuitarEns	2	A	STU	M	07:00P-09:00P		Music Center 131	Ozgen,M.	
										W	08:30P-10:30P	Music Center 114	
23551	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>													
32989	Y	MUSC-10-01		Eurasian Ensemble	2	A	STU	Th	02:30P-04:30P		Music Center 130	Merchant,T.H.	
32347		MUSC-11A-01		Classical/MidAges/Pres	5	HA	LEC	MWF	11:00A-12:10P		Music Center 101	Miller,L.E.	
36576		MUSC-11B-01		Intro to Jazz	5	HAE	LEC	TTh	12:00P-01:45P		Music Center 101	Hester,K.E.	
10015	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>													
23553	Y	MUSC-30A-02		Theor, Lit, Music I	5	LEC	MW		09:30A-10:40A		Music Center 131	Nauert,P.	
<i>See Enrollment Conditions for instructions; concurrent enrollment in MUSC 30L is required</i>													
										MWF	11:00A-12:10P	Music Center 136	Arulanantham,E.L.
30453	Y	MUSC-30A-03		Theor, Lit, Music I	5	LEC	MW		09:30A-10:40A		Music Center 131	Nauert,P.	
<i>See Enrollment Conditions for instructions; concurrent enrollment in MUSC 30L is required</i>													
										MWF	12:30P-01:40P	Music Center 130	Ezerova,M.V.

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23555	Y	MUSC-30L-01		Theory,Lit,Music I	2		LAB		**To Be Arranged**			Nauert,P.	
				<i>See Enrollment Conditions for instructions; concurrent enrollment in MUSC 30A is required</i>							Ezerova,M.V.		
23557		MUSC-30L-01A		Secondary Lab			LBS		**To Be Arranged**			Staff	
23559		MUSC-30L-01B		Secondary Lab			LBS		**To Be Arranged**			Staff	
23561		MUSC-30L-01C		Secondary Lab			LBS		**To Be Arranged**			Staff	
23563		MUSC-30L-01D		Secondary Lab			LBS		**To Be Arranged**			Staff	
23565		MUSC-30L-01E		Secondary Lab			LBS		**To Be Arranged**			Staff	
23567	Y	MUSC-30L-02		Theory,Lit,Music I	2		LAB		**To Be Arranged**			Nauert,P.	
				<i>Concurrent enrollment in MUSC 30A 02 is required.</i>							Arulanantham,E.L.		
23569		MUSC-30L-02A		Secondary Lab			LBS		**To Be Arranged**			Staff	
23571		MUSC-30L-02B		Secondary Lab			LBS		**To Be Arranged**			Staff	
23573		MUSC-30L-02C		Secondary Lab			LBS		**To Be Arranged**			Staff	
23575		MUSC-30L-02D		Secondary Lab			LBS		**To Be Arranged**			Staff	
23577		MUSC-30L-02E		Secondary Lab			LBS		**To Be Arranged**			Staff	
30455	Y	MUSC-30L-03		Theory,Lit,Music I	2		LAB		**To Be Arranged**			Nauert,P.	
				<i>Concurrent enrollment in MUSC 30A 03 is required.</i>							Ezerova,M.V.		
30457	Y	MUSC-30L-03A		Secondary Lab			LBS		**To Be Arranged**			Staff	
30459	Y	MUSC-30L-03B		Secondary Lab			LBS		**To Be Arranged**			Staff	
30461	Y	MUSC-30L-03C		Secondary Lab			LBS		**To Be Arranged**			Staff	
30463	Y	MUSC-30L-03D		Secondary Lab			LBS		**To Be Arranged**			Staff	
30465	Y	MUSC-30L-03E		Secondary Lab			LBS		**To Be Arranged**			Staff	
23579	Y	MUSC-51-01		Vocal Repertoire Class	2	A	STU	TTh	02:00P-03:00P		Music Center 138	Staff	
				<i>See Enrollment Conditions for instructions.</i>									
23583	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>									
23585	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>									
23587	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>									
23589	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>									
	Y	MUSC-61-XXX		Inv Lsson Half Hour	2		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-62-XXX		Inv Lesson One Hour	3		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-63-XXX		Grp Instrum & Vocal	2		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
32993		MUSC-75-01		Beg Improv Theory	5	A	LEC	TTh	12:00P-01:45P		Music Center 138	Staff	R
23711		MUSC-80C-01		Hist Electronic Mus	5	6A	LEC	TTh	10:00A-11:45A		Music Center 101	Staff	
35988		MUSC-80G-01		Amer Music Theater	5	4A	LEC	TTh	02:00P-03:45P		Music Center 131	Lieberman,F.	
36582		MUSC-80G-01A		Discussion			DIS	W	07:00P-10:30P		Music Center 131	Staff	
32267		MUSC-80P-01		HistoryJewishMusic	5	4AE	LEC	TTh	10:00A-11:45A		Music Center 131	Tchamni,A.	
32005		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>									
	Y	MUSC-94-XXX		Group Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-99-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-99F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
23755		MUSC-100A-01		Theory,Lit,Music II	5		LEC	MWF	09:30A-10:40A		Music Center 138	Sackett,J.	R
23763		MUSC-100A-02		Theory,Lit,Music II	5		LEC	MWF	11:00A-12:10P		Music Center 138	Sackett,J.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
23771		MUSC-101C-01		Hist West Art Music	5	LEC	MWF		12:30P-01:40P		Music Center 131	Staff	R
30975	Y	MUSC-102-01		University Orchestra	2	A	STU	TTh	05:00P-07:00P		Music Center 114	Paient,N.A.	
				<i>See Enrollment Conditions for instructions</i>									
32349	Y	MUSC-103-01		Univ Concert Choir	2	A	STU	MW	05:00P-06:45P		Music Center 131	Staff	
				<i>See Enrollment Conditions for instructions</i>									
36578		MUSC-111B-01		Sem: Jazz Analysis	5		SEM	Th	02:00P-03:45P		Music Center 136	Hester,K.E.	R
23773		MUSC-125-01		Adv Elec Sound Synt	5		STU	TTh	02:00P-03:45P		Music Center 191A	Elsa,P.Q.	R
35990		MUSC-130-01		Orchestration	5		LEC	TTh	12:00P-01:45P		Music Center 136	Kim,H.K.	R
23775	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>									
23777	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>									
	Y	MUSC-161-XXX		Inv Lesson One Hour	3		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-162-XXX		Adv Inv Lsson One H	5		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
23887	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>									
	Y	MUSC-165-XXX		Chamber Music Wkshp	2		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
23941	Y	MUSC-166-01		Chamber Singers	2	A	STU	M	03:00P-05:00P		Music Center 131	Paient,N.A.	
				<i>See Enrollment Conditions for instructions.</i>				WF	02:00P-04:00P		Music Center 131		
23943		MUSC-167-01		Wksp Electron Music	2		STU		**To Be Arranged**		Music Center 191A	Elsa,P.Q.	R
	Y	MUSC-192-XXX		Dir Stu Teach	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-195A-XXX		Senior Thesis	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-195B-XXX		Senior Thesis	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-196A-XXX		Sen Rec W/O Lessons	5		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-196B-XXX		Sen Rec W/Lessons	5		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-199-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-199F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
24119		MUSC-200-01		Intro Res Methods	5		SEM	M	04:00P-07:00P		Music Center 128	Treadwell,N.K.	
35992		MUSC-206B-01		Computer Asstd Comp	5		LEC		**To Be Arranged**			Cope,D.H.	
31445		MUSC-252-01		Current Issues Coll	2		SEM	T	04:00P-05:30P		Music Center 131	Burman-Hall,L.C.	R
35993		MUSC-253C-01		Music/Discourse	5		SEM	W	07:00P-10:00P		Music Center 130	Lieberman,F.	R
36579		MUSC-254C-01		Perf Thry/Practice	5		SEM	W	10:00A-01:00P		Music Center 128	Treadwell,N.K.	R
	Y	MUSC-261-XXX		Grad Applied Instru	3		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-265-XXX		Grad Ensem Particip	2		STI		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
35499	Y	MUSC-267-01		Wksp Computer Music	2		STU	W	02:00P-05:00P		Music Center 191A	Elsa,P.Q.	
				<i>Also offered as DANM 267.</i>									
	Y	MUSC-295-XXX		Directed Reading	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
	Y	MUSC-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
Y	MUSC-298-XXX	Graduate Recital	5	STI	**To Be Arranged**							Staff	R
		<i>See sponsoring agency for class number</i>											
Y	MUSC-299-XXX	Thesis Research	5	IND	**To Be Arranged**							Staff	
		<i>See sponsoring agency for class number</i>											

Ocean Sciences

10013	OCEA-1-01	The Oceans	5	NQ	LEC	MWF	12:30P-01:40P	Media Theater M110	Edwards,C.A.				
		<i>Enroll in lecture and associated discussion section.</i>											
24625	OCEA-1-01A	Discussion			DIS	M	09:15A-10:30A	Earth&Marine D266	Staff				
24627	OCEA-1-01B	Discussion			DIS	M	02:15P-03:30P	Earth&Marine D266	Staff				
24629	OCEA-1-01C	Discussion			DIS	M	03:40P-04:55P	Earth&Marine D266	Staff				
24631	OCEA-1-01D	Discussion			DIS	M	05:00P-06:15P	Earth&Marine D266	Staff				
24633	OCEA-1-01E	Discussion			DIS	M	06:25P-07:40P	Earth&Marine D266	Staff				
24635	OCEA-1-01F	Discussion			DIS	T	09:00A-10:15A	Earth&Marine D266	Staff				
24637	OCEA-1-01G	Discussion			DIS	T	10:20A-11:35A	Earth&Marine D266	Staff				
24639	OCEA-1-01H	Discussion			DIS	T	11:45A-01:00P	Earth&Marine D266	Staff				
35994	OCEA-1-01I	Discussion			DIS	T	01:10P-02:25P	Earth&Marine D266	Staff				
35995	OCEA-1-01J	Discussion			DIS	T	02:30P-03:45P	Earth&Marine D266	Staff				
35996	OCEA-1-01K	Discussion			DIS	T	04:00P-05:15P	Earth&Marine D266	Staff				
35997	OCEA-1-01L	Discussion			DIS	T	05:30P-06:45P	Earth&Marine D266	Staff				
10017	OCEA-80A-01	Life In The Sea	5	2	LEC	TTh	06:00P-07:45P	Earth&Marine B206	Staff				
		<i>Enroll in lecture and associated discussion section.</i>											
24641	OCEA-80A-01A	Discussion			DIS	W	09:30A-10:50A	Earth&Marine D266	Staff				
24643	OCEA-80A-01B	Discussion			DIS	W	11:00A-12:20P	Earth&Marine D266	Staff				
24645	OCEA-80A-01C	Discussion			DIS	W	12:30P-01:50P	Earth&Marine D266	Staff				
24647	OCEA-80A-01D	Discussion			DIS	W	02:00P-03:20P	Earth&Marine D266	Staff				
24649	OCEA-80A-01E	Discussion			DIS	W	03:30P-04:50P	Earth&Marine D266	Staff				
24651	OCEA-80A-01F	Discussion			DIS	W	05:00P-06:20P	Earth&Marine D266	Staff				
24653	OCEA-80A-01G	Discussion			DIS	W	06:30P-07:50P	Earth&Marine D266	Staff				
24655	OCEA-80A-01H	Discussion			DIS	Th	09:00A-10:20A	Earth&Marine D266	Staff				
24657	OCEA-80A-01I	Discussion			DIS	Th	10:30A-11:50A	Earth&Marine D266	Staff				
24659	OCEA-80A-01J	Discussion			DIS	Th	12:00P-01:20P	Earth&Marine D266	Staff				
24661	OCEA-80A-01K	Discussion			DIS	Th	01:30P-02:50P	Earth&Marine D266	Staff				
35451	OCEA-80A-01L	Discussion			DIS	Th	03:00P-04:20P	Earth&Marine D266	Staff				
24667	OCEA-200-01	Physcl Oceanography	5		LEC	TTh	10:00A-11:45A	Cowell Acad 216	Moore,A.M.				
30619	OCEA-200-01A	Discussion			DIS	M	11:00A-12:10P	Thimann Lab 101	Staff				
35509	OCEA-280-01	Marine Geology	5		LEC	TTh	04:00P-05:45P	PhysSciences 130	Delaney,M.L.			R	
		<i>Also offered as EART 102.</i>											
35513	OCEA-280-01A	Discussion			DIS	T	12:00P-01:10P	Earth&Marine D226	Staff				
35998	OCEA-290J-01	Topics Mar Org Geoc	5		SEM	Th	02:00P-05:00P	J Baskin Engr 169	McCarthy,M.D.			R	
24669	OCEA-292-01	Seminar	0		SEM	W	03:30P-05:00P	Earth&Marine A340	Staff				
35999	OCEA-296-01	Teaching Ocean Sci	2		LEC	M	11:00A-12:00P	Earth&Marine D266	Edwards,C.A.			R	

Philosophy

30935	PHIL-9-01	Intro To Logic	5	HQ	LEC	MWF	09:30A-10:40A	ClassroomUnit 001	Bowin,J.F.				
		<i>Enroll in lecture portion only; mandatory sections will be assigned the first day of class.</i>											
34035	PHIL-9-01A	Discussion			DIS		**To Be Arranged**		Staff				
34037	PHIL-9-01B	Discussion			DIS		**To Be Arranged**		Staff				
34039	PHIL-9-01C	Discussion			DIS		**To Be Arranged**		Staff				
34041	PHIL-9-01D	Discussion			DIS		**To Be Arranged**		Staff				
34043	PHIL-9-01E	Discussion			DIS		**To Be Arranged**		Staff				
34045	PHIL-9-01F	Discussion			DIS		**To Be Arranged**		Staff				
36000	PHIL-22-01	Ethical Theory	5	H	LEC	MW	05:00P-06:45P	J Bask Aud 101	Guevara,D.E.				
		<i>Enroll in lecture portion only; mandatory sections will be assigned the first day of class.</i>											
36001	PHIL-22-01A	Discussion			DIS		**To Be Arranged**		Staff				
36002	PHIL-22-01B	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
36003		PHIL-22-01C		Discussion			DIS		**To Be Arranged**			Staff	
36004		PHIL-22-01D		Discussion			DIS		**To Be Arranged**			Staff	
36005		PHIL-22-01E		Discussion			DIS		**To Be Arranged**			Staff	
36006		PHIL-22-01F		Discussion			DIS		**To Be Arranged**			Staff	
36007		PHIL-22-01G		Discussion			DIS		**To Be Arranged**			Staff	
36008		PHIL-22-01H		Discussion			DIS		**To Be Arranged**			Staff	
31419		PHIL-80G-01		Bioethics 21st Cent	5 6		LEC TTh		02:00P-03:45P		Earth&Marine B206	Akeson,M.A.	
<i>Enroll in lecture and associated discussion section; also offered as BME 80G</i>													
33019		PHIL-80G-01A		Discussion			DIS		**To Be Arranged**			Staff	
33021		PHIL-80G-01B		Discussion			DIS		**To Be Arranged**			Staff	
33023		PHIL-80G-01C		Discussion			DIS		**To Be Arranged**			Staff	
33025		PHIL-80G-01D		Discussion			DIS		**To Be Arranged**			Staff	
33027		PHIL-80G-01E		Discussion			DIS		**To Be Arranged**			Staff	
33029		PHIL-80G-01F		Discussion			DIS		**To Be Arranged**			Staff	
33031		PHIL-80G-01G		Discussion			DIS		**To Be Arranged**			Staff	
33033		PHIL-80G-01H		Discussion			DIS		**To Be Arranged**			Staff	
36292		PHIL-80G-01I		Discussion			DIS		**To Be Arranged**			Staff	
36293		PHIL-80G-01J		Discussion			DIS		**To Be Arranged**			Staff	
36294		PHIL-80G-01K		Discussion			DIS		**To Be Arranged**			Staff	
36295		PHIL-80G-01L		Discussion			DIS		**To Be Arranged**			Staff	
24941		PHIL-100A-01		Ancient Greek Phil	5		LEC MWF		12:30P-01:40P		Porter Acad 144	Bowin,J.F.	R
<i>Enroll in lecture portion only; mandatory sections will be assigned the first day of class.</i>													
34063		PHIL-100A-01A		Discussion			DIS		**To Be Arranged**			Staff	
34065		PHIL-100A-01B		Discussion			DIS		**To Be Arranged**			Staff	
34067		PHIL-100A-01C		Discussion			DIS		**To Be Arranged**			Staff	
34069		PHIL-100A-01D		Discussion			DIS		**To Be Arranged**			Staff	
34295		PHIL-100A-01E		Discussion			DIS		**To Be Arranged**			Staff	
34297		PHIL-100A-01F		Discussion			DIS		**To Be Arranged**			Staff	
36009		PHIL-107-01		19Th-C Philosophy	5		LEC MWF		03:30P-04:40P		Earth&Marine B214	Hoy,J.B.	R
36010		PHIL-110-01		Heidegger	5		LEC TTh		02:00P-03:45P		Cowell Acad 113	Hoy,D.C.	R
36011		PHIL-114-01		Probability/Confirm	5		LEC TTh		02:00P-03:45P		Cowell Com 134	Otte,R.E.	R
<i>Taught in conjunction with PHIL 214.</i>													
33265		PHIL-133-01		Philosophy Of Mind	5		LEC MW		07:00P-08:45P		Earth&Marine B210	Ellis,J.E.	R
36012		PHIL-171-01		Faith And Reason	5		LEC TTh		10:00A-11:45A		PhysSciences 136	Otte,R.E.	R
<i>Taught in conjunction with PHIL 271.</i>													
36013		PHIL-190N-01		Phil Of Religion	5		SEM W		11:00A-02:00P		Steven Acad 217	Otte,R.E.	R
36615		PHIL-190V-01		Hermeneutics	5		SEM F		02:00P-05:00P		Steven Acad 217	Hoy,D.C.	R
36015		PHIL-214-01		Probability/Confirm	5		LEC TTh		02:00P-03:45P		Cowell Com 134	Otte,R.E.	R
<i>Taught in conjunction with PHIL 214.</i>													
36016		PHIL-290G-01		Wittgenstein	5		SEM F		11:00A-02:00P		Steven Acad 217	Ellis,J.E.	R
Physical Education													
25245	Y	PHYE-5A-01		SwimLev I (non-swim)	0		STU TTh		01:00P-02:00P		50 Mtr Pool	Kimball,J.H.	
<i>See Enrollment Conditions for instructions.</i>													
25247	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>													
25249	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>													
25251	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>													
25253	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>													
25255	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>													

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
10019	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		
									To Be Arranged		Ocean		
				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.)									
25257	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		
									To Be Arranged		Ocean		
				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.)									
10021	Y	PHYE-5T-01		Advan Scuba Diving	0	STU	F		05:00P-08:00P		OPERS Conference 211E	Shin,C.J.	
				See Enrollment Conditions for instructions. First 2 weeks only; remainder of class TBA (ocean, weekends). Must sign up at the OPERS counter, 2nd Floor.									
25259	Y	PHYE-5U-01		Scuba instruction	0	STU	Su		07:00P-09:00P		Martial Arts	Shin,C.J.	
				See Enrollment Conditions for instructions. First meeting only/remainder of class TBA (50m pool, ocean).									
25261	Y	PHYE-5U-01E		Scuba Rescue Diving	0	STU	T		04:00P-06:00P		OPERS Conference 211E	Shin,C.J.	
				See Enrollment Conditions for instructions.									
25263	Y	PHYE-5U-01N		Scuba Divemaster	0	STU	W		04:00P-06:00P		OPERS Conference 211E	Shin,C.J.	
				See Enrollment Conditions for instructions.									
25265		PHYE-9B-01		BegDinghySailing	0	STU	M		09:30A-12:00P		Harbor	Kingon,R.L.	
				First meeting of 9B held at East Field House, main entrance to administration building; participants must be able to swim.									
				Please attend the first meeting even if online enrollment indicates class is full. Classes are for 8 weeks.									
25267		PHYE-9B-02		BegDinghySailing	0	STU	T		09:30A-12:00P		Harbor	Kingon,R.L.	
25269		PHYE-9B-03		BegDinghySailing	0	STU	W		09:30A-12:00P		Harbor	Kingon,R.L.	
25271		PHYE-9B-04		BegDinghySailing	0	STU	Th		09:30A-12:00P		Harbor	Kingon,R.L.	
25273		PHYE-9B-05		BegDinghySailing	0	STU	F		09:30A-12:00P		Harbor	Kilburn,G.B.	
25275		PHYE-9B-06		BegDinghySailing	0	STU	F		12:30P-03:00P		Harbor	Kilburn,G.B.	
25277		PHYE-9C-01		IntermedDinghySail	0	STU	T		12:30P-03:00P		Harbor	Kingon,R.L.	R
				First meeting of 9C held at East Field House, main entrance to administration building. Participants must be able to swim.									
				Please attend first meeting even if online enrollment indicates that class is full. Classes are for 8 weeks. Prerequisite: PHYE 9B.									
25279		PHYE-9C-02		IntermedDinghySail	0	STU	W		12:30P-03:00P		Harbor	Kilburn,G.B.	R
25281		PHYE-9E-01		Competitive Sailing	0	STU	WF		03:00P-04:30P		Harbor	Kingon,R.L.	
				First meeting of 9E at UCSC Marina, SC Small Craft Harbor.									
25285		PHYE-9H-01		Basic Rowing	0	STU	MW		09:45A-11:30A		Harbor	Kilburn,G.B.	
				All 9H and 9J sections meet for 7 weeks only; first class meeting at East Field House main entrance to administration building.									
				Participants must be able to swim. Please attend the first meeting even if online enrollment indicates class is full.									
25287		PHYE-9H-02		Basic Rowing	0	STU	TTh		07:45A-09:30A		Harbor	Kilburn,G.B.	
25289		PHYE-9H-03		Basic Rowing	0	STU	TTh		09:30A-11:15A		Harbor	Kilburn,G.B.	
25291		PHYE-9H-04		Basic Rowing	0	STU	TTh		11:15A-01:00P		Harbor	Kilburn,G.B.	
25283		PHYE-9J-02		Intermed Rowing	0	STU	MW		08:00A-09:45A		Harbor	Kilburn,G.B.	
				All 9H & 9J sections meet for 7 weeks only. First class meeting @ East Fieldhouse, main entrance to administration building.									
				Participants must be able to swim. Please attend the first meeting even if online enrollment indicates class is full. Prerequisite:9H									
25283		PHYE-9J-02		Inter/Adv Rowing	0	STU	TTh		07:45A-09:30A		Harbor	Kilburn,G.B.	
				All 9H & 9J sections meet for 7 weeks only. First class meeting @ East Fieldhouse, main entrance to administration building.									
				Participants must be able to swim. Please attend the first meeting even if online enrollment indicates class is full. Prerequisite:9J									
33751		PHYE-9K-01		Ocean Kayaking	0	STU	TTh		09:00A-11:00A		Harbor	Johnston,D.L.	
				First meeting of sections 9K held at East Fieldhouse, main entrance to administration building. Participants must be able to swim.									
				Please attend the first meeting even if class is full. All 9K sections meet for 5 weeks only.									
33753		PHYE-9K-02		Ocean Kayaking	0	STU	TTh		11:00A-01:00P		Harbor	Johnston,D.L.	
33901		PHYE-9S-01		Inter Keel Sailing	0	STU	Th		12:30P-03:00P		Harbor	Kingon,R.L.	R
				First meeting of 9S held at East Field House, main entrance to administration building. Participants must be able to swim.									
				Please attend first meeting even if online enrollment indicates that class is full. Classes are for 8 weeks. Prerequisite: PHYE 9C									
25293		PHYE-15B-01		Beg/Int Basketball	0	STU	MW		01:00P-02:00P		West Gym	Johnson,G.D.	
25295		PHYE-15B-02		Basketball Conditioning	0	STU	TTh		10:00A-11:00P		West Gym	Hammonds,T.M.	
25297		PHYE-15H-01		Racquetball	0	STU	Th		06:00P-08:00P		E Racquet Ct	George,C.C.	
25299		PHYE-15N-01		Beginning Tennis	0	STU	MW		09:00A-10:00A		E Tennis Ct	Staff	
25301		PHYE-15N-02		Intermediate Tennis	0	STU	MW		10:00A-11:00A		E Tennis Ct	Staff	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
31563	Y	PHYE-15N-03		Advanced Tennis	0	STU	MW		11:00A-12:00P		E Tennis Ct	Staff	
				<i>See Enrollment Conditions for instructions.</i>									
25303	Y	PHYE-15N-04		Comp Tennis-Women	0	STU			**To Be Arranged**			Ness,E.G.	
				<i>See Enrollment Conditions for instructions.</i>									
31545		PHYE-15T-01		Beg/Int Volleyball	0	STU	TTh		11:00A-12:00P		West Gym	Teitelbaum,S.B.	
25305		PHYE-15T-02		Int/Adv Volleyball	0	STU	TTh		12:00P-01:30P		West Gym	Teitelbaum,S.B.	
25307		PHYE-20A-01		Ballet I	0	STU	TTh		10:15A-11:45A		Dance Studio	Bergland,V.M.	
25309		PHYE-20A-02		Continuing Ballet I	0	STU	MW		09:00A-10:30A		Dance Studio	Norris,L.K.	
				<i>Section 20A 02 is for students who have had some Ballet experience</i>									
25311		PHYE-20A-03		Ballet II	0	STU	MW		10:30A-12:00P		Dance Studio	Norris,L.K.	
25313		PHYE-20A-04		Ballet III	0	STU	TTh		01:15P-02:45P		Dance Studio	Norris,L.K.	
34331		PHYE-20B-01		Folk Dance	0	STU	TTh		12:00P-01:00P		Dance Studio	Cochlin,R.V.	
25315		PHYE-20C-01		Jazz Dance I	0	STU	MW		05:15P-06:45P		Dance Studio	Buck,R.F.	
25321		PHYE-20D-01		Modern Dance I	0	STU	MW		03:30P-05:00P		Dance Studio	Buck,R.F.	
25323		PHYE-20D-02		Modern Dance II/III	0	STU	MW		02:00P-03:30P		Dance Studio	Cochlin,R.V.	
25325	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>									
25327		PHYE-25A-01		Fencing:Epee Begin	0	STU	TTh		10:00A-11:00A		East Gym	Blackburn,C.A.	
25329		PHYE-25B-01		Fencing:Foil Begin	0	STU	MW		02:00P-03:00P		East Gym	Blackburn,C.A.	
25331		PHYE-25C-01		Fencing:Sabre Beg	0	STU	TTh		02:00P-03:00P		East Gym	Blackburn,C.A.	
25333		PHYE-28K-01		Beg/Int Soccer	0	STU	TTh		03:00P-04:30P		East Remote Field	Runeare,M.J.	
25335		PHYE-30G-01		Fitness Conditioning	0	STU	TTh		09:00A-10:00A		OPERS Multi Purpose	Radovan,A.D.	
25337		PHYE-30G-02		Total Body Condition	0	STU	MW		04:45P-06:00P		OPERS Multi Purpose	Hallock,L.M.	
32205		PHYE-30G-03		Pilates	0	STU	TTh		10:15A-11:30A		PE Activity Rm	Cochlin,R.V.	
32207		PHYE-30G-04		Pilates	0	STU	MW		10:30A-11:30A		OPERS Multi Purpose	Mc Ilwaine,P.S.	
36018		PHYE-30G-05		Athletic Conditioning	0	STU	TTh		10:30A-11:45A		OPERS Multi Purpose	Radovan,A.D.	
25339		PHYE-30H-01		Tai Chi Chuan	0	STU	TTh		03:10P-04:40P		East Gym	Blackburn,C.A.	
25341		PHYE-30H-02		Tai Chi Chuan	0	STU	MW		03:10P-04:55P		OPERS Multi Purpose	Blackburn,C.A.	
25343		PHYE-30J-01		BeginStrengthTrain-Wmn	0	STU	MW		09:00A-10:30A		Fitness/Wellness	Mori,C.A.	
25345		PHYE-30J-02		Cardio Strength Training	0	STU	TTh		01:00P-02:30P		Fitness/Wellness	Mori,C.A.	
25347		PHYE-30J-03		Cardio Strength Training	0	STU	MW		01:00P-02:30P		Fitness/Wellness	Andrews,R.	
25349		PHYE-30J-04		Begin Strength Training	0	STU	TTh		09:00A-10:30A		Fitness/Wellness	Lewis,D.R.	
25351		PHYE-30J-05		Cont/Beg Strength Train	0	STU	TTh		10:30A-12:00P		Fitness/Wellness	Hallock,L.M.	
25353		PHYE-30J-06		Begin Strength Training	0	STU	MW		10:30A-12:00P		Fitness/Wellness	Mori,C.A.	
25355		PHYE-30L-01		Beginning Yoga	0	STU	WF		10:00A-11:30A		OPERS Multi Purpose	Cochlin,R.V.	
25357		PHYE-30L-02		Beginning Yoga	0	STU	MW		11:30A-01:00P		Martial Arts	Kimball,J.H.	
25359		PHYE-30L-03		Beginning Yoga	0	STU	TTh		10:15A-11:45A		Martial Arts	Kimball,J.H.	
25361		PHYE-30L-04		Cont Beginning Yoga	0	STU	MW		01:00P-02:30P		Martial Arts	Kimball,J.H.	
25363		PHYE-30L-05		Cont Beginning Yoga	0	STU	TTh		08:30A-10:00A		Martial Arts	Kimball,J.H.	
25365		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>									
25367		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>									
25369		PHYE-43A-03		Beginning Aikido	0	STU	MW		10:00A-11:30A		Martial Arts	Shibata,Y.	
25371		PHYE-43A-04		Beginning Aikido	0	STU	TTh		02:45P-04:15P		Martial Arts	Shibata,Y.	
35415		PHYE-43G-01		Begin Tae Kwon Do	0	STU	MW		10:00A-11:00A		West Gym	Song,S.	
35417		PHYE-43G-02		Int/Adv Tae Kwon Do	0	STU	MW		11:00A-12:00P		West Gym	Song,S.	
				<i>Section 43G-02 is for students who have some Tae Kwon Do experience.</i>									

Physics

25373		PHYS-5A-01		Intro Physics I	5	NQ	LEC	MWF	11:00A-12:10P		Thim Lecture 003	Nielsen,J.	R
				<i>Concurrent enrollment in PHYS 5L is required</i>									
25375		PHYS-5D-01		Heat,Thermo&Kinetic	2		LEC	T	04:00P-05:45P		Thim Lecture 001	Kuttner,F.H.	R
35449		PHYS-5I-01		IntroPhysHonors I	2		LEC	W	09:00A-10:30A		ISB 231	Young,A.P.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
25377		PHYS-5L-01		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	T		08:30A-11:30A		Thimann Lab 127	Staff	R
25379		PHYS-5L-02		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	T		12:00P-03:00P		Thimann Lab 127	Staff	R
25381		PHYS-5L-03		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	T		03:30P-06:30P		Thimann Lab 127	Staff	R
25383		PHYS-5L-04		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	T		07:00P-10:00P		Thimann Lab 127	Staff	R
25385		PHYS-5L-05		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	W		03:30P-06:30P		Thimann Lab 127	Staff	R
30479		PHYS-5L-06		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	W		07:00P-10:00P		Thimann Lab 127	Staff	R
30497		PHYS-5L-07		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	Th		08:30A-11:30A		Thimann Lab 127	Staff	R
31473		PHYS-5L-08		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	Th		12:00P-03:00P		Thimann Lab 127	Staff	R
32529		PHYS-5L-09		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	Th		07:00P-10:00P		Thimann Lab 127	Staff	R
35419		PHYS-5L-10		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	F		03:30P-06:30P		Thimann Lab 127	Staff	R
36506		PHYS-5L-11		Intro Phys I Lab <i>Concurrent enrollment in PHYS 5A is required</i>	1	LAB	Sa		09:00A-12:00P		Thimann Lab 127	Staff	R
25387		PHYS-6A-01		Intro Physics I <i>Concurrent enrollment in PHYS 6L is required</i>	5	NQ	LEC	MWF	08:00A-09:10A		Thim Lecture 003	Gweon,G.	R
35469		PHYS-6A-02		Intro Physics I <i>Concurrent enrollment in PHYS 6L is required</i>	5	NQ	LEC	MWF	09:30A-10:40A		Thim Lecture 003	Gweon,G.	R
25389		PHYS-6C-01		Intro Phys III <i>Concurrent enrollment in PHYS 6N is required</i>	5	N	LEC	MWF	03:30P-04:40P		Thim Lecture 003	Kuttner,F.H.	R
25391		PHYS-6L-01		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	M		07:00P-10:00P		Thimann Lab 115	Staff	R
25393		PHYS-6L-02		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	T		08:30A-11:30A		Thimann Lab 115	Staff	R
25395		PHYS-6L-03		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	T		12:00P-03:00P		Thimann Lab 115	Staff	R
25397		PHYS-6L-04		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	T		03:30P-06:30P		Thimann Lab 115	Staff	R
25399		PHYS-6L-05		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	W		07:00P-10:00P		Thimann Lab 115	Staff	R
25401		PHYS-6L-06		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	W		12:00P-03:00P		Thimann Lab 115	Staff	R
25403		PHYS-6L-07		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	W		03:30P-06:30P		Thimann Lab 115	Staff	R
25405		PHYS-6L-08		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	W		07:00P-10:00P		Thimann Lab 115	Staff	R
25407		PHYS-6L-09		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	Th		08:30A-11:30A		Thimann Lab 115	Staff	R
25409		PHYS-6L-10		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	Th		12:00P-03:00P		Thimann Lab 115	Staff	R
36507		PHYS-6L-11		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	Th		03:30P-06:30P		Thimann Lab 115	Staff	R
36508		PHYS-6L-12		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	Th		07:00P-10:00P		Thimann Lab 115	Staff	R
36509		PHYS-6L-13		Intro Phys I Lab <i>Concurrent enrollment in PHYS 6A is required.</i>	1	LAB	F		12:00P-03:00P		Thimann Lab 115	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
36510		PHYS-6L-14		Intro Phys I Lab	1	LAB	F		03:30P-06:30P		Thimann Lab 115	Staff	R
				<i>Concurrent enrollment in PHYS 6A is required.</i>									
36511		PHYS-6L-15		Intro Phys I Lab	1	LAB	F		07:00P-10:00P		Thimann Lab 115	Staff	R
				<i>Concurrent enrollment in PHYS 6A is required.</i>									
36512		PHYS-6L-16		Intro Phys I Lab	1	LAB	Sa		09:00A-12:00P		Thimann Lab 115	Staff	R
				<i>Concurrent enrollment in PHYS 6A is required.</i>									
36513		PHYS-6L-17		Intro Phys I Lab	1	LAB	Sa		12:15P-03:15P		Thimann Lab 115	Staff	R
				<i>Concurrent enrollment in PHYS 6A is required.</i>									
36514		PHYS-6L-18		Intro Phys I Lab	1	LAB	Sa		03:30P-06:30P		Thimann Lab 115	Staff	R
				<i>Concurrent enrollment in PHYS 6A is required.</i>									
25411		PHYS-6N-01		Intro Phys III Lab	1	LAB	T		08:30A-11:30A		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
25413		PHYS-6N-02		Intro Phys III Lab	1	LAB	T		12:00P-03:00P		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
25415		PHYS-6N-03		Intro Phys III Lab	1	LAB	T		03:30P-06:30P		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
25417		PHYS-6N-04		Intro Phys III Lab	1	LAB	T		07:00P-10:00P		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
31027		PHYS-6N-05		Intro Phys III Lab	1	LAB	W		08:30A-11:30A		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
31705		PHYS-6N-06		Intro Phys III Lab	1	LAB	W		12:00P-03:00P		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
31821		PHYS-6N-07		Intro Phys III Lab	1	LAB	W		07:00P-10:00P		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
36046		PHYS-6N-08		Intro Phys III Lab	1	LAB	Th		08:30A-11:30A		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
36047		PHYS-6N-09		Intro Phys III Lab	1	LAB	Th		12:00P-03:00P		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
36048		PHYS-6N-10		Intro Phys III Lab	1	LAB	Th		07:00P-10:00P		Thimann Lab 121	Staff	R
				<i>Concurrent enrollment In PHYS 6C is required</i>									
25425		PHYS-101A-01		Intro Modern Phys I	5	LEC	TTh		02:00P-03:45P		PhysSciences 114	Staff	R
25427		PHYS-101A-01A		Discussion		DIS			**To Be Arranged**			Staff	
25429		PHYS-105-01		Mechanics	5	LEC	MWF		12:30P-01:40P		PhysSciences 114	Johnson,R.P.	R
25431		PHYS-105-01A		Discussion		DIS			**To Be Arranged**			Staff	
35931		PHYS-107-01		IntroFluidDynamics	5	LEC	TTh		08:00A-09:45A		N. Sci Annex 101	Glatzmaier,G.A.	R
				<i>Also offered as AMS 107</i>									
25433		PHYS-116C-01		Math Method Physics	5	LEC	TTh		10:00A-11:45A		PhysSciences 114	Young,A.P.	R
25435		PHYS-116C-01A		Discussion		DIS			**To Be Arranged**			Staff	
29353		PHYS-135A-01		Astrophys Adv Lab	3	LAB	T		12:00P-01:45P		Nat Sci 2 110	Dewey,R.J.	R
				<i>Enroll in lab and associated secondary lab; also offered as ASTR 135A</i>									
30757		PHYS-135A-01A		Secondary Lab		LBS			**To Be Arranged**			Staff	
25437		PHYS-139B-01		Quantum Mechanics	5	LEC	TTh		12:00P-01:45P		ISB 231	Haber,H.E.	R
25439		PHYS-171-01		Genl Relativity	5	LEC	MW		10:00A-11:45A		ISB 235	Dine,M.	R
				<i>Also offered as ASTR 171</i>									
25441		PHYS-195A-01		Sr Thesis Research	3	SEM	M		03:30P-05:00P		PhysSciences 110	Belanger,D.P.	
25587		PHYS-210-01		Classical Mechanics	5	LEC	MWF		11:00A-12:10P		ISB 231	Sher,A.	R
25589		PHYS-212-01		Electromagnetism I	5	LEC	TTh		10:00A-11:45A		ISB 235	Narayan,O.	R
25591		PHYS-217-01		Quant Fld Theory I	5	LEC	MW		02:00P-03:45P		ISB 231	Profumo,S.	R
36049		PHYS-220-01		Theor Many Body Phy	5	LEC	TTh		12:00P-01:45P		ISB 235	Shastry,B.S.	R
25593		PHYS-221A-01		Int Particle Phys I	5	LEC	MWF		12:30P-01:40P		ISB 231	Schumm,B.A.	R
36050		PHYS-231-01		Intro Condes Matter	5	LEC	MW		12:15P-02:00P		ISB 235	Deutsch,J.	R
31701		PHYS-291A-01		Cosmology	2	SEM	M		12:30P-01:30P		ISB 102	Primack,J.R.	R
31703		PHYS-291C-01		Particle Physics	2	SEM	M		12:30P-02:00P		ISB 310	Haber,H.E.	R
32483		PHYS-291D-01		Exp Collider Phys	2	SEM	T		03:00P-04:30P		ISB 310	Nielsen,J.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
32485		PHYS-291E-01		Applied Physics	2		SEM		**To Be Arranged**			Carter,S.A.	R
32487	Y	PHYS-291F-01		Particle Astrophys	2		SEM	Th	12:30P-02:00P		ISB 310	Williams,D.A.	
32489		PHYS-291G-01		Cond Matter Physics	2		SEM	F	02:00P-03:30P		ISB 231	Young,A.P.	R
25595		PHYS-292-01		Seminar	0		SEM	Th	04:00P-05:45P		Thim Lecture 001	Belanger,D.P.	R

Politics

35009		POLI-7-01		Politics of Religion	5	S	LEC	TTh	12:00P-01:45P		Merrill Acad 102	Meister,R.L.	
<i>Enroll in lecture and associated discussion section.</i>													
35011		POLI-7-01A		Discussion			DIS	M	02:00P-03:10P		Porter Acad 148	Staff	
35013		POLI-7-01B		Discussion			DIS	W	11:00A-12:10P		Crown Clrm 208	Staff	
35015		POLI-7-01C		Discussion			DIS	Th	08:30A-09:40A		Porter Acad 148	Staff	
35017		POLI-7-01D		Discussion			DIS	F	02:00P-03:10P		Crown Clrm 208	Staff	
32031		POLI-17-01		US & World Economy	5	S	LEC	TTh	08:00A-09:45A		Merrill Acad 102	Schoenman,R.	
<i>Enroll in lecture and associated discussion section.</i>													
36051		POLI-17-01A		Discussion			DIS	M	11:00A-12:10P		Cowell Clrm 131	Staff	
36052		POLI-17-01B		Discussion			DIS	W	03:30P-04:40P		Crown Clrm 208	Staff	
36053		POLI-17-01C		Discussion			DIS	Th	04:00P-05:10P		Porter Acad 144	Staff	
36054		POLI-17-01D		Discussion			DIS	F	11:00A-12:10P		Porter Acad 148	Staff	
33343		POLI-105A-01		Ancient Pol Thought	5		LEC	MWF	12:30P-01:40P		Merrill Acad 102	Mathiowetz,D.P.	R
<i>Enroll in lecture and associated discussion section; also offered as LGST 105A</i>													
33345		POLI-105A-01A		Discussion			DIS	M	09:30A-10:40A		Cowell Clrm 131	Staff	
33347		POLI-105A-01B		Discussion			DIS	W	05:00P-06:10P		Kresge Acad 194	Staff	
33349		POLI-105A-01C		Discussion			DIS	Th	08:30A-09:40A		Steven Acad 152	Staff	
33351		POLI-105A-01D		Discussion			DIS	F	03:30P-04:40P		Crown Clrm 208	Staff	
33287		POLI-112-01		Women and the Law	5		LEC	TTh	04:00P-05:45P		ClassroomUnit 001	Dent,G.	R
<i>Also offered as FMST 112; mandatory sections to be assigned during first week of class</i>													
33331		POLI-112-01A		Discussion			DIS		**To Be Arranged**			Staff	
33333		POLI-112-01B		Discussion			DIS		**To Be Arranged**			Staff	
33335		POLI-112-01C		Discussion			DIS		**To Be Arranged**			Staff	
33337		POLI-112-01D		Discussion			DIS		**To Be Arranged**			Staff	
33339		POLI-112-01E		Discussion			DIS		**To Be Arranged**			Staff	
33341		POLI-112-01F		Discussion			DIS		**To Be Arranged**			Staff	
36497		POLI-117-01		U.S.TelecomLaw/Policy	5		LEC	TTh	10:00A-11:45A		Porter Acad 148	Lasar,M.	R
33363		POLI-120B-01		Democ Amer Pol Dev	5		LEC	TTh	12:00P-01:45P		Steven Acad 175	Brown,M.K.	R
<i>Enroll in lecture and associated discussion section; also offered as LGST 120B</i>													
33365		POLI-120B-01A		Discussion			DIS	M	09:30A-10:40A		Porter Acad 144	Staff	
33367		POLI-120B-01B		Discussion			DIS	M	11:00A-12:10P		Porter Acad 144	Staff	
33369		POLI-120B-01C		Discussion			DIS	T	08:30A-09:40A		Crown Clrm 208	Staff	
33371		POLI-120B-01D		Discussion			DIS	W	02:00P-03:10P		Crown Clrm 208	Staff	
36498		POLI-132-01		Ca Water Law/Policy	5		LEC	TTh	10:00A-11:45A		Porter Acad 144	Langridge,R.	
<i>Also offered as LGST 132</i>													
33551		POLI-140B-01		Compar Post-Communi	5		LEC	TTh	02:00P-03:45P		Merrill Acad 102	Urban,M.E.	
<i>Enroll in lecture and associated discussion section.</i>													
33553		POLI-140B-01A		Discussion			DIS	M	02:00P-03:10P		Crown Clrm 208	Staff	
33555		POLI-140B-01B		Discussion			DIS	W	12:30P-01:40P		Cowell Clrm 131	Staff	
33557		POLI-140B-01C		Discussion			DIS	Th	08:30A-09:40A		Crown Clrm 208	Staff	
34255		POLI-140B-01D		Discussion			DIS	F	11:00A-12:10P		Crown Clrm 208	Staff	
36055		POLI-143-01		Foreign Rel/China	5		LEC	TTh	02:00P-03:45P		Porter Acad 148	Read,B.	R
36056		POLI-160C-01		Secur,Conf,Viol,War	5		LEC	MWF	09:30A-10:40A		Steven Acad 150	Zwald,Z.	R
<i>Enroll in lecture and associated discussion section.</i>													
36057		POLI-160C-01A		Discussion			DIS	T	08:30A-09:40A		Porter Acad 148	Staff	
36058		POLI-160C-01B		Discussion			DIS	W	05:00P-06:10P		Crown Clrm 208	Staff	
36059		POLI-160C-01C		Discussion			DIS	W	06:30P-07:40P		Crown Clrm 208	Staff	
36060		POLI-160C-01D		Discussion			DIS	F	11:00A-12:10P		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
36149		POLI-173-01		International Law	5	LEC	TTh		08:00A-09:45A		Thim Lecture 001	Staff	R
<i>Enroll in lecture and associated discussion section; also offered as LGST 173</i>													
36150		POLI-173-01A		Discussion		DIS	M		11:00A-12:10P		Crown Clrm 208	Staff	
36151		POLI-173-01B		Discussion		DIS	W		09:30A-10:40A		Crown Clrm 208	Staff	
36152		POLI-173-01C		Discussion		DIS	W		07:00P-08:10P		Porter Acad 148	Staff	
36153		POLI-173-01D		Discussion		DIS	F		08:00A-09:10A		Crown Clrm 208	Staff	
36061		POLI-176-01		Intl Political Econ	5	LEC	TTh		10:00A-11:45A		Crown Clrm 208	Schoenman,R.	R
36535		POLI-190D-01		Anarch/SocialThought	5	SEM	TTh		10:00A-11:45A		Merrill Acad 002	Thomas,M.C.	R
36062		POLI-190L-01		Poverty Politics	5	SEM	MW		07:00P-08:45P		Crown Clrm 201	Bertram,E.C.	R
34257		POLI-190W-01		Livng Aftermat Evil	5	SEM	TTh		04:00P-05:45P		Merrill Acad 002	Meister,R.L.	R
36063		POLI-200C-01		State & Poli Instit	5	SEM	M		04:00P-07:00P		Merrill Acad 134	Wirls,D.J.	R
36064		POLI-251-01		Discourse	5	SEM	TTh		06:00P-07:45P		Crown Clrm 105	Urban,M.E.	R
26125		POLI-291-01		TA Seminar	2	SEM			**To Be Arranged**		Crown Clrm 235	Staff	
Portuguese													
26303		PORT-1A-01		Elmentry Portuguese	5	LEC	MWF		12:30P-01:40P		Kresge Clrm 323	Seara,A.M.	
26305		PORT-60A-01		Beg-Intr Portuguese	5	LEC	MWF		02:00P-03:10P		Kresge Clrm 323	Seara,A.M.	R
26307		PORT-65B-01		Intermed Portuguese	5	H LEC	MWF		03:30P-04:40P		Kresge Clrm 323	Seara,A.M.	R
Psychology													
26379		PSYC-1-01		Intro Psychology	5	S LEC	TTh		10:00A-11:45A		Humn Lecture 206	Crosby,F.J.	
<i>Enroll in lecture and associated discussion section</i>													
26381		PSYC-1-01A		Discussion		DIS	T		06:00P-07:10P		Soc Sci 1 149	Staff	
26383		PSYC-1-01B		Discussion		DIS	T		07:30P-08:40P		Soc Sci 1 149	Staff	
26385		PSYC-1-01C		Discussion		DIS	T		06:00P-07:10P		Cowell Acad 223	Staff	
26387		PSYC-1-01D		Discussion		DIS	T		07:30P-08:40P		Cowell Acad 223	Staff	
26389		PSYC-1-01E		Discussion		DIS	W		08:00A-09:10A		Cowell Acad 223	Staff	
26391		PSYC-1-01F		Discussion		DIS	W		09:30A-10:40A		Soc Sci 2 141	Staff	
26393		PSYC-1-01G		Discussion		DIS	W		11:00A-12:10P		Soc Sci 2 141	Staff	
26395		PSYC-1-01H		Discussion		DIS	W		12:30P-01:40P		Crown Clrm 203	Staff	
26397		PSYC-1-01I		Discussion		DIS	W		05:00P-06:10P		Soc Sci 1 149	Staff	
26399		PSYC-1-01J		Discussion		DIS	W		06:30P-07:40P		Soc Sci 1 149	Staff	
26401		PSYC-1-01K		Discussion		DIS	W		05:00P-06:10P		Soc Sci 1 145	Staff	
26403		PSYC-1-01L		Discussion		DIS	W		06:30P-07:40P		Soc Sci 1 145	Staff	
34111		PSYC-1-01M		Discussion		DIS	Th		08:30A-09:40A		Cowell Acad 223	Staff	
26405		PSYC-3-01		Research Methods	7	LEC	TTh		04:00P-05:45P		Thim Lecture 003	Leaper,C.	R
<i>Enroll in lecture and associated discussion section.</i>													
26407		PSYC-3-01A		Discussion		DIS	T		06:00P-08:00P		Soc Sci 2 104	Staff	
26409		PSYC-3-01B		Discussion		DIS	T		08:00P-10:00P		Soc Sci 2 104	Staff	
26411		PSYC-3-01C		Discussion		DIS	W		08:00A-10:00A		Soc Sci 2 104	Staff	
26413		PSYC-3-01D		Discussion		DIS	W		10:00A-12:00P		Soc Sci 2 104	Staff	
26415		PSYC-3-01E		Discussion		DIS	W		12:00P-02:00P		Soc Sci 2 104	Staff	
26417		PSYC-3-01F		Discussion		DIS	W		02:00P-04:00P		Soc Sci 2 104	Staff	
26419		PSYC-3-01G		Discussion		DIS	W		04:00P-06:00P		Soc Sci 2 104	Staff	
26421		PSYC-3-01H		Discussion		DIS	W		06:00P-08:00P		Soc Sci 2 104	Staff	
26423		PSYC-3-01I		Discussion		DIS	Th		08:00A-10:00A		Soc Sci 2 104	Staff	
26425		PSYC-3-01J		Discussion		DIS	Th		10:00A-12:00P		Soc Sci 2 104	Staff	
32567		PSYC-3-01K		Discussion		DIS	Th		12:00P-02:00P		Soc Sci 2 104	Staff	
33571		PSYC-3-01L		Discussion		DIS	Th		02:00P-04:00P		Soc Sci 2 104	Staff	
26427		PSYC-10-01		Intro Develop Psych	5	LEC	MWF		11:00A-12:10P		Steven Acad 150	Azmitia,M.	R
<i>Enroll in lecture and associated discussion section.</i>													
33573		PSYC-10-01A		Discussion		DIS			**To Be Arranged**		Staff		
33575		PSYC-10-01B		Discussion		DIS			**To Be Arranged**		Staff		
33577		PSYC-10-01C		Discussion		DIS			**To Be Arranged**		Staff		
33579		PSYC-10-01D		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
33581		PSYC-20-01		Intr Cognitive Psyc	5		LEC TTh		02:00P-03:45P		Kresge Clrm 321	Seymour,T.L.	R
				<i>Enroll in lecture and associated discussion section.</i>									
33583		PSYC-20-01A		Discussion			DIS		**To Be Arranged**			Staff	
33585		PSYC-20-01B		Discussion			DIS		**To Be Arranged**			Staff	
33587		PSYC-20-01C		Discussion			DIS		**To Be Arranged**			Staff	
33589		PSYC-20-01D		Discussion			DIS		**To Be Arranged**			Staff	
26429		PSYC-40-01		Intro Social Psych	5		LEC TTh		08:00A-09:45A		J Baskin Engr 152	Pratkanis,A.R.	R
26431		PSYC-80A-01		Psych and Religion	5	3	LEC TTh		02:00P-03:45P		ClassroomUnit 002	Quinn,R.H.	
				<i>Enroll in lecture and associated discussion section.</i>									
26433		PSYC-80A-01A		Discussion			DIS M		12:30P-01:40P		PhysSciences 140	Staff	
26435		PSYC-80A-01B		Discussion			DIS M		05:30P-06:40P		N Sci Annex 103	Staff	
26437		PSYC-80A-01C		Discussion			DIS M		07:00P-08:10P		N Sci Annex 103	Staff	
29259		PSYC-80A-01D		Discussion			DIS T		12:00P-01:10P		N Sci Annex 103	Staff	
26439		PSYC-80A-01E		Discussion			DIS W		11:00A-12:10P		PhysSciences 140	Staff	
29261		PSYC-80A-01F		Discussion			DIS W		12:30P-01:40P		PhysSciences 140	Staff	
26441		PSYC-80A-01G		Discussion			DIS W		08:00A-09:10A		Soc Sci 2 179	Staff	
26443		PSYC-80A-01H		Discussion			DIS W		09:30A-10:40A		Cowell Clrm 131	Staff	
26445		PSYC-80A-01I		Discussion			DIS Th		06:00P-07:10P		Soc Sci 2 179	Staff	
26447		PSYC-80A-01J		Discussion			DIS Th		07:30P-08:40P		Soc Sci 2 179	Staff	
32055		PSYC-80A-01K		Discussion			DIS F		08:00A-09:10A		Soc Sci 2 179	Staff	
36069		PSYC-80A-01L		Discussion			DIS F		03:30P-04:40P		Soc Sci 2 179	Staff	
32057		PSYC-102-01		Adolescent Develop	5		LEC TTh		02:00P-03:45P		Soc Sci 2 075	Cooper,C.R.	R
				<i>Enroll in lecture and associated discussion section.</i>									
33597		PSYC-102-01A		Discussion			DIS		**To Be Arranged**			Staff	
33599		PSYC-102-01B		Discussion			DIS		**To Be Arranged**			Staff	
36070		PSYC-105-01		Children's Thinking	5		LEC MWF		09:30A-10:40A		Soc Sci 2 071	Callanan,M.	R
36071		PSYC-105-01A		Discussion			DIS		**To Be Arranged**			Staff	
36072		PSYC-105-01B		Discussion			DIS		**To Be Arranged**			Staff	
36073		PSYC-119A-01		Sociocultural Devmt	5	W	SEM TTh		10:00A-11:45A		PhysSciences 140	Rogoff,B.	R
33591		PSYC-119B-01		Cultural Psychology	5	E	SEM TTh		06:00P-07:45P		Soc Sci 1 161	Gjerde,P.F.	R
33605		PSYC-119F-01		Language Developmnt	5		SEM TTh		02:00P-03:45P		Soc Sci 1 161	Akhtar,N.N.	R
36075		PSYC-121-01		Perception	5		LEC TTh		08:00A-09:45A		Kresge Clrm 321	Wilson,M.L.	R
36076		PSYC-121-01A		Discussion			DIS T		06:00P-07:10P		Porter Acad 148	Staff	
36077		PSYC-121-01B		Discussion			DIS T		07:30P-08:40P		Porter Acad 148	Staff	
36078		PSYC-121-01C		Discussion			DIS W		09:30A-10:40A		Porter Acad 148	Staff	
36079		PSYC-121-01D		Discussion			DIS W		11:00A-12:10P		Porter Acad 148	Staff	
36080		PSYC-125-01		Psych of Language	5	W	LEC TTh		12:00P-01:45P		Thim Lecture 001	Fox Tree,J.E.	R
36081		PSYC-125-01A		Discussion			DIS T		08:30A-09:40A		Soc Sci 2 179	Staff	
36082		PSYC-125-01B		Discussion			DIS W		11:00A-12:10P		Porter Acad 144	Staff	
36083		PSYC-127-01		Comp Mediated Comm	5		LEC MW		05:00P-06:45P		Cowell Com 134	Kawamoto,A.H.	R
31507		PSYC-135-01		Feelings & Emotions	5		LEC TTh		04:00P-05:45P		Kresge Clrm 321	Gibbs,R.W.	R
36084		PSYC-135-01A		Discussion			DIS		**To Be Arranged**			Staff	
36085		PSYC-135-01B		Discussion			DIS		**To Be Arranged**			Staff	
36086		PSYC-135-01C		Discussion			DIS		**To Be Arranged**			Staff	
36087		PSYC-135-01D		Discussion			DIS		**To Be Arranged**			Staff	
34285		PSYC-140G-01		Women's Lives	5		LEC TTh		10:00A-11:45A		Merrill Acad 102	Grabe,S.A.	R
				<i>Enroll in lecture and associated discussion section.</i>									
36088		PSYC-140G-01A		Discussion			DIS		**To Be Arranged**			Staff	
36089		PSYC-140G-01B		Discussion			DIS		**To Be Arranged**			Staff	
36090		PSYC-140G-01C		Discussion			DIS		**To Be Arranged**			Staff	
36091		PSYC-140G-01D		Discussion			DIS		**To Be Arranged**			Staff	
33621		PSYC-143-01		Intergroup Relations	5	E	LEC MW		05:00P-06:45P		Kresge Clrm 321	Hammack,P.L.	R
				<i>Enroll in lecture and associated discussion section.</i>									
36092		PSYC-143-01A		Discussion			DIS		**To Be Arranged**			Staff	

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36093		PSYC-143-01B		Discussion			DIS		**To Be Arranged**			Staff	
36094		PSYC-143-01C		Discussion			DIS		**To Be Arranged**			Staff	
36095		PSYC-143-01D		Discussion			DIS		**To Be Arranged**			Staff	
36096		PSYC-149-01		Community Psych	5		LEC TTh		12:00P-01:45P		Steven Acad 150	Langhout,R.D.	R
				<i>Enroll in lecture and associated discussion section.</i>									
36097		PSYC-149-01A		Discussion			DIS		**To Be Arranged**			Staff	
36098		PSYC-149-01B		Discussion			DIS		**To Be Arranged**			Staff	
36099		PSYC-149-01C		Discussion			DIS		**To Be Arranged**			Staff	
36100		PSYC-149-01D		Discussion			DIS		**To Be Arranged**			Staff	
34281		PSYC-159E-01		Peace Psychology	5		SEM TTh		08:00A-09:45A		Soc Sci 1 161	Staff	R
32069		PSYC-159I-01		Soc Psyc Flim-Flam	5		SEM TTh		10:00A-11:45A		J Baskin Engr 165	Pratkanis,A.R.	R
36101		PSYC-159J-01		Soc Psych Soc Jus	5		SEM TTh		04:00P-05:45P		Soc Sci 1 161	Crosby,F.J.	R
36504		PSYC-159T-01		Small Groups	5		SEM W		05:00P-08:30P		Oakes Acad 102	Staff	R
26449		PSYC-169-01		Commun Mental Health	5		LEC TTh		10:00A-11:45A		Kresge Clrm 321	Tonay,V.K.	R
33635		PSYC-169-01A		Discussion			DIS		**To Be Arranged**			Staff	
33637		PSYC-169-01B		Discussion			DIS		**To Be Arranged**			Staff	
26451		PSYC-171-01		Child Psychopathol	5		LEC TTh		12:00P-01:45P		Porter Acad 144	Saposnek,D.T.	R
26453		PSYC-171-01A		Discussion			DIS		**To Be Arranged**			Staff	
26455		PSYC-171-01B		Discussion			DIS		**To Be Arranged**			Staff	
26457	Y	PSYC-191A-01		Intro to Psychology	5		SEM F		09:00A-12:00P		Soc Sci 2 104	Crosby,F.J.	
				<i>See Enrollment Conditions for instructions.</i>									
36102		PSYC-204-01		Quant Data Analysis	5		SEM MWF		09:30A-10:40A		Soc Sci 2 137	Staff	R
31037		PSYC-211A-01		SocialJustice/Indiv	5		SEM M		01:00P-04:00P		Soc Sci 2 104	Haney,C.W.	R
36103		PSYC-214B-01		Adv Multivar Techni	5		SEM M		12:30P-02:30P		Soc Sci 2 121	Zurbruggen,E.L.	R
36104		PSYC-221-01		Visual Perception	5		SEM M		02:00P-05:00P		Soc Sci 2 363	Bridgeman,B.	R
27215		PSYC-224A-01		Prosem: Cogni Psy I	5		SEM TTh		02:00P-03:45P		Soc Sci 2 137	Bridgeman,B. Kawamoto,A.H.	R
32071		PSYC-225A-01		Intro Dev Reserch I	3		SEM W		12:00P-03:00P		Soc Sci 2 223	Gjerde,P.F.	R
27217		PSYC-230-01		Cogni Psych Seminar	5		SEM W		03:30P-05:00P		Soc Sci 2 121	Fox Tree,J,E.	R
27219		PSYC-231-01		Social Psych Sem	5		SEM M		10:30A-12:00P		Soc Sci 2 121	Hammack,P.L.	R
27221		PSYC-242-01		Dev Psyc Seminar	5		SEM M		03:30P-05:00P		Soc Sci 2 121	Rogoff,B.	R
32073		PSYC-244A-01		Prosem I:Lang Devel	5		SEM TTh		12:00P-01:45P		Soc Sci 2 137	Akhtar,N.N.	R
33649		PSYC-290B-01		Adv Devel Research	2		SEM M		09:00A-11:00A		Soc Sci 2 221	Rogoff,B.	R
Russian													
27659		RUSS-1-01		Instr Russian Lang	5		LEC MWF		12:30P-01:40P		PhysSciences 130	Nickell,W.S.	
27661		RUSS-4-01		Intermed Russian	5	H	LEC MWF		02:00P-03:10P		PhysSciences 140	Nickell,W.S.	R
Science Communication													
27707		SCIC-201A-01		Reporting Sci News	5		SEM TTh		08:00A-09:45A		KresgeAnnex A 118	Chui,G.G. Mclaughlin,K.J.	R
27709		SCIC-202-01		Writ & Edit Wrkshop	5		SEM TTh		10:00A-11:45A		KresgeAnnex A 118	Desjardins,M.A. Irion,R.W.	R
Social Documentation													
30947		SOCD-200-01		Approach Social Docmt	5		SEM T		02:00P-05:00P		Oakes Acad 109	Rich,B.R.	R
30949		SOCD-202-01		Practice/Social Doc	5		SEM W		02:00P-05:00P		Oakes Acad 109	Tajima,R.	R
36112		SOCD-204-01		Seeing and Hearing	5		SEM T		04:00P-07:00P		Oakes Acad 220	Ochoa,M.	R
				<i>Also offered as DANM 204</i>									
35447		SOCD-290-01		Spec Topcs Soc Doc	5		SEM F		12:30P-03:30P		Soc Sci 2 047	Nakasako,S.	R
							F		03:30P-06:00P		Soc Sci 2 137		
31859		SOCD-291-01		Soc Doc Media Lab	2		LAB		**To Be Arranged**			Rich,B.R.	R
31861		SOCD-291-02		Soc Doc Media Lab	2		LAB		**To Be Arranged**			Tajima,R.	R
32083		SOCD-291-03		Soc Doc Media Lab	2		LAB		**To Be Arranged**			Ochoa,M.	R
36113		SOCD-291-04		Soc Doc Media Lab	2		LAB		**To Be Arranged**			Staff	R
31447		SOCD-294A-01		Prod/Anlysis/Editng	5		SEM M		02:00P-05:00P		Oakes Acad 109	Staff	R

Social Sciences

30861	Y	SOCS-194A-01		UCDC InternResearch	5		FLD		12:00A-12:00A			Foley,M.K.	
<i>This course is scheduled in Washington, D.C.</i>													
30863	Y	SOCS-194B-01		UCDC Intern Seminar	7		FLD		12:00A-12:00A			Foley,M.K.	
<i>This course is scheduled in Washington, D.C.</i>													

Sociology

27743		SOCY-1-01		Intro Sociology	5	S	LEC	TTh	12:00P-01:45P		ClassroomUnit 002	Reinarman,C.	
<i>Enroll in lecture and associated discussion section.</i>													
27745		SOCY-1-01A		Discussion			DIS	M	11:00A-12:10P		Porter Acad 148	Staff	
27747		SOCY-1-01B		Discussion			DIS	M	12:30P-01:40P		Cowell Clrm 131	Staff	
27749		SOCY-1-01C		Discussion			DIS	M	05:00P-06:10P		Eight Acad 242	Staff	
27751		SOCY-1-01D		Discussion			DIS	T	08:30A-09:40A		Eight Acad 242	Staff	
30621		SOCY-1-01E		Discussion			DIS	W	08:00A-09:10A		Eight Acad 242	Staff	
30623		SOCY-1-01F		Discussion			DIS	W	05:00P-06:10P		Eight Acad 242	Staff	
30625		SOCY-1-01G		Discussion			DIS	W	05:00P-06:10P		Kresge Clrm 323	Staff	
30627		SOCY-1-01H		Discussion			DIS	W	06:30P-07:40P		Kresge Clrm 323	Staff	
30629		SOCY-1-01I		Discussion			DIS	Th	06:00P-07:10P		Oakes Acad 102	Staff	
30631		SOCY-1-01J		Discussion			DIS	Th	07:30P-08:40P		Oakes Acad 102	Staff	
32667		SOCY-1-01K		Discussion			DIS	F	08:00A-09:10A		Eight Acad 242	Staff	
32669		SOCY-1-01L		Discussion			DIS	F	11:00A-12:10P		Oakes Acad 106	Staff	
27753		SOCY-15-01		World Society	5	SE	LEC	TTh	04:00P-05:45P		Media Theater M110	Crow,B.D.	
<i>Enroll in lecture and associated discussion section.</i>													
27755		SOCY-15-01A		Discussion			DIS	M	05:00P-06:10P		Oakes Acad 102	Staff	
27757		SOCY-15-01B		Discussion			DIS	M	06:30P-07:40P		Oakes Acad 102	Staff	
27759		SOCY-15-01C		Discussion			DIS	T	08:30A-09:40A		Merrill Acad 130	Staff	
27761		SOCY-15-01D		Discussion			DIS	W	08:00A-09:10A		Merrill Acad 130	Staff	
27763		SOCY-15-01E		Discussion			DIS	Th	08:30A-09:40A		Eight Acad 242	Staff	
27765		SOCY-15-01F		Discussion			DIS	Th	12:00P-01:10P		Kresge Clrm 325	Staff	
29267		SOCY-15-01G		Discussion			DIS	F	08:00A-09:10A		Kresge Clrm 325	Staff	
29269		SOCY-15-01H		Discussion			DIS	F	09:30A-10:40A		Kresge Clrm 325	Staff	
27767		SOCY-30A-01		Global Info Interns	3		LAB	T	06:00P-07:45P		Soc Sci 2 179	Staff	
								Th	06:00P-07:45P		Soc Sci 1 135	Staff	
27781		SOCY-105A-01		Classical Soc Theor	5		LEC	TTh	10:00A-11:45A		ClassroomUnit 001	Greenberg,M.B.	R
<i>Enroll in lecture and associated discussion section.</i>													
27783		SOCY-105A-01A		Discussion			DIS	M	05:00P-06:10P		Kresge Clrm 323	Staff	
27785		SOCY-105A-01B		Discussion			DIS	M	07:30P-08:40P		Kresge Clrm 323	Staff	
27787		SOCY-105A-01C		Discussion			DIS	T	08:00A-09:10A		Cowell Acad 113	Staff	
31903		SOCY-105A-01D		Discussion			DIS	Th	06:00P-07:10P		Kresge Clrm 325	Staff	
27789		SOCY-105A-01E		Discussion			DIS	Th	07:30P-08:40P		Kresge Clrm 325	Staff	
27791		SOCY-105A-01F		Discussion			DIS	F	08:00A-09:10A		Oakes Acad 102	Staff	
31525		SOCY-111-01		Family & Society	5		LEC	MW	05:00P-06:45P		Cowell Clrm 131	Martyna,W.	
36120		SOCY-116-01		Comm & Mass Media	5		LEC	MW	07:00P-08:45P		Engineer 2 194	Gray,H.S.	R
36121		SOCY-121-01		Health & Medicine	5		SEM	TTh	12:00P-01:45P		Soc Sci 2 179	Reardon,J.E.	
32209		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>													
32211		SOCY-1281-01A		Discussion			DIS	M	09:30A-10:40A		Kresge Clrm 325	Staff	
32213		SOCY-1281-01B		Discussion			DIS	Th	06:00P-07:10P		Merrill Acad 130	Staff	
32215		SOCY-1281-01C		Discussion			DIS	Th	07:30P-08:40P		Merrill Acad 130	Staff	
32217		SOCY-1281-01D		Discussion			DIS	F	08:00A-09:10A		Oakes Acad 106	Staff	
36122		SOCY-144-01		Sociology of Women	5		LEC	MW	07:00P-08:45P		PhysSciences 130	West,C.	R
34153		SOCY-149-01		Sex and Gender	5		LEC	TTh	04:00P-05:45P		Eight Acad 250	Guerra,F.	
36123		SOCY-154-01		Cross-Cultur Resear	5		SEM	TTh	02:00P-03:45P		Hum & Soc Sci 350	Staff	R
33675		SOCY-155-01		Poli Consciousness	5		LEC	MW	05:00P-06:45P		Porter Acad 148	Domhoff,G.W.	
36124		SOCY-156-01		US Latino Identity	5	E	LEC	TTh	10:00A-11:45A		Soc Sci 1 161	Sandoval,G.	R

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
36127		SOCY-169-01		Social Inequality	5	E	LEC	MWF	09:30A-10:40A		Oakes Acad 106	Takagi,D.	R
36128		SOCY-171-01		ExpGlobal Inequality	5		SEM	TTh	10:00A-11:45A		Merrill Acad 130	Crow,B.D.	R
36129		SOCY-178-01		Social Problems	5		LEC	MWF	02:00P-03:10P		Oakes Acad 106	Staff	
33695		SOCY-201-01		Make Classic Theory	5		SEM	T	01:00P-04:00P		Eight Acad 301	Greenberg,M.B.	R
33697		SOCY-203-01		Sociol Methods	5		LEC	Th	02:00P-05:00P		Eight Acad 301	West,C.	R
36130		SOCY-204-01		Quantitative Analys	5		SEM	W	09:00A-12:00P		Eight Acad 301	Fukurai,H.	R
33699		SOCY-205-01		Field Research Meth	5		SEM	W	02:00P-05:00P		Eight Acad 301	Millman,M.	R
36131		SOCY-260-01		Culture, Knowl,Powr	5		SEM	M	02:00P-05:00P		Eight Acad 301	Gray,H.S.	R
36139		SOCY-264-01		Sci,Tech & Medicine	5		SEM	T	05:00P-08:00P		Eight Acad 301	Reardon,J.E.	R

Spanish

28385		SPAN-1-01		Instr Spanish Lang	5		LEC	MWF	08:00A-09:10A		Soc Sci 1 149	Morris,M.D.	R
28387		SPAN-1-02		Instr Spanish Lang	5		LEC	MWF	09:30A-10:40A		Soc Sci 1 149	Morris,M.D.	R
31351		SPAN-1-03		Instr Spanish Lang	5		LEC	MWF	02:00P-03:10P		Soc Sci 1 149	Navarro,M.A.	R
33155		SPAN-1-04		Instr Spanish Lang	5		LEC	MWF	03:30P-04:40P		Soc Sci 1 149	Navarro,M.A.	R
35926		SPAN-1-05		Instr Spanish Lang	5		LEC	MWF	03:30P-04:40P		Crown Clrm 203	Staff	R
35927		SPAN-1-06		Instr Spanish Lang	5		LEC	MWF	11:00A-12:10P		Crown Clrm 203	Staff	R
28389		SPAN-2-01		Instr Spanish Lang	5		LEC	MWF	11:00A-12:10P		Hum & Soc Sci 350	Ramirez,F.A.	R
28391		SPAN-2-02		Instr Spanish Lang	5		LEC	MWF	02:00P-03:10P		Hum & Soc Sci 250	Ramirez,F.A.	R
28393		SPAN-2-03		Instr Spanish Lang	5		LEC	MWF	11:00A-12:10P		Kresge Clrm 325	Perez,A.A.	R
28395		SPAN-2-04		Instr Spanish Lang	5		LEC	MWF	03:30P-04:40P		Kresge Clrm 325	Staff	R
28397		SPAN-3-01		Instr Spanish Lang	5		LEC	MWF	11:00A-12:10P		Hum & Soc Sci 250	Barcelo,B.	R
28399		SPAN-3-02		Instr Spanish Lang	5		LEC	MWF	02:00P-03:10P		Steven Acad 152	Calierno,C.	R
28401		SPAN-3-03		Instr Spanish Lang	5		LEC	MWF	03:30P-04:40P		Steven Acad 152	Calierno,C.	R
28403		SPAN-3-04		Instr Spanish Lang	5		LEC	MWF	03:30P-04:40P		Hum & Soc Sci 350	Barcelo,B.	R
28405		SPAN-4-01		Intermed Spanish	5	H	SEM	MWF	02:00P-03:10P		Soc Sci 2 165	Perez,A.A.	R
28407		SPAN-4-02		Intermed Spanish	5	H	SEM	MWF	03:30P-04:40P		Soc Sci 2 165	Perez,A.A.	R
28409		SPAN-4-03		Intermed Spanish	5	H	SEM	MWF	11:00A-12:10P		N. Sci Annex 103	Romero,A.	R
28411		SPAN-4-04		Intermed Spanish	5	H	SEM	MWF	12:30P-01:40P		Hum & Soc Sci 350	Gonzalez Pagani,M.	R
28413		SPAN-5-01		Intermed Spanish	5	H	LEC	MWF	12:30P-01:40P		N. Sci Annex 103	Romero,A.	R
28415		SPAN-5-02		Intermed Spanish	5	H	LEC	MWF	03:30P-04:40P		Soc Sci 1 161	Romero,A.	R
30571		SPAN-5M-01		Medical Spanish	5	H	LEC	MWF	12:30P-01:40P		Hum & Soc Sci 250	Barcelo,B.	R
28417		SPAN-6-01		Intermed/Adv Span	5	H	LEC	MWF	11:00A-12:10P		Soc Sci 1 149	Morris,M.D.	R
28419		SPAN-6-02		Intermed/Adv Span	5	H	LEC	MWF	03:30P-04:40P		Hum & Soc Sci 250	Ramirez,F.A.	R
35932		SPAN-156F-01		El Humor en Espanol	5		LEC	MWF	02:00P-03:10P		Hum & Soc Sci 350	Gonzalez Pagani,M.	R

Spanish for Spanish Speakers

28483		SPSS-61-01		Spanish Speakers	5	H	LEC	MWF	12:30P-01:40P		Soc Sci 1 149	Navarro,M.A.	
28485		SPSS-61-02		Spanish Speakers	5	H	LEC	MWF	11:00A-12:10P		Steven Acad 151	Feliu,V.E.	
30965		SPSS-61-03		Spanish Speakers	5	H	LEC	MWF	03:30P-04:40P		Crown Clrm 202	Feliu,V.E.	

Theater Arts

28561		THEA-10-01		Intro to Design	5	HA	LEC	TTh	02:00P-03:45P		TA Exp Theater L106	Staff	
29399		THEA-12-01		Stage Management	5	A	LEC	TTh	09:00A-10:45A		TA Drama B201	Staff	
36140		THEA-14-01		Drawing	5	A	STU	TTh	10:00A-11:45A		TA Studio C102	Edmunds,K.	R
28563		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>													
34299		THEA-20-01A		Secondary Studio			STS	W	02:00P-03:10P		TA Studio C100	Staff	
34301		THEA-20-01B		Secondary Studio			STS	W	03:30P-04:40P		TA Studio C100	Staff	
34303		THEA-20-01C		Secondary Studio			STS	F	10:00A-11:10A		TA Studio C100	Staff	
34305		THEA-20-01D		Secondary Studio			STS	F	11:30A-12:40P		TA Studio C100	Staff	
36530	Y	THEA-21A-01		Acting IA, Realism	5	A	STU	MWF	11:00A-12:10P		TA Drama B100	Staff	
33707		THEA-31C-01		Dance Studio I	5	A	STU	TTh	08:00A-09:45A		TA Mainstage A105	Warburton,E.C.	
								W	08:00A-09:10A		TA Mainstage A105		
36141		THEA-36-01		Intro Dance Comp	5	HA	STU	MWF	12:00P-01:30P		TA Mainstage A105	Staff	
33709		THEA-40-01		Intro To Directing	5	HA	LEC	TTh	04:00P-05:45P		TA Lecture E100	Whitworth,P.	

Class #	Consent Required	Class ID	Section #	Class Title	Credits	Gen Eds	Components	Class Days	Start Time	End Time	Building and Room	Instructor	Requirements
28567		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, 9/30, 9:00 a.m., on TA Main Stage, remainder TBA</i>									
28569		THEA-50-01A		Secondary Studio			STS		**To Be Arranged**			Staff	
28571		THEA-50-01B		Secondary Studio			STS		**To Be Arranged**			Staff	
29391		THEA-50-01C		Secondary Studio			STS		**To Be Arranged**			Staff	
29393		THEA-50-01D		Secondary Studio			STS		**To Be Arranged**			Staff	
29395		THEA-50-01E		Secondary Studio			STS		**To Be Arranged**			Staff	
29397		THEA-50-01F		Secondary Studio			STS		**To Be Arranged**			Staff	
36531		THEA-61B-01		Tragedy	5	HA	LEC	TTh	02:00P-03:45P		TA 2nd Stage	Bierman,J.H.	
36532		THEA-80E-01		Stand-Up Comedy	5	4A	LEC	TTh	12:00P-01:45P		TA 2nd Stage	Staff	
29761		THEA-80Z-01		Indian Dance	5	4A	STU	TTh	10:00A-11:45A		TA Exp Theater L106	Staff	
33741	Y	THEA-126-01		Acting Studio III	5	A	STU	MW	02:30P-04:00P		TA Drama B100	Staff	
28579	Y	THEA-151-01		Stdy Perform Drama	5	A	STU	MTWTh	07:00P-10:00P		TA Mainstage A100	Staff	
				<i>See Enrollment Conditions for instructions</i>									
29389		THEA-157-01		Playwriting	5	WA	SEM	TTh	10:00A-11:45A		TA 2nd Stage	Staff	R
36143		THEA-161T-01		Women In Theater	5	A	LEC	TTh	12:00P-01:45P		TA Lecture E100	Gallagher,P.M.	
32117		THEA-170-01		Design Seminar	2		SEM	W	03:45P-05:00P		TA Studio C102	Cuthbert,D.L. Edmunds,K.	R
33747		THEA-185-01		Senior Seminar	5		SEM	MW	04:00P-05:45P		TA Lecture E100	Edmunds,K.	R
28747		THEA-290-01		Special Topics	5		SEM	MW	04:00P-05:45P		TA Offices J102	Mostkoff,P.H.	R
Writing													
31547		WRIT-2-01		Rhetoric & Inquiry	5	C2	SEM	MWF	11:00A-12:10P		Kresge Acad 194	Abrams,E.S.	R
31549		WRIT-2-02		Rhetoric & Inquiry	5	C2	SEM	MWF	09:30A-10:40A		Hum & Soc Sci 250	Staff	R
31551		WRIT-2-03		Rhetoric & Inquiry	5	C2	SEM	MWF	12:30P-01:40P		Oakes Acad 222	Freeman,C.M.	R
31553		WRIT-2-04		Rhetoric & Inquiry	5	C2	SEM	TTh	04:00P-05:45P		PhysSciences 140	Baker,M.	R
31555		WRIT-2-05		Rhetoric & Inquiry	5	C2	SEM	TTh	02:00P-03:45P		N. Sci Annex 102	Staff	R
31557		WRIT-2-06		Rhetoric & Inquiry	5	C2	SEM	MWF	12:30P-01:40P		Kresge Acad 194	Staff	R
31559		WRIT-2-07		Rhetoric & Inquiry	5	C2	SEM	TTh	02:00P-03:45P		Merrill Acad 130	Hamilton,R.P.	R
31561		WRIT-2-08		Rhetoric & Inquiry	5	C2	SEM	TTh	04:00P-05:45P		Merrill Acad 130	Hamilton,R.P.	R
33763		WRIT-2-09		Rhetoric & Inquiry	5	C2	SEM	TTh	12:00P-01:45P		Merrill Acad 130	Staff	R
33765		WRIT-2-10		Rhetoric & Inquiry	5	C2	SEM	TTh	10:00A-11:45A		Merrill Acad 132	Staff	R
33767		WRIT-2-11		Rhetoric & Inquiry	5	C2	SEM	MWF	03:30P-04:40P		Kresge Acad 194	Wilson,J.A.	R
33769		WRIT-2-12		Rhetoric & Inquiry	5	C2	SEM	TTh	06:00P-07:45P		Hum & Soc Sci 250	Staff	R
33771		WRIT-2-13		Rhetoric & Inquiry	5	C2	SEM	MWF	02:00P-03:10P		Kresge Acad 194	Staff	R
33773		WRIT-2-14		Rhetoric & Inquiry	5	C2	SEM	MW	05:00P-06:45P		Hum & Soc Sci 250	Staff	R
29071		WRIT-22A-01		Grammar & Editing	3		SEM	MW	02:00P-03:10P		Soc Sci 2 141	Krusoe,N.	
29073		WRIT-22A-02		Grammar & Editing	3		SEM	TTh	06:00P-07:10P		Crown Clrm 202	Staff	
29279		WRIT-22A-03		Grammar & Editing	3		SEM	MW	03:30P-04:40P		Soc Sci 2 141	Krusoe,N.	
31617		WRIT-23-01		Grammar and Rhetoric	5		SEM	TTh	02:00P-03:45P		Hum & Soc Sci 250	Staff	
Y		WRIT-99-XXX		Tutorial	5		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
Y		WRIT-99F-XXX		Tutorial	2		IND		**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
29107	Y	WRIT-169-01		Tutoring Writing	3		SEM	MW	05:00P-06:45P		Kresge Clrm 325	Newberry,E.S.	
				<i>See Enrollment Conditions for instructions</i>									
29109	Y	WRIT-169-02		Tutoring Writing	3		SEM	TTh	04:00P-05:45P		Cowell Acad 113	Weaver,A.L.	
				<i>See Enrollment Conditions for instructions</i>									
33775	Y	WRIT-169-03		Tutoring Writing	3		SEM	TTh	12:00P-01:45P		Cowell Acad 113	Weaver,A.L.	
Y		WRIT-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
Y WRIT-198F-XXX				Indepen Field Study	2	FLI			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
Y WRIT-199-XXX				Tutorial	5	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									
Y WRIT-199F-XXX				Tutorial	2	IND			**To Be Arranged**			Staff	
				<i>See sponsoring agency for class number</i>									

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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.

ADVERTISEMENT

SEX RESPECT: Your Right and Responsibility

You have the right to be in control of your own body and to be treated fairly and respectfully.

This means as a UCSC student you have the right to be free of and have the responsibility to refrain from any sexual harassment, assault, discrimination or retaliation.

It doesn't matter the status of the person on campus or the gender - everyone is expected to abide by the UCSC policies and state and federal laws. Everyone on campus is responsible for these policies, so please reference them on our website:

www2.ucsc.edu/title9-sh/

Contact the:

Title IX/Sexual Harassment Office

■ to schedule educational talks for your group or for informal discussions: lravinal@ucsc.edu or 459-1758

■ for private advice, options for informal resolution or help making a complaint: rew@ucsc.edu or 459-2462 cell pager 331-1804

"No" means No



UC Santa Cruz & SallieMae E-Bill and E-Payment

This convenient, secure account management service is available 24/7 and will send automatic email notification when a new monthly statement is ready to view online.

From the online application you can also:

Make an electronic check payment

Print your bill

Grant online access for parents or "other payers"

Enrolling is easy!

Just log on to [https://my.ucsc.edu/accounts and billing>salliemae](https://my.ucsc.edu/accounts%20and%20billing/salliemae) and follow the simple enrollment steps to activate your e-Bill account.

Student Business Services

(831)459-2107 or oarinfo@ucsc.edu

<http://sbs.ucsc.edu>

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 # _____	class # _____	class # _____	class # _____	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 # _____	class # _____	class # _____	class # _____	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)

Saturday meeting times vary.

HATE- OR BIAS-MOTIVATED INCIDENT REPORTING FORM

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 Vice Chancellor for Student Affairs (VCSA) and the Dean of Students (DOS) are available to provide support to members of the UCSC community. They serve as an ally to, and referral source for, those students 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.

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"/> disability | | <input type="checkbox"/> religion | <input type="checkbox"/> sexual orientation | | <input type="checkbox"/> socio-economic status |

Date: _____ Time: _____ Location: _____

Action you are requesting:

- Information only, no action requested
- Have the VCSA (or designee) contact me for follow-up on this report*
- Review for possible student disciplinary action*
- Have the Dean of Students contact me*
- Forward to Asst. Chancellor (complaints about staff only)*
- Forward to Asst. Chancellor (complaints about faculty only)*

(*) Please provide the following:

Name: _____ Phone: _____ Email: _____

- Student Faculty Staff Other: _____

Send Reporting Forms to:
Student Judicial Affairs
Campus Mail Stop: Student Judicial Affairs
245 Hahn Student Services
Phone: (831) 459-1738 Fax: (831) 459-3188
reporhate@ucsc.edu

DEPARTMENT CONTACT INFORMATION

AGENCY CONTACT, PHONE, LOCATION, E-MAIL	CHAIR, COORDINATOR	AGENCY CONTACT, PHONE, LOCATION, E-MAIL	CHAIR, COORDINATOR
American Studies Dept. Manager: Marti Stanton, 9-3981, 209A Humanities 1 (mstanton@ucsc.edu) Undergraduate Adviser: Donna Davis, 9-4658, 209 Humanities 1 (amst@ucsc.edu)	Eric Porter	Dept. Manager: Gillian McGuire, 9-4102 (gmcguire@ucsc.edu) Placement Asst.: Alison DeAratanha, 9-1261 (alisond@ucsc.edu) Department Asst., Undergraduate Adviser: Heather Cortez, 9-3249 (edfs@ucsc.edu)	
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Ecology and Evolutionary Biology (See Biological Sciences)	Pete Raimondi	Mathematics 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)	Chongying Dong
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Career Center

305 Bay Tree Building, 3rd Floor

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)

Special Events:

Part-Time & Local Job Fair

Thursday, October 1 • Time/Location: TBA

Law School Fair

October • Date/Time/Location: TBA

Graduate and Professional School Fair

Tuesday, October 20, 2009 • 11:00 A.M. to 3:00 P.M. • Location: TBA

Business, Science and Technology Job & Internship Fair

Tuesday, November 3, 2009 • 11:00 A.M. to 3:00 P.M. • Location: TBA

(831) 459-4420 • FAX (831) 459-4018 • <http://www2.ucsc.edu/careers/>

USEFUL PHONE NUMBERS

When dialing from non-university telephones, add the 459- prefix to these extension numbers. When dialing from university telephones, precede these extension numbers with 9.

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