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Dear Reader,

Here is the ninth edition of the Environmental Studies Handbook, which is designed to help students successfully complete the Master of Science degree in the Environmental Studies (ENST) Program at California State University, Fullerton (CSUF). The program is intended to build on your undergraduate expertise and broaden you into ‘bridge scientists,’ environmental analysts, planners, and communicators. Environmental Studies students are often the program’s best resource for information and are given opportunities to share their knowledge and experiences in the courses.

The ENST Program began in the late 1960’s and awarded its first degree in the early 1970’s. More recently, it has become one of the more popular graduate programs at CSUF. The Program is a collaborative effort between participating departments and faculty members, offering an interdisciplinary program covering a wide range of environmental topics to both practicing professionals and new students.

To facilitate advisement and to delineate the scope of the program, three areas of concentration have been developed. Students select a course of study consistent with one of the following three concentrations: Environmental Sciences, Environmental Policy and Planning, and Environmental Education and Communication.

To assist students during their coursework, ENST offers assistance from a Coordinator, Assistant Coordinator, the Environmental Studies Council members and an interdisciplinary office with a shared Secretary. These individuals are here to help students through the Program, however it is each student’s responsibility to know and comply with the Program’s and University’s graduate regulations. Read this manual, the ENST Program and Graduate Regulations section of the CSUF Course Catalog carefully, be aware of deadlines, forms and tasks required in accomplishing your degree. Don’t forget to ask questions!

Should you require additional information about the Program please feel free to contact the ENST office, faculty or website at http://hss.fullerton.edu/envstud. Good luck!!

Sincerely,

Dr. Robert Voeks
Coordinator, ENST Program
New Students
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## New Students

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<td>Late Course Add Sheet</td>
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<td>Late Course Drop Sheet</td>
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WHAT ARE THE ENTRANCE REQUIREMENTS FOR THE ENST PROGRAM AT CSUF?

Students may be conditionally admitted into the program with deficiencies, however all deficiencies must be made up within one (1) year of program admission. Students wishing to enter the ENST Program should recognize that completing ENST courses at CSUF does not guarantee University or Program admission nor acceptance of these (or other post-graduate) courses on any future ENST Study Plan. Minimum requirements for entrance to the ENST Program include:

- A bachelor’s degree from an accredited school,
- Good standing at the last college attended,
- A grade-point average of 3.0 in the last 60 units of coursework attempted,
- Two (2) letters of recommendation, and
- Completion of one (1) course in ecology and one (1) course in quantitative methods.

HOW DO I KNOW IF I NEED TO MAKE UP ANY DEFICIENCIES?

When students are admitted to any CSUF graduate program, Admissions and Records, Graduate Studies and Environmental Studies all sign a “Graduate Recommendation Sheet.” This sheet lists any and all deficiencies of the prospective student. This form has four copies, one for each signator and one copy that is mailed to the student.

Note: Should you not receive a copy of your Graduate Recommendation Sheet when admitted, get a copy from the ENST Program Secretary.

WHAT COURSES MEET THE ECOLOGY OR QUANTITATIVE METHODS REQUIREMENTS?

Lower or upper division courses fulfill these requirements. Courses may be taken at a community college with prior approval from the Coordinator. Transcripts must be sent to the ENST Program and Admissions and Records once the course has been completed, in order to satisfy the deficiency listed on the Graduate Recommendation Sheet. Students may also take the courses from Cal State Fullerton (transcripts need not be sent). Acceptable examples from CSUF include:

<table>
<thead>
<tr>
<th>ECOLOGY</th>
<th>QUANTITATIVE METHODS</th>
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<tbody>
<tr>
<td>BIOL 300  Environmental Biology</td>
<td>MATH 338  Statistics &amp; Natural Sciences</td>
</tr>
<tr>
<td>BIOL 316  Principles of Ecology</td>
<td>SOCI 302  Social Research Methods</td>
</tr>
<tr>
<td>BIOL 319  Marine Biology</td>
<td>SOCI 303  Statistics in Social Sciences</td>
</tr>
<tr>
<td>GEOG 120  Global Environmental Issues</td>
<td>GEOG 485  Geographical Information Systems</td>
</tr>
<tr>
<td>GEOG 350  Nature &amp; Society</td>
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</tr>
</tbody>
</table>

WHAT ARE THE CONCENTRATIONS?

There are three (3) concentrations students may choose to study, including:

- Environmental Sciences
- Environmental Policy and Planning
- Environmental Education and Communication

WHEN DO I DECIDE MY AREA OF CONCENTRATION?

A concentration must be declared on each student's ENST Study Plan. Discuss your interests and background with the Coordinator, Assistant Coordinator, and/or your advisor before making a decision.
WHAT ARE THE DEGREE REQUIREMENTS FOR THE ENST PROGRAM?
Students are required to complete a minimum of thirty-six (36) units with a cumulative GPA of 3.0 to graduate, including:

- Environmental Studies Core Courses (9 units)
  - ENST 500 Environmental Issues and Approaches
  - ENST 510 Environmental Evaluation and Protection
  - ENST 520 Environmental Research and Analysis

- Environmental Studies Electives (9 – 15 units)
  - ENST 595T Selected Topics in Environmental Problems
  - ENST 596 Internship in Environmental Studies
  - ENST 599 Independent Graduate Research

- Cross Disciplinary Electives (CDE) (9 – 15 units)
- One Planning Course must be included (either ENST or CDE Elective)
- Thesis or Project (3 units)
  - ENST 597 Project
  - or -
  - ENST 598 Thesis

DO 300-LEVEL COURSES COUNT TOWARD THE MASTERS DEGREE?
NO! To be included in the degree, courses must be a 400- or 500-level. Students may take 300-level courses, but these are not counted towards meeting degree requirements nor do they get added into the student’s cumulative grade point average.

HOW DO I BECOME INVOLVED IN THE PROGRAM?
Students can involve themselves on campus, through organizations such as the Environmental Studies Student Association. Better known as ESSA, this student group publishes periodic newsletters, sponsors lectures, coordinates field trips and social events, and participates in professional conferences. The level of participation for ESSA sponsored activities has varied over the years.

HOW DO I GET MORE INFORMATION ON THE ENST PROGRAM?
Visit the ENST website at http://hss.fullerton.edu/envstud for more information.

Visit the ENST Board in the southern hallway of the Humanities Building 4th floor.

Speak to the Assistant Coordinator for brochures, handouts and view sheets.
WHAT INTERNSHIPS ARE AVAILABLE?
Center for Internships and Cooperative Education has current internship listings in their office (LH-209). Speak to the Internship Secretary for more information.

HOW DO I CONTACT THE INTERNSHIP CENTER?
Centers for Internships & Cooperative Education 714-278-2171 LH-209

WHERE ARE CURRENT INTERNSHIPS POSTED?
Current internships are regularly posted on the bulletin board outside the ENST office (H-420A).

A great resource for internship listings is the ENST website http://hss.fullerton.edu/envstud
Internships are also posted at the Center for Internships & Cooperative Education (LH-209).

WHO IS THE INTERNSHIP COORDINATOR?
- Steve Kim, Associate Coordinator ENST Program

IS JOB PLACEMENT INFORMATION AVAILABLE?
Check the bulletin board outside the ENST office (H-420A) for job listings, research opportunities, and conference notices. You should make every effort to network --- talk to other students, professors and professionals. Attending conferences is a great way to learn about job opportunities. Consider joining the Association for Environmental Professionals (student rate is available). A number of job openings bulletins are subscribed to by the ENST Program and may be examined in the ENST office (H-420A).

A great resource for job opportunities is the ENST website http://hss.fullerton.edu/envstud

HOW DO I REGISTER FOR ENST 596 INTERNSHIP CLASS?
Students must have instructor approval for the ENST 596 course and be permitted into the class by the Program prior to registration.

CAN I FIND MY OWN INTERNSHIP?
Absolutely, we encourage students to not only make contacts with professional in the field but internships often times lead to a more permanent position.
## Environmental Studies Program Contacts

<table>
<thead>
<tr>
<th>Phone Number</th>
<th>CSUF Location</th>
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</thead>
<tbody>
<tr>
<td>278-3528</td>
<td>H-211</td>
</tr>
<tr>
<td>278-4373</td>
<td>H-420A</td>
</tr>
</tbody>
</table>

### School of Humanities & Social Sciences
- **Coordinator:** Robert Voeks 278-3361 H-407
- **Assistant Coordinator:** Steven Kim 278-5646 H-411
- **Department Secretary:** 278-5775 H-420A
University Contacts

<table>
<thead>
<tr>
<th>California State University, Fullerton</th>
<th>Phone Number</th>
<th>CSUF Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>278-2011</td>
<td>800 State College</td>
</tr>
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Academic Appeals, Discrimination & Sexual Harassment Complaints

278-3836 LH-805

Students who have disputes are urged to resolve the issue informally with the instructor or the ENST Coordinator. If resolution is not possible, the Vice President for Student Affairs will work with the students to assist in resolving the dispute and provide information about CSUF policy.

Admissions & Records

278-2300 LH-114

The Office of Admission and Records administers admissions, registration, records and services to students enrolled through regular enrollment. Students are required to submit official transcripts of coursework taken at other academic institutions to this office.

Arboretum

278-3579 Northeast Campus

Bookstore

278-3418 Titan Student Union

California Desert Studies Consortium

278-2428 MH-387

Located in the East Mojave Desert near Baker, California, the Desert Studies Center provides living and lab facilities, which are available to students pursuing research in desert environments.

Career Planning & Placement Center

278-3121 LH-208

The Career Development Center offers a variety of personal, academic, and career programs, which can assist students, enrolled at CSUF. Programs range from a career resource library, part-time job listings, career decision making strategy tools, to an alumni career bank and videotaped mock interviews. Each semester a large number of graduating students obtain positions with business, industry, and government through the center’s on-campus recruitment program.

Child Care Center (Children’s Center)

278-2961 T-200

Computer Center

278-3921 MH-038

Students have access to central computing resources from an open-access lab located in the basement of Pollack Library North. E-mail accounts are provided for each student. Look on your registration materials packet; it lists your username and password. Accounts use on-campus is free; however a valid student ID is required upon entrance.

Disabled Student Services

278-3117 UH-101

All handicapped, disabled, or learning-disabled students are provided assistance by the Disabled Student Services. Their goal is to make CSUF and its programs available to students with disabilities and also serves as a centralized source of information and support for disabled students.

Emergency Messages

278-3221 LH-805
Extended Education 278-2611 T-14

Extended Education is a self-supporting, non-profit division of CSUF. Programs include summer sessions, Intersession, extension courses, certificate programs, and adjunct enrollment. Programs are open to degree and non-degree students. In order to count on a Study Plan, Extended Education courses must be accepted by an existing academic program and be taken for a LETTER grade. A maximum of nine (9) Extended Education units are allowed on graduate Study Plans.

Financial Aid 278-3125 UH-164

The Financial Aid Office provides financial assistance to eligible students through a variety of assistance programs. Since the determination of eligibility is a very complex and specific process, students who wish to inquire about financial aid should contact the office directly.

Graduate & International Programs 278-2618 MH-103

It is the responsibility of the Graduate & International Program office to ensure students timely compliance with all University and graduate program requirements. This office reviews Study Plans and if approved, students are advanced to classified standing. This office also audits your program to ensure all requirements are met for graduation and authorizes granting of degrees. Students may also be referred to this office for questions on policies or procedures which cannot be answered in the catalog or by talking with an advisor.

Health & Counseling Center 278-2800 Health Center

CSUF’s Health Center is equipped to care for a wide range of medical and personal problems. Staffed by doctors, nurses, psychologists, and a variety of other medical professionals, the Center provides medical care for illness and injury, family planning services, health education and immunization programs, and counseling for personal and psychological problems.

Institute for Economic & Environmental Studies 278-2509 LH-702

This Institute promotes interdisciplinary research, education and study, and dissemination of information concerning the environment. Particular emphasis is placed on examining environmental problems to provide information and analyses concerning policy alternatives. (See CSUF catalog for all Institutes)

International Education & Exchange Program 278-2787 UH-244

Library 278-2724 Library

CSUF’s Pollack Library houses well over 600,000 books, periodicals, and documents available in a variety of formats. The library has agreements to access the library collections of the other 18 California State University libraries, the University California Irvine and Riverside, as well as Fullerton College. New students are encouraged to take tours of the library to become better acquainted and more comfortable with its services.

Research & Instructional Safety Office 278-2687 MH-557

Southern California Ocean Studies Consortium 278-3614 MH-282

The Consortium participates in training scientists and educating the general public by sponsoring marine research and educational activities. The major facility is the R/V Yellow Fin and an 85-foot vessel which is used by classes and research programs in biology, geology, and ocean engineering.
**Tucker Wildlife Sanctuary**

Located in Modjeska Canyon in the Santa Ana Mountains, the Sanctuary provides internship opportunities, a research center for biological field studies, and a facility for teacher education in nature, interpretation and conservation education. Tucker Wildlife Sanctuary operates as a nonprofit CSUF Foundation.

**Women’s Center**

A primary goal of the Women’s Center is to assist women in achieving equitable educational and career opportunities, through a variety of workshops, programs, support and study groups. Although the center is designed to provide support, information, and resources for women, it is also open to men. It frequently sponsors programs which examine the changing role of men and male-female relationships in society.
<table>
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<th><strong>Form</strong></th>
<th><strong>Approximate Deadline</strong></th>
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<td>Application</td>
<td>At least one semester prior to your starting term</td>
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<tr>
<td>Change of Address</td>
<td>Any time your address, phone, etc. changes</td>
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<tr>
<td>Change of Name</td>
<td>Any time your name changes (i.e., marriage, divorce, etc.)</td>
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<tr>
<td>Course Add Sheet</td>
<td>Due to A&amp;R by approximately the fourth week of classes</td>
</tr>
<tr>
<td>Course Drop Sheet</td>
<td>Due to A&amp;R by approximately the fourth week of classes</td>
</tr>
<tr>
<td>Graduate Recommendation Sheet</td>
<td>Prior to your first semester</td>
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<tr>
<td>Late Course Add Sheet</td>
<td>Due to A&amp;R before the census date</td>
</tr>
<tr>
<td>Late Course Withdrawal Sheet</td>
<td>Due to A&amp;R before the census date</td>
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</table>
The following forms may be needed or required during your ENST program. Be aware of them and make sure the necessary forms are completed and submitted promptly to the correct person/office. The abbreviations are as follows:

1. Admissions & Records
2. Associate Dean
3. Coordinator
4. Course Instructor
5. Course Schedule
6. Environmental Studies Office (Stamp)
7. Graduate Studies Office
8. On-line
9. Student File

<table>
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<th>What</th>
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<th>Final Destination</th>
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<td>1 or 5</td>
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<td>4, 3, 6, &amp; 2</td>
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</table>
CHANGE OF PROGRAM
(ADDS, AUDITS, & OPTION CHANGES)

NAME
LAST
FIRST
M.I.
STUDENT'S SIGNATURE
LOCAL PHONE

STUDENT IDENTIFICATION NUMBER

YOUR VALIDATED FEE RECEIPT MUST BE PRESENTED WHEN MAKING ANY CHANGES IN YOUR STUDY PROGRAM.
THIS FORM MUST BE COMPLETED IN INK.

TODAY'S DATE
MONTH	DAY	YEAR

ADDS

<table>
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AUDITS & OPTION CHANGES

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</table>
CHANGE OF PROGRAM (DROPS)

NAME
LAST   FIRST   M.I.   STUDENT'S SIGNATURE   LOCAL PHONE

STUDENT IDENTIFICATION NUMBER

THIS FORM MUST BE COMPLETED IN INK.
PLEASE DO NOT USE WHITE OUT.

TODAY'S DATE
MONTH   DAY   YEAR

IMPORTANT! DROPS PROCESSED AFTER THE SECOND WEEK OF INSTRUCTION ARE
RECORDED AS WITHDRAWALS WITH GRADES OF "W".

<table>
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<th>PROFESSOR SIGNATURE</th>
<th>DEPARTMENT STAMP</th>
<th>DEPT. CHAIR APPROVAL</th>
</tr>
</thead>
</table>

TO BE ELIGIBLE FOR A REFUND, CLASS(ES) MUST BE DROPPED BY REFUND DEADLINE DATE.
You are admitted and have met all published standards.

You are admitted, but have these deficiencies that must be met.

You are NOT admitted, but can take post-bacc courses.

You are NOT admitted.

You are NOT admitted.

These are your deficiencies that must be made up by the time listed or you are disqualified from the Program.

Need to successfully complete stat course during first year in program.

Robert Chin
Department Chair or Graduate Adviser
Date: 7/9/01
PETITION FOR LATE ADDITION OF CLASSES

This petition must be completed and returned with your signed Add form to the Registration Services area of the Admissions and Records Service Center (Langsdorf Hall 114) after it is signed by the instructor, department chair and Associate Dean (or designee). Once the Registration Services area is closed, return forms to the Admissions and Records Service Center (also in LH-114).

Please Print in Ink

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<th>Last</th>
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<th>M/L</th>
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<th>Zip Code</th>
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<th>Major</th>
<th>Type of Financial Aid (if applicable)</th>
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<tr>
<th>Student’s signature</th>
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</table>

A

Date

Type of Request

☐ Late Registration  ☐ Late Add

Type of Course

☐ Mini-Course  ☐ Independent Study

☐ Incarnation  ☐ Other

1. Have you attended this course since the release of the class information?
☐ Yes  ☐ No

☐ If yes, skip to No. 3.

2. How many class sessions have you attended?

3. Explain in detail the reasons for failure to enroll prior to the deadline:

(continue on reverse side if necessary)

B

RECOMMENDATIONS

The loss of FTEs to the university by late adds after the census date reduces both financial and instructional resources to the university. The late add policy is intended to minimize this effect (refer to UPS 300.013). Post-census changes which result in a net increase in the number of units enrolled on the student’s Study List & Fee Program should NOT be approved. The denial by any one of the three individuals required to sign below constitutes a denial of the request. The actions of these individuals, regardless of the nature of their action, are NOT subject to petition.

Recommend  ☐ approval  ☐ denial

Signature of Instructor  Date

Recommend  ☐ approval  ☐ denial

Signature of Department Chair  Date

Recommend  ☐ approval  ☐ denial

Signature of Associate Dean  Date

C

REQUIRED FEE

PAYMENT BY CASH, CASHIER’S CHECK, OR MONEY ORDER ONLY

☐ $25 late registration fee, plus basic fees/tuition
☐ $20 late add change fee  ☐ Increase in basic fees/tuition

You must return to pick up a revised Study List & Fee Statement at the Admissions and Records Service Center in Langsdorf Hall. Please pay the required fee to complete the transaction. Please bring this form with you.

Failure to pay the required fee by the date indicated will result in your being disenrolled from this class.
REQUEST FOR WITHDRAWAL

This form must be completed and returned with your signed Drop Form to the Registration Service area (Langsdorf Hall 114). After it is signed by the instructor, the department chair, and if necessary, the Associate Dean. Once the Registration Services area is closed, return forms to the Admissions and Records Services Center (also in LH-114).

Please Print in Ink

<table>
<thead>
<tr>
<th>Last</th>
<th>First</th>
<th>M.I.</th>
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</table>

<table>
<thead>
<tr>
<th>Student Identification Number</th>
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<table>
<thead>
<tr>
<th>Telephone Number(s)</th>
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<table>
<thead>
<tr>
<th>Degree Objective</th>
<th>Major</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Expected Date of Graduation</th>
</tr>
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<table>
<thead>
<tr>
<th>Signature</th>
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</table>

A

<table>
<thead>
<tr>
<th>Date</th>
</tr>
</thead>
</table>

**Type of Course**
- Lecture or Lecture/Lab.
- Laboratory
- Activity
- Mini-Course
- Internship
- Independent Study
- Other

1. Are you withdrawing from all classes? □ Yes □ No
2. Have you attended this course continuously since the first day? □ Yes □ No
3. How many class sessions have you attended? _______
4. When did you last attend this course? _______
5. Explain in detail below the serious reasons requiring withdrawal from this class. Please attach required documentation. Unacceptable excuses are academic and work performance are not considered serious reasons.

(continue on reverse side if necessary)

B

**RECOMMENDATIONS**

□ approval  □ denial

<table>
<thead>
<tr>
<th>Signature of Instructor</th>
</tr>
</thead>
</table>

Please check the appropriate box:
- Estimated grade at the time of withdrawal = _______
- No basis for evaluation (no exams or graded assignments)

□ approval  □ denial

<table>
<thead>
<tr>
<th>Signature of Department Chair</th>
</tr>
</thead>
</table>

**CBE AND CECGS COURSES**

□ approval  □ denial

<table>
<thead>
<tr>
<th>Signature of Associate Dean or Designee</th>
</tr>
</thead>
</table>

Rev. 8/00

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Current Students
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### Current Students

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Frequently Asked Questions

WHAT DO I NEED TO KNOW ABOUT A STUDY PLAN?
Students normally develop a Study Plan as part of the ENST 500 class during the first or second semester of their program. An advisor should be identified early, coursework agreed on, and a timetable presented for completion. Should you not have a Project or Thesis advisor when you submit your Study Plan write in “To be Arranged” under Committee Members. Study Plans are submitted to the Graduate Studies Office for final approval. Changes to approved Study Plans are made by completing a “Request for Change in Study Plan” form. This form must be approved by the ENST Coordinator or Assistant Coordinator.

Preliminary Study Plan Checklist:

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed your B.S. or B.A.?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Are you currently in Program?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Are fewer than 12 units of electives from your undergraduate major included?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Can any of your units transfer through Extended Ed or adjunct enrollment taken prior to admission and with approval of the Coordinator count? (limit of 9 units)</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Are the ENST Program prerequisites met?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Have you selected an area of concentration?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Are any 300 level courses listed on the plan?**</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Are 21+ units in residence at CSUF?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Have fewer than 6 units in been in ENST 599?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Have you decided on a Project or Thesis?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Do you have an advisor?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Have all the ENST requirements been met?</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td>Do your units total 36?</td>
<td>☑️</td>
<td></td>
</tr>
</tbody>
</table>

HOW DO I SELECT A FACULTY ADVISOR?
Students need to have their Study Plan approved by an ENST Council member (called a faculty advisor) prior to submitting the Study Plan to the ENST Program. To determine who can sign your Study Plan, see the ENST Council pages; find someone with background in the concentration you are selecting. For example, if you are doing an Environmental Science concentration you will most likely take courses in the following departments: Anthropology, Biology, Chemistry, Geology and Health Science, etc. Therefore your faculty advisor should come from one of these departments.

Note: Just because the ENST Council member signs your Study Plan does not mean that they have agreed to be your Project or Thesis Advisor. They are simply signing the form to say ‘yes, these courses look appropriate for this type of concentration.’

DO I NEED TO TYPE MY STUDY PLAN OR CAN I HAND WRITE IT?
All Study Plans must be typed, for an emailed version please contact the Assistant Coordinator or Secretary.

DO I GET A COPY OF MY STUDY PLAN?
Yes, Graduate Studies should send you a copy of the Study Plan through the mail once it is approved.

Note: Should you not receive a copy of your Study Plan after classification, request a copy from the ENST Program Secretary.
The following preclassification requirements have been met:
1. BA  BS  Other  from  Month/Year
   Undergraduate
2. Minimum GPA of 3.0 last 60 units OR
   GPA deficit at admission satisfied
3. One undergraduate course each in Ecology and Quantitative Methods OR equivalent.
4. Three letters of recommendation
5. Writing Requirement will be met by ENVST 500

ALL STATE AND UNIVERSITY REQUIREMENTS ARE TO BE MET INCLUDING FIVE-YEAR LIMIT

<table>
<thead>
<tr>
<th>Study Plan Requirements*</th>
<th>Units</th>
<th>Grade</th>
<th>Sem/Yr</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIRONMENTAL STUDIES CORE (9 units):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVST 500 Environmental Issues and Approaches</td>
<td>3</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ENVST 510 Environmental Evaluation and Protection</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVST 520 Environmental Research &amp; Analysis</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVIRONMENTAL STUDIES ELECTIVES (9-15 units)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CROSS-DISCIPLINARY ELECTIVES (0-6 units outside Environmental Studies)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESEARCH OPTION (3 units)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVST 598 Thesis or ENVST 597 Project</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL UNITS REQUIRED</td>
<td>36</td>
<td></td>
<td></td>
<td>(Minimum one-half 500-level)</td>
</tr>
</tbody>
</table>

*Must include one planning course (indicated by asterisk). Electives require adviser approval.

Committee Members:
Faculty Adviser: Date:
Department: Date:
Reviewed in: Date:
CLASSIFIED GRADUATE STANDING GRANTED: Date:

Associate Vice President, Academic

PC 3/02 Rec'd Graduate Studies Office:: Copies Sent:
WHEN DO I ENROLL IN THE CORE COURSES?
The ENST Program has set the course schedule so students enroll in one CORE course per semester and the final semester would include the required planning course. Schedules are:

- ENST 500 Environmental Issues & Approaches  Fall
- ENST 510 Environmental Evaluation & Protection  Spring
- ENST 520 Environmental Research & Analysis  Fall
- ENST 595T Environmental Planning  Spring

WHAT CSUF COURSES SATISFY THE PLANNING REQUIREMENT?
Regardless of your concentration all ENST students are required to complete one (1) planning course. The ENST Program offers ENST 595T Environmental Planning every spring semester. Students are allowed to take courses from other departments to meet this requirement. Acceptable courses that meet the planning requirement from CSUF include:

**PLANNING**
- ENST 595T  Environmental Planning
- GEOG/POSC 478  Urban Planning Principles
- GEOG 482  Environmental Impact Assessment
- GEOG/POSC 484  Urban Planning Methods
- GEOG 488  Land Use Analysis

WHAT IF I DON’T MEET THE PRE-REQUISITES FOR A CLASS?
Graduate students sometimes don’t meet the pre-requisites listed for a particular course. Should this occur for a course you are interested in, speak with the course instructor to determine if consent of the instructor is allowed in lieu of the pre-requisites. Professors expect these students to take the initiative to learn the required pre-requisite material on their own.

Note: In specific instances, some professors may not allow you take their course due to lack of pre-requisites or basic knowledge of the subject area.

WHAT ARE THE REQUIREMENTS FOR INDEPENDENT STUDY (ENST 599)?
ENST 599 requires independent work of a research or creative nature that ends in a paper, practical application, comprehensive exam, or performance. Units are not granted for teaching duties, administering classes, tutoring students or internships. Students must prepare a brief proposal in consultation with and including approval and the signature of the instructor before enrolling in ENST 599. Coursework may not be used as the sole basis for independent study.

Note: For students lacking in the Cross-Disciplinary Electives (CDE), you may opt to take another departments research elective to meet the minimum nine (9) unit CDE requirement. For example, should you need addition CDE units, consider taking the research option from the instructor’s home department, such as BIOL 599, GEOL 599, GEOG 599, HESC 599, or POSC 599. The appropriate forms must be completed and submitted to the instructor’s home department NOT the ENST Program.

WHAT ABOUT TRANSFERRING COURSES FROM OTHER SCHOOLS?
If approved by the Coordinator, ENST graduate students may transfer up to fifteen (15) units of coursework from other universities to their Study Plans.
Note: Units earned through CSUF’s Extended Education has a limit of nine (9) transferable units to a CSUF graduate program. See the “Graduate Regulations” section of the CSUF catalog for transfer requirements.

**HOW DO I KNOW IF THE COURSES ARE TRANSFERABLE?**

If you have already taken the course, provide a copy of your transcripts, the course description from the University’s Catalog and speak with the Coordinator. Your coursework is NOT transferable if the course taken meets any of the following criteria:

1. the courses have been used to complete:
   a. general education requirements,
   b. bachelor’s degree requirements,
   c. graduate degree requirements,
2. they are not within your five (5) year limit,
3. they are not graduate level or upper division, or
4. you earned below a “C.”

If you have not taken the course, provide a copy of the course description to the Coordinator and ask for approval. Be sure you (1) make the appropriate changes on your Study Plan and (2) request two sets of transcripts be mailed to the University Admissions and Records and ENST Program to have them apply on your Study Plan.

**WHEN DO THE COURSES TRANSFER TO THE ENST DEGREE?**

Classified students, those who have successfully filed a Study Plan, must submit transcripts to both the University’s Admissions and Records and the ENST Program. The units will transfer to this degree when your Graduation Check is processed, usually during your last semester.

For students not yet classified, the courses can be transferred over to this program if they are listed on the Study Plan, signed by the Coordinator, and then submitted to Graduate Studies.

**WHAT IS CSUF’S CONTINUOUS ENROLLMENT POLICY?**

CSUF policy requires graduate students to be continuously enrolled until award of the degree (see CSUF Catalog for a complete statement of policy). Conditionally classified or classified graduate students qualify for a Leave of Absence for up to one (1) year, if they are in good academic standing and have completed at least six (6) units applicable to the ENST degree.

Breaks in enrollment without an approved leave automatically declassify and remove the student from the Program! If you don’t plan to attend during a semester and you aren’t eligible for a Leave of Absence, you MUST register in Graduate Studies 700, but only if you have finished all of your coursework.

**WHAT IF I FORGET TO APPLY FOR A LEAVE OF ABSENCE?**

Students wishing to remain in the ENST Program must file for a Leave of Absence prior to the start of the semester you won’t be enrolled. Should you forget to file a request, please file a “retro” Leave of Absence immediately (this means file a Leave of Absence and write “retro” on the top). Students who
do not maintain continuous enrollment or do not request an authorized leave will be disqualified from the Program and must (1) reapply in order to continue their studies and (2) re-file a Study Plan.
In total, a minimum of thirty-six (36) units is required by each student. This list is a current inventory of classes applicable to the ENST and Cross Disciplinary Electives requirement. They are merely suggestions. This inventory fluctuates, as courses are added or deleted each semester and/or year. Should a course become available you wish to take, speak with the Coordinator regarding its appropriateness. ENST course schedules are abbreviated as follows: (F) Fall, (S) Spring, (Su) Summer and (I) Infrequent. Due to scheduling differences and availability of professors courses/schedules may change.

**ENST Required Core Courses (9 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 500</td>
<td>Environmental Issues &amp; Approaches</td>
<td>(F)</td>
</tr>
<tr>
<td>ENST 510</td>
<td>Environmental Evaluation &amp; Protection</td>
<td>(S)</td>
</tr>
<tr>
<td>ENST 520</td>
<td>Environmental Research &amp; Analysis</td>
<td>(F)</td>
</tr>
</tbody>
</table>

**Planning Courses (3 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 595T</td>
<td>Environmental Planning</td>
<td>(S)</td>
</tr>
<tr>
<td>GEOG 478</td>
<td>Urban Planning Principles (POSC 478)</td>
<td>(F)</td>
</tr>
<tr>
<td>GEOG 482</td>
<td>Environmental Impact Assessment</td>
<td>(S)</td>
</tr>
<tr>
<td>GEOG 484</td>
<td>Urban Planning Methods (POSC 484)</td>
<td>(F)</td>
</tr>
<tr>
<td>GEOG 488</td>
<td>Land Use Analysis</td>
<td>(S)</td>
</tr>
</tbody>
</table>

**ENST Electives (9 – 15 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 595T</td>
<td>Topics in Environmental Problems:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Air Quality Management</td>
<td>(F)</td>
</tr>
<tr>
<td></td>
<td>Environmental Activism &amp; Organization</td>
<td>(S)</td>
</tr>
<tr>
<td></td>
<td>Environmental Change</td>
<td>(S)</td>
</tr>
<tr>
<td></td>
<td>Environmental Dispute Resolution</td>
<td>(F)</td>
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<tr>
<td></td>
<td>Environmental Economics &amp; Policy</td>
<td>(I)</td>
</tr>
<tr>
<td></td>
<td>Environmental Ethics</td>
<td>(S)</td>
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<tr>
<td></td>
<td>Environmental Hydrology</td>
<td>(I)</td>
</tr>
<tr>
<td></td>
<td>Environmental Law</td>
<td>(Su)</td>
</tr>
<tr>
<td></td>
<td>Environmental Politics &amp; Policy</td>
<td>(I)</td>
</tr>
<tr>
<td></td>
<td>Environmental Regulation</td>
<td>(S)</td>
</tr>
<tr>
<td></td>
<td>Endangered Habitats</td>
<td>(S)</td>
</tr>
<tr>
<td></td>
<td>Endangered Primates</td>
<td>(I)</td>
</tr>
<tr>
<td></td>
<td>Global Environmental Issues</td>
<td>(F)</td>
</tr>
<tr>
<td></td>
<td>Hazardous Waste Management</td>
<td>(I)</td>
</tr>
<tr>
<td></td>
<td>Solid Waste Management</td>
<td>(F)</td>
</tr>
<tr>
<td></td>
<td>Wetlands Seminar</td>
<td>(F)</td>
</tr>
<tr>
<td>ENST 596</td>
<td>Internship</td>
<td>(F/S)</td>
</tr>
<tr>
<td>ENST 599</td>
<td>Independent Research (1-3 units)</td>
<td>(F/S/Su)</td>
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**ENST Project/Thesis (3 units)**

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<tr>
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<th>Title</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 597</td>
<td>Project</td>
<td>(F/S)</td>
</tr>
<tr>
<td>ENST 598</td>
<td>Thesis</td>
<td>(F/S)</td>
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</table>

**Cross Disciplinary Electives (9 – 15 units)**

**AMERICAN STUDIES (AMST)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>401</td>
<td>American Culture &amp; Nature</td>
</tr>
<tr>
<td>416</td>
<td>Southern California Culture</td>
</tr>
<tr>
<td>423</td>
<td>Search For Community</td>
</tr>
<tr>
<td>444</td>
<td>Built Environment</td>
</tr>
<tr>
<td>449</td>
<td>American West: Symbol &amp; Myth</td>
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**ANTHROPOLOGY (ANTH)**

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<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>402</td>
<td>Museum Science</td>
</tr>
<tr>
<td>403</td>
<td>Archaeological Field Work</td>
</tr>
<tr>
<td>409</td>
<td>Applied Anthropology</td>
</tr>
<tr>
<td>441</td>
<td>Human Variation</td>
</tr>
<tr>
<td>440</td>
<td>Medical Anthropology</td>
</tr>
<tr>
<td>443</td>
<td>Advanced Human Evolution</td>
</tr>
<tr>
<td>460</td>
<td>Public Archaeology in California</td>
</tr>
<tr>
<td>504T</td>
<td>Selected Topics in Anthropology</td>
</tr>
</tbody>
</table>

**ART (ART)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>420</td>
<td>History of Modern Architecture</td>
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**BIOLOGICAL SCIENCES (BIOL)**

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<tbody>
<tr>
<td>401</td>
<td>Biogeography</td>
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<tr>
<td>406</td>
<td>Biometry</td>
</tr>
<tr>
<td>419</td>
<td>Marine Ecology</td>
</tr>
<tr>
<td>434</td>
<td>Industry Microbiology</td>
</tr>
<tr>
<td>438</td>
<td>Public Health Microbiology</td>
</tr>
<tr>
<td>441</td>
<td>Plant Taxonomy</td>
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<tr>
<td>442</td>
<td>Pollination Biology</td>
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<tr>
<td>443</td>
<td>Plant Ecology</td>
</tr>
<tr>
<td>444</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>446</td>
<td>Marine Phycology</td>
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<tr>
<td>450</td>
<td>Conservation Biology</td>
</tr>
<tr>
<td>474</td>
<td>Natural History Vertebrates</td>
</tr>
<tr>
<td>478</td>
<td>Mammalogy</td>
</tr>
<tr>
<td>517</td>
<td>Seminars: Ecology</td>
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<td></td>
<td>Vernal Pools Ecology</td>
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**GS-700 (0 units required)**

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>GRAD 700</td>
<td>Continuous Enrollment through Ext. Ed</td>
</tr>
<tr>
<td>GRAD 700</td>
<td>Continuous Enrollment at CSUF</td>
</tr>
<tr>
<td>CHEMISTRY &amp; BIOCHEMISTRY (CHEM)</td>
<td>ENGLISH (ENGL)</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>411A Optical Spectroscopy</td>
<td>429 American Landscape in Literature</td>
</tr>
<tr>
<td>411C Separations</td>
<td></td>
</tr>
<tr>
<td>411E Radiochemistry</td>
<td></td>
</tr>
<tr>
<td>411G Mass Spectrometry</td>
<td></td>
</tr>
<tr>
<td>435 Chemistry of Hazardous Materials</td>
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<tr>
<td>436 Atmospheric Chemistry</td>
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<tr>
<td>437 Environmental Water Chemistry</td>
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<tr>
<td>438 Environmental Biochemistry</td>
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<table>
<thead>
<tr>
<th>COMMUNICATIONS (COMM)</th>
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</thead>
<tbody>
<tr>
<td>428 Communications</td>
</tr>
<tr>
<td>464 Public Relations Management</td>
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<table>
<thead>
<tr>
<th>ECONOMICS (ECON)</th>
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<tbody>
<tr>
<td>411 International Trade</td>
</tr>
<tr>
<td>461 Ecological Economics</td>
</tr>
<tr>
<td>462 Natural Resources Economics</td>
</tr>
<tr>
<td>516 Economic Benefit-Cost Analysis</td>
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<table>
<thead>
<tr>
<th>EDUCATIONAL LEADERSHIP (EDAD)</th>
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<tbody>
<tr>
<td>503 Organizational Leadership</td>
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<thead>
<tr>
<th>ELEMENTARY &amp; BILINGUAL EDUCATION (EDEL)</th>
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HISTORY (HIST)
408 History of California
478 History of Orange County
479 The Urbanization of American Life
492 Communication History
493 Oral History
494 Oral History Edit/Indexing

LIBERAL STUDIES (LIB)
488 Senior Seminar in Environmental Studies

MATHEMATICS (MATH)
414 Topology
435 Mathematical Statistics
438 Introduction to Stochastic Processes
440 Advanced Numerical Analysis
470 Advanced Mathematical Model Building
501A Numerical Analysis and Computation I
501B Numerical Analysis and Computation II
503A Mathematical Modeling I
503B Mathematical Modeling II
504A Simulation Modeling and Analysis
504B Applications of Simulation Modeling Techniques

PHYSICS (PHYS)
481 Experimental Physics

POLITICAL SCIENCE (POSC)
403 Politics & Policy in Sacramento
414 Legislature & Politics
427 Policy Making: Urban Metropolitan Issues
446 Corruption/Ethics/Public Policy

POLITICAL SCIENCE (POSC) cont’d…
457 Politics of International Economics
461 UN/Public International Organization
475 Administrative Law
478 Urban Planning Principles (GEOG 478)
484 Urban Planning Methods (GEOG 484)
485 Women in Politics
490 Civic Engagement & Effective Citizenship
509 Administrative Organization & Process
519 State & Local Government
523 Administrative Research & Analysis
525 Seminar: Metropolitan Area Government
528 Administration & Policy
540 Seminar: Readings in Political Philosophy
580 Emergency Management in Public Administration

SCIENCE EDUCATION (SCED)
410 Physical Science Concepts
412 Processes of Science
453 Life Science Concepts
495 Naturalist Internship
550 Theoretical Designs in Science Education
554 Issues in Science Education

SECONDARY TEACHER EDUCATION PROGRAM (EDSC)
440M Multicultural Education in Public Schools
522 Family, Community & Professional Partnerships
536 Curriculum Theory & Development
**ENST REQUIRED CORE COURSES (9 UNITS)**

Prerequisites: graduate standing in Environmental Studies or consent of instructor.

**ENST 500: Environmental Issues and Approaches (3)**
Introduction to the University and ENST Program also how to be a successful graduate student. Exposes students to a variety of experiences they will encounter as a graduate student. Students prepare seminars and papers on research design for potential thesis topics. Meets graduate writing requirement.

**ENST 510: Environmental Evaluation and Protection (3)**
Environmental parameters (water, air, solid wastes, noise, radiation, etc.). Techniques in monitoring and measurement; effect on human health; environmental quality standards and controls. Demonstrations and field trips.

**ENST 520: Environmental Research and Analysis (3)**
Research methods and statistics used in the field of environmental studies. Research tools used in such areas as environmental field studies, environmental experiments, social environmental impacts, environmental attitudes and behavior, and environmental trend analysis. Use of secondary data sources and computer required.

**ENST 595T ELECTIVES (9 – 15 UNITS)**

Prerequisites: graduate standing in Environmental Studies or consent of instructor.

Various environmental topics (T), contemporary or historic, that focus on problems (e.g., law, endangered habitats, planning, global environmental issues, etc.). Topic chosen and outline will be circulated prior to registration. May be repeated up to five (5) times (with different topics) for credit.

**Air Quality Management (3):**
A detailed study of: stationary/mobile sources of pollution, technical/engineering aspects of air quality management, control technologies and pollution prevention and regulations at local, state and federal levels will be presented in a lecture/seminar setting.

**Environmental Activism & Organization (3):**
Survey and comparison of environmental organizations. Organizational and management problems, including: top-down versus bottom-up structures, membership, training programs, information systems, objectives, activist strategies, funding sources, budgets and financial statements.

**Environmental Change (3):**
Course description not available at time of print.

**Environmental Dispute Resolution (3):**
Principles and practices of Alternative Dispute Resolution (ADR) in the environmental policy arena. Students will learn the concepts and concerns of ADR and be able to apply them to actual cases and practices.

**Environmental Economics & Policy (3):**
Course description not available at time of print.

**Environmental Ethics (3):**
Course description not available at time of print.

**Environmental Hydrology (3):**
Course description not available at time of print.

**Environmental Law (3):**
Course description not available at time of print.

**Environmental Planning (3):**
An examination of problems and techniques involved in environmental planning, including CEQA, environmental impact statements, zoning, general plans and other planning strategies.

**Environmental Politics & Policy (3):**
Course description not available at time of print.

**Environmental Regulation (3):**
An examination of state and national environmental regulations and impacts.

**Endangered Habitats (3):**
An analysis of endangered habitats in Southern California including: description and location of habitats, reasons for endangerment, legal issues and efficacy of restoration and re-vegetation projects. Two field trips (TBA) to various habitats will be required.

**Endangered Primates (3):**
**Global Environmental Issues (3):**
This course explores the major global environmental issues facing humanity. Included are such topics as: population, waste management, water, air and soil quality, agricultural challenges, deforestation, biodiversity, energy, climate change and the potential for sustainability.

**Hazardous Waste Management (3):**
Course description not available at time of print.

**Solid Waste Management (3):**
Environmental aspects of solid waste issues and life-cycle analysis. Topics include laws, regulations, policies, waste generation, source reduction, recycling, incineration, composting and landfills.

**Wetlands Seminar (3):**
This course will examine wetlands from a variety of perspectives including biological, regulatory, and political. The physical environment (vegetation, soils and hydrology) will be discussed in depth, particularly as related to wetland definitions. Wetland regulations will also be examined.

**ENST 596 Internship (3):**
Prerequisite: graduate standing in Environmental Studies or consent of instructor. Field experience with a governmental or private agency. Seminars and professional experience.

**ENST 599 Independent Graduate Research (1-3):**
Prerequisite: classified status in Environmental Studies and consent of instructor and Program Coordinator. May be repeated for credit up to six (6) units.

**ENST PROJECT/THESIS (3 UNITS)**

**ENST 597 Project (3):**
Prerequisite: classified status in Environmental Studies program and consent of instructor and Program Coordinator. Planning, preparation and completion of an acceptable, interdisciplinary Project. Credit on submission of project.

**ENST 598 Thesis (3):**
Prerequisite: classified status in Environmental Studies program and consent of instructor and Program Coordinator. Planning, preparation and completion of an acceptable, interdisciplinary Thesis. Credit on submission of Thesis.

**CROSS DISCIPLINARY ELECTIVES (9 – 15 UNITS)**

**AMERICAN STUDIES (AMST)**

**AMST 401T American Culture & Nature (3):**
Prerequisite: AMST 201 and 301; or consent of instructor. The relationship between theory and application. Analytic readings and research. Check class schedule for topics being considered. May be repeated for credit.

**AMST 416 Southern California Culture (3):**
Regionalism as a concept and as a fact of American life. Theories of regionalism measured against a study of Southern California and one other distinct American region.

**AMST 423 Search for Community (3):**
Prerequisite: upper-division standing. Examining the historical transformation and modern reformulation of community in America, the course emphasizes the relationship of the individual to the larger social group. Topics include: freedom, need to belong, alienation, and search for identity.

**AMST 444 The Built Environment (3):**
Prerequisite: upper-division standing or consent of instructor. Examines how Americans have shaped and structured space from the 17th century to the present. Emphasizes the relationship between space, place, architecture, and material culture; the interpretation of cultural landscapes and architectural styles; the changing meanings of the American home.

**AMST 449 American West: Symbol & Myth (3):**
Prerequisite: American Studies 201 or completion of general education section on American History, Institutions, and Values. The meaning of the West to the American culture through analysis of cultural documents such as explorer and captivity narratives, fiction, art, and film. Topics include: perception of wilderness, indians, frontiersmen, and role of the West in creating a sexist national mythology.

**ANTHROPOLOGY (ANTH)**

**ANTH 402 Museum Science (3):**
Methods, principles and techniques used in natural history, and small scientific and historical museums. Subjects covered include scope of exhibit and research collections, care and repair of specimens, acquisitions, storage and preparation of presentations in anthropological, historical, biological and paleontological museums.

**ANTH 403 Archaeological Fieldwork (3):**
Prerequisite: ANTH 102 or 103 and consent of instructor. Excavation of a local archaeological site. Archaeological mapping, photography and recording. Laboratory methods of cataloging, preservation, description and interpretation of archaeological materials. Saturday field sessions. May be
repeated once for credit as an elective. (1 hour lecture, 6 hours laboratory)

**ANTH 409 Applied Anthropology (3):**
Prerequisite: ANTH 102 or consent of instructor. The uses of anthropological skills and sensitivities in approaching contemporary human problems. Cultural change, organizational development, program planning and evaluation, the consultant’s role, and professional ethics.

**ANTH 441 Human Variation (3):**
Prerequisite: ANTH 101. The processes underlying and the theories for the existence of the present variation between and within the human populations. The genetics of human populations and the significance of racial classifications. (2 hours, 3 hours laboratory)

**ANTH 442 Medical Anthropology (3):**
Prerequisite: ANTH 101 or 102 or PSYCH 101. Human health and disease and their relationship to cultural practices, beliefs and environmental factors; histories of various diseases as factors of cultural change; health care delivery systems.

**ANTH 443 Advanced Human Evolution (3):**
Prerequisite: ANTH 314 or 334 or consent of instructor. The application of biocultural perspective to develop an understanding of the human life course. Students will gain a better understanding of cultural diversity, health, and the form and structure of families, households and societies.

**ANTH 460 Public Archaeology in California (3):**
An archaeological survey of California, emphasizing the examination of recent scientific excavations. Analysis of new archaeological methods, current research specializations, responsibilities of the modern archaeologist, and review of legislation affecting archaeology.

**ANTH 504T Selected Topics (3):**
Prerequisite: completion of undergraduate major in Anthropology and/or graduate standing or consent of instructor. The topic chosen and a general outline of the seminar is circulated prior to registration.

**ART (ART)**

**ART 420 History of Modern Architecture (3):**
Prerequisite: ART 201B (art majors) or ART 101 (non-art majors). Development of modern architecture. The interrelationship among architecture, technology and society, from the industrial and political revolutions of the 18th century to the present. Exploration of national differences and various approaches to city planning. (3 hours lecture)

**BIOLOGICAL SCIENCES (BIOL)**

**BIOL 401 Biogeography (3):**
Prerequisite: Biology 316 or equivalent. Evolutionary patterns and mechanisms of distribution of plants and animals in the major habitats of the world. Current concepts and theories. (3 hours lecture)

**BIOL 406 Biometry (4):**
Prerequisites: Mathematics 337 or equivalent; upper-division standing in biological sciences. Experimental design, interpretation, and application of statistics to biological problems. (3 hours lecture, 3 hours laboratory)

**BIOL 419 Marine Ecology (3):**
Prerequisite: BIOL 316 or equivalent. Ecology of planktonic, nektonic and benthic organisms; their communities and environments.

**BIOL 434 Industrial Microbiology and Applied Biotechnology (3):**
Prerequisite: BIOL 302, 312, and 315. Current and developing applications of microbiology within the industry. Culture enhancement technology, contamination control methodology and government regulations in the production of pharmaceuticals, medical devices, energy, and in agricultural and environmental control. (2 hours lecture, 6 hours laboratory)

**BIOL 438 Public Health Microbiology (4):**
Prerequisite: BIOL 302. The control and epidemiology of infectious diseases of public health importance, water and sewage microbiology. Control of current problems. (2 hours lecture, 6 hours laboratory)

**BIOL 441 Plant Taxonomy (4):**
Prerequisites: BIOL 241 and 261. Classification and evolution of vascular plants; emphasis on the flowering plants. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

**BIOL 442 Pollination Biology (3):**
Prerequisite: BIOL 316 or equivalent. Pollination in the plant kingdom. Floral cues, pollination syndromes, pollinator behavior, chemical and physical characteristics of pollination, energetics, gene flow, phenology, and ecological aspects of pollination. (2 hours lecture, 3 hours laboratory or fieldwork)

**BIOL 443 Plant Ecology (4):**
Prerequisite: BIOL 316 or equivalent. Community and population ecology of terrestrial plants. Environmental factors and plant distribution with emphasis on California vegetation. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

**BIOL 444 Plant Physiology (4):**
Prerequisites: BIOL 241 and 261 and one semester of organic chemistry. Fundamental mechanisms of plant physiology with primary emphasis on whole plant physiology and physiological ecology. (2 hours lecture, 6 hours laboratory; weekend field trips may be required)

**BIOL 446 Marine Phycology (4):**
Prerequisites: BIOL 241 and 261. Biological aspects of marine algae; comparative development, morphology,
taxonomy, physiology, and ecology. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

BIOL 450 Conservation Biology (3):
Prerequisite: BIOL 316 or equivalent or consent of instructor. Current topics involving theory, concepts and techniques in the conservation of biological diversity.

BIOL 474 Natural History of the Vertebrates (4):
Prerequisites: BIOL 241 and 261. Natural history of the vertebrates. Observation, identification, behavior, ecology and distribution of the vertebrates. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

BIOL 478 Mammalogy (4)
Prerequisites: BIOL 241, 261 and 316 or equivalent. The systematics, evolution, morphology, physiology, ecology and behavior of mammals. (2 hours lecture, 6 hours laboratory or fieldwork, plus two weekend field trips)

BIOL 517T Selected Topics* (3):
Prerequisite: graduate standing required. Selected advanced topics. May be repeated for credit.

*Ecology topic only. Course description not available at time of print.

*Vernal Pools topic only. Course description not available at time of print.

CHEMISTRY & BIOCHEMISTRY (CHEM)

CHEM 411A, C, E, G Instrumental Analysis (1):
Prerequisites: Chemistry 315 and 316. Corequisite for 411A: Chemistry 316B or 371B or consent of instructor. Students wishing an ACS certified degree must take three units. (1 hour lecture, 3 hours laboratory for 5 weeks)

CHEM 411A Optical Spectroscopy: UV/visible, infrared, atomic absorption, flame emission). Instructional fee required (refundable).


CHEM 411E Radiochemistry: Course description not available at time of print.

CHEM 411G Mass Spectrometry: Conventional magnetic sector, quadrupole, Fourier transform, tandem, and time-of-flight; hyphenated techniques including gas chromatography (GC-MS), liquid chromatography (LC-MS). Instructional fee required (refundable).

CHEM 435 Chemistry of Hazardous Materials (3)
Prerequisite: CHEM 301B. An in-depth examination of hazardous chemicals; organic and inorganic air-and-moisture-sensitive compounds, reactive metals; chemical reactivity patterns; chemical compatibilities; storage and handling; methods of disposal and waste containment; federal and local regulations; case histories. (3 hours lecture)

CHEM 436 Atmospheric Chemistry (3):
Prerequisite: CHEM 315 or consent of instructor. Chemistry and photochemistry of the troposphere and stratosphere, both natural and polluted. Includes fundamental reaction kinetics and mechanisms, monitoring techniques, smog chamber, field and modeling studies. (3 hours lecture)

CHEM 437 Environmental Water Chemistry (3):
Prerequisite: CHEM 315. Chemical characteristics of fresh and oceanic water; major water pollutant classes, origins, environmental chemical transformations, effects, abatement, and fates; chemical methods for determining water quality, large scale processes for water treatment. (3 hours lecture)

CHEM 438 Environmental Biochemistry (3):
Prerequisites: CHEM 301B plus CHEM 305. Effects of current agricultural, industrial, and mechanical practices on the composition, metabolism and health of soil, plants, animals and man, from biochemical perspective; mechanism of action and degradation of common agricultural chemicals and industrial pollutants. (3 hours lecture)

COMMUNICATIONS (COMM)

COMM 428 Communications and Social Change (3):
Prerequisites: COMM 233 and junior standing. How innovations, ideas, products, and practices perceived as new are communicated to members of a social system. The roles of adopters, opinion leaders, change agents and communications in the diffusion of innovations and consequent changes in social systems.

COMM 464 Public Relations Management (3):
Prerequisites: COMM 361, 362, and junior standing. Analysis of systems and strategies for planning public relations campaigns and solving/preventing problems. Individual, team case studies, in corporate development of proposals; actual use of tools in addition to role playing presentations to management.

ECONOMICS (ECON)

ECON 411 International Trade (3):
Prerequisites: BUAD 301, ECON 310 or 315 or equivalent. The theory of international gains from free trade, effects of tariff and non-tariff barriers, and conduct of commercial policy. The balance of payments, the theories of exchange rate determination, and other international economic issues.

ECON 461 Ecological Economics (3):
Prerequisites: BUAD 301, ECON 310 or 315 or equivalent. The application of economic concepts and methods to understanding the ways in which human economic behavior contributes to environmental and ecosystem degradation; the use of economic approaches to evaluate and manage these impacts; the design of sustainable economic policies.

ECON 462 Natural Resource Economics (3):
Prerequisites: BUAD 301, ECON 310 or 315 or equivalent. Concepts and principles in the application of economics to issues in natural resource economics. Issues will include uncertainty and risk in investment, depletion over time,
cartelization, the role of technological innovation and government intervention related to fuels, water, land, etc.

ECON 516 Economics and Benefit-Cost Analysis (3):
Prerequisites: ECON 201 and classified graduate status in environmental studies or public administration. Economics and benefit-cost analysis of public projects. Consumer demand and the estimation of benefits; the nature of cost in a market economy; price controls, unemployment and inflation; and criteria choice, for multi-year projects. For elective credit in M.S. Environmental Studies or M.P.A.

EDUCATIONAL LEADERSHIP (EDAD)

EDAD 503 Organizational Leadership (3):
Prerequisite: admission to Preliminary Credential and/or master’s program. The focus of this class is on using organizational theory and leadership studies to understand schools and how to bring about change in schools. The course includes study of the organization, structure, and cultural context of schools and the study of techniques used to guide, motivate, delegate, build consensus, and lead others in the achievement of goals.

ELEMENTARY & BILINGUAL EDUCATION (EDEL)

EDEL 511 Survey of Educational Research (3):
Prerequisite: teaching credential or consent of instructor. Descriptive statistics and statistical inferences in educational research. Representative research papers. Principles of research design. Prepare papers using research findings.

EDEL 521 The Study of Teaching (3):
Prerequisite: EDEL 511 and teaching credential or permission of instructor. A systematic study of the teaching process. Examination of the research methodology used to analyze teaching, the current knowledge of the association between teaching processes and student learning, and the implications of the research for the classroom.

EDEL 533 Graduate Studies in Elementary Education:
Science (3):
Prerequisite: teaching credential or consent of instructor. Seminar: research in elementary school science. The development of materials.

EDEL 536 Curriculum Theory and Development (3):
Prerequisite: teaching credential or consent of instructor. Seminar: the school curriculum including the forces operating on the curriculum and the participants involved in curriculum building. The process of curriculum building.

ENGINEERING (EGCE)

EGCE 436 Engineering Hydrology (3):
Corequisite: EGCE 428. Hydrologic cycle with applications to hydrologic design of engineering structures. Rainfall, stream flow, ground water, surface runoff, hydrographs, flood routing, frequency distributions and design hydrographs.

EGCE 441 Environmental Engineering (3):
Prerequisites: BIOL 101, or CHEM 120A and EGGN 308. Planning and control of the environment; wastewater treatment and disposal; solid waste management; air pollution; radiation protection; housing and residential environment.

EGCE 466 Public Transit Systems Planning & Operations (3):
Prerequisite: senior standing in Civil engineering. Urban passenger transportation modes, paratransit, special modes, vehicles characteristics and motion, highway transit mode, rail transit mode new concepts, transit system performance (capacity, productivity, efficiency and utilization, organization and financing).

EGCE 481 Solid Waste Technology & Management (3):

EGCE 482 Liquid Waste Technology & Management (3):
Prerequisite: EGCE 441 or equivalent. Process dynamics; reactions and kinetics; reactor engineering and process design; pretreatment operations and physical, chemical and biological treatment operations; residual management and treatment process train selection.

EGCE 515 Geo-Environmental Engineering (3):
Prerequisite: EGCE 436 or equivalent. Geo-environmental properties and soil action related to problems encountered in waste management engineering; physico-chemical soil properties, shear strength as applied to landfill design and lateral earth pressures on braced excavation; contaminant migration and partitioning in unsaturated soils.

EGCE 532 Earthquake Engineering (3):
Prerequisites: EGCE 411 and 533 or equivalent. Earthquake motions; response spectra; computational methods and computer applications for response of structural systems. Energy absorption capacity of materials and structural components. Soil structure interaction. Seismic design and evaluation of current building codes.

EGCE 537 Groundwater & Seepage (3):
Prerequisite: EGCE 436 or equivalent. Equations governing flow of liquid in porous media. Seepage through dams and under structures, flow in confined and unconfined aquifers, steady and unsteady flow, well fields, flow nets, computer solutions, sea water intrusion, recharge, groundwater pollution.

EGCE 546 Coastal Engineering (3):
Prerequisites: EGCE 418 and EGCE 436 or equivalent. To introduce theories and applications in coastal engineering, coastal hydrodynamics, coastal development, planning of ports, and conceptual engineering design, tide, wave, wind, currents, littoral drift, beach erosion and sedimentation,
coastal geomorphology. Port planning, location, design factors and engineering features. Preparation of construction, dredging, anchoring and dewatering. Effect of coastal engineering on environment.

EGCE 559 Environmental & Public Transportation Regulations (3):
Prerequisite: EGCE 441 or equivalent. Environmental regulations, Clean Air Act, Intermodel Surface Transportation Efficiency Act of 1991, Federal Transit Administration project planning guidelines, planning for public transit and environmental requirements, development of required environmental documents; procedure for major investment studies; future of public transportsations. Project.

ENGINEERING – MECHANICAL (EGME)

EGME 475 Acoustics and Noise Control (3):
Prerequisite: Physics 227. Basic phenomena on the propagation, absorption and generation of acoustic waves, specification and measurement of noise, effects of noise on speech and behavior, legal aspects of industrial and building noise, principles and application of noise control.

ENGLISH (ENGL)

ENGL 429 American Landscape in Literature (3):
The American landscape in literature. Literary perception of our environment, with special attention of what perceptions of the landscape reveal about human nature.

FINANCE (FIN)

FIN 454 Real Estate Market Analysis (3):

FIN 456 Property Development & Management (3):
Prerequisite: FIN 351. Decision making process in the property development process – from raw land to marketing and management of the completed product. Policy formulation and implementation, project feasibility analysis, financial analysis, computer assisted analysis; case studies.

GEOGRAPHY (GEOG)

GEOG 422 Regional Climatology (3):
Prerequisite: GEOG 323 or consent of instructor. Major climatic regions of the world; the physical factors that produce climatic patterns.

GEOG 425 Tropical Rainforests (3):
Prerequisites: GEOG 110 and GEOG 325 or equivalent.
Discussion/semester examining the geography, ecology, and human use of tropical rainforests. Focus on the causes and consequences of deforestation, sustainable development, and preservation.

GEOG 426 The Coastal Environment (3):
Prerequisites: GEOG 110 and one upper-division physical geography course. An overview of coastal geomorphology, climatology, and plant geography with an emphasis on Southern California. Human interaction, modification, and management of these systems.

GEOG 452 Ecotourism (3):
Prerequisites: senior or graduate standing. Evolution and distribution of nature-based tourism. The role of ecotourism in regional development and environmental conservation. Focus on sociocultural impacts in less developed countries.

GEOG 475 Interpretation of Urban Landscapes (3):
Prerequisite: GEOG 357 or 370. In addition, consent of instructor. A geographic view of the city as a landscape composite of structure, space, place and experience. Emphasis is on the European and Northern American city.

GEOG 478 Urban Planning Principles (3):
Prerequisite: GEOG 370 or POSC 320 or consent of instructor. Seminar/discussion on the conceptual themes and legal foundations of American urban planning. Policy areas associate with urbanization and suburbanization processes: land use, economic development, redevelopment, housing systems, neighborhood dynamics and growth management. (Same as POSC 478)

GEOG 481 Geographic Information Systems: Introduction (3):
Prerequisite: senior or graduate standing. Methods and applications of computer-assisted mapping and geographic information systems. Instructional fee. (2 hours discussion, 3 hours lab)

GEOG 482 Environmental Impact Assessment (3):
Prerequisites: GEOG 350, 431, 478, or equivalent. Techniques relevant to environmental impact assessment in accord with CEQA (state) and NEPA (federal) regulations. Systematic evaluation of major environmental impact topics. Individual and small team activities.

GEOG 484 Urban Planning Methods (3):
Prerequisite: GEOG 478 or POSC 478. Seminar and Practicum on methods in urban planning. Analytical techniques and basic data sources. Population forecasting, housing surveys, economic development, fiscal impacts and area revitalization. Individual and team projects. (Same as POSC 484)

GEOG 485 Geographic Information Systems: Principles & Applications (3):
Prerequisite: GEOG 481 or equivalent. Integrated computer-assisted methods for handling spatial data, including database
design, data conversion and updating, information retrieval, analysis, modeling and mapping. Instructional fee. (2 hours discussion, 3 hours lab)

**GEOG 486 Environmental Remote Sensing (3):**
Prerequisites: GEOG 481 or consent of instructor. This course covers the fundamentals of remote sensing science and digital image processing. Focus on the science of remote sensing principles and how to process and interpret remotely sensed environmental data using image processing techniques and software.

**GEOG 488 Land Use Analysis (3):**
Prerequisites: upper-division standing and consent of instructor. Urban and rural land use and settlement; geographic field problems. Application of geographic techniques and tools to local field studies.

**GEOG 520 Seminar in Physical Geography (3):**
Prerequisite: graduate standing or consent of instructor. Research in physical geography: methods and contemporary themes. Case studies in climatology, geomorphology, and plant geography.

**GEOG 530T Seminar: Selected Topics in Geography (3):**
Prerequisite: graduate standing or consent of instructor. Various topics selected from any of the subfields of geography. The topic chosen and a general outline of the seminar may be circulated prior to registration. May be repeated for credit.

*Political Ecology topic only: Course description not available at time of print.

**GEOG 550 Seminar in Human Geography (3):**
Prerequisite: graduate standing or consent of instructor. Survey of methodology and case studies including: experiential environments; rural landscapes; urban, social, and economic structure; geography and public policy; and Third World development.

**GEOG 570 Metropolitan Los Angeles (3):**
Prerequisites: GEOG 370, 475, or 478 or equivalent. Seminar focusing on the changing spatial structure of metropolitan Los Angeles. Specific topics include economic restructuring, local economic development, the social mosaic, political fragmentation, and growth management.

**GEOG 575 Landscape Interpretation (3):**
Prerequisite: GEOG 357 or 475 or equivalent. A humanistic approach to the nature and meaning of landscape.

**GEOG 576 Environmental Remote Sensing (3):**
Prerequisites: GEOL 101 and 101L plus upper-division standing or science teaching credential. Major concepts of the earth sciences with primary emphasis on physical and planetary geology and secondary emphasis on meteorology and oceanography. (3 hours lecture, 3 hours laboratory; field trips)

**GEOG 436 Hydrogeology (3):**
Prerequisites: GEOL 335, 360, 456, or equivalent. Occurrence, movement and utilization of groundwater resources; geological, geophysical and hydrological methods for groundwater exploration and development. Well hydraulics and groundwater contamination. (2 hours lecture, 3 hours laboratory; field trips)

**GEOG 437 Water Quality Investigations and Control (3):**
Prerequisites: GEOL 335; CHEM 120B. Methods in sampling strategy. Evaluation of chemical data for quantitative interpretation of water quality status and trends in surface and ground water. Techniques for graphic representation, water contamination source identification and control. (2 hours lecture, 3 hours laboratory; field trips)

**GEOG 460 Regional Tectonics (3):**
Prerequisites: GEOL 303B, 360, and 321 as prerequisite or corequisite. Discussion of recent literature on plate tectonics, tectonics of the world’s major orogenic belts, and tectonics of California. (3 hours lecture, Spring-recess field trip)

**GEOG 470 Environmental Geology and Planning (4):**
Prerequisites: GEOL 101, 101L or GEOL 420; 401. Geologic processes, hazards, mineral and energy resources and their interaction with planning and environmental regulations. (3 hours lecture, 3 hours lab; field trips)

**GEOG 481C Hydrology Field Camp (3):**
Prerequisites: GEOL 335 and 481A. Geologic mapping and hydrologic mapping and techniques applied to integrated hydrogeologic model for selected areas. Field report(s), map(s), cross-sections required. Instructional fee required. (45 hours per week for three weeks during the summer)

**GEOG 506T Topics in Geochemistry (1):**
Introduction to research planning: choosing a thesis topic; bibliographic search; research design (laboratory and field); data analysis techniques; research proposal preparation. (2 hours activity)

**GEOG 510T Advanced Topics in Geology (3):**
Prerequisite: consent of instructor. Selected topics in advanced geology; recent developments and applications. May be repeated for credit with different topic including advanced structural mapping, sedimentary basin analysis, igneous petrogenesis, and seismotectonics of Los Angeles basin. (2 hours lecture, 3 hours lab; field trips)

**GEOG 535T Advanced Topics in Hydrogeology (3):**
Prerequisite: GEOL 436. Modern techniques in hydrogeology. Topics include: groundwater modeling; contaminant hydrogeology; groundwater exploration and
development; well hydraulics. May be repeated for credit with a different topic. (2 hours lecture, 3 hours lab; field trips)

GEOL 575T Advanced Topics in Engineering Geology (3):
Prerequisite: GEOL 375. Modern techniques and new advances in engineering geology. Topics include: neotectonics of Southern California; soil stratigraphy; and landslide analysis. May be repeated for credit with a different topic. (2 hours lecture, 3 hours lab; field trips)

HEALTH SCIENCE (HESC)

HESC 400 Program Design (3):
Prerequisite: KNES 202 or HESC 320. This course is designed to provide the student with the skills necessary for developing, implementing, and evaluating human movement and/or health promotion programs for specific target populations. (Same as KNES 400)

HESC 401 Epidemiology (3):
Prerequisites: HESC 320 and 349 or equivalent. Application of epidemiologic procedures to the understanding of the occurrence and control of infectious and chronic diseases, mental illness, environmental health hazards, accidents and geriatric problems. (Same as NURS 401)

HESC 440 Determinants of Health Behavior (3):
Prerequisites: HESC 320 or KNES 202. Survey of contemporary research on the health effect of human behavior. Introduction to theoretical foundations and practical applications of behavior in the context of health: physical, psychological, cultural and social health. Includes current issues and theories of health behavior.

HESC 460 Worksite Health Promotion (3):
Prerequisites: HESC 320 or KNES 202. Examination of the philosophy rationale and guidelines for developing health promotion programs in the corporate setting. Unique considerations in assessing needs, planning and implementing programs, evaluating effectiveness and coordinating activities in the workplace as discussed. (Same as KNES 460)

HESC 461 Occupational Health and Safety (3):
Prerequisite: HESC 320. Principles of occupational health including anticipation, recognition, evaluation and control of occupational hazards are presented to understand the influence of workplace hazards on human health. Occupational health laws, regulations and methods of compliance are reviewed.

HESC 475 Health Science Planning, Research and Evaluation (3):
Prerequisite: HESC 320 and 349 or equivalent. Identification and application of concepts related to Health Science planning, research and evaluation. Includes analysis of planning and research designs applicable to health professionals as well as tools for measurement of health status at individual, community, and national levels.

HISTORY (HIST)

HIST 408 History of California (3):
Prerequisite: completion of General Education requirement II.B. The political, economic, and social history of California from aboriginal inhabitants to the present; the development of contemporary institutions and the historical background of current issues.

HIST 478 The History of Orange County (3):
Prerequisite: HIST 170B or 180 or equivalent. The history of Orange County. Stress on the process of urbanization.

HIST 479 The Urbanization of American Life (3):
Prerequisite: completion of General Education requirement II.B. Urban life in America; the colonial town, the western town and the industrial city.

HIST 492 Community History (3):
Prerequisite: completion of General Education requirement II.B. Historical development of communities in general including the Orange County area. Techniques of gathering and processing local historical data, including oral interviews and other archival materials.

HIST 493 Oral History (3):
Prerequisite: completion of General Education requirement II.B. The utilization of tape recorded interviews to document significant events in 20th-century history. Training will be given in interviewing techniques, specific background research and equipment use, after which students conduct a number of tape recorded interviews.

HIST 494 History and Editing (3):
Prerequisite: senior standing and consent of instructor. Techniques of editing, book and photo layout, and indexing. Focuses on oral history documents but includes other historical and technical editing.

LIBERAL STUDIES (LBST)

LBST 488 Senior Seminar in Environmental Studies (3):
Prerequisite: senior standing and LBST 304 or 305. An interdisciplinary seminar involving the examination and analysis of environmental problems from the perspectives of the natural sciences and the social sciences. Students participate in class discussions and write papers on environmental topics.

MATHEMATICS (MATH)

MATH 414 Topology (3):
Prerequisites: MATH 350. Topological spaces and continuous functions, connectedness and compactness, metric spaces and function spaces.
MATH 435 Mathematical Statistics (3):
Prerequisite: MATH 335 or equivalent. Statistical theory and its applications, based on the use of calculus.

MATH 438 Introduction to Stochastic Processes (3):
Prerequisite: MATH 335. Stochastic processes including Markov chains, the Poisson Process, the Weiner Process. Applications to birth and death processes and queuing theory.

MATH 440 Advanced Numerical Analysis (3):
Prerequisite: MATH 340. Advanced topics in numerical analysis selected from iterative methods for linear systems, approximation of eigenvalues and eigenvectors, numerical methods for ordinary and partial differential equations, optimization methods and approximation theory. Errors and convergence analysis and computer coding.

MATH 470 Advanced Mathematical Model Building (3):
Prerequisite: MATH 370. A continuation of MATH 370. Discrete, continuous and stochastic models utilizing methods from applied mathematics. A project suitable to the students background and interest may be required.

MATH 501A Numerical Analysis & Computation I (3):
Prerequisites: MATH 489A, B or consent of instructor. Numerical methods for linear and nonlinear systems of equations, eigenvalues problems, interpolation and approximation, spline functions, numerical differentiation, integration and function evaluation. Error analysis, comparison, limitations of algorithms. Must be taken concurrently with MATH 501B.

MATH 501B Numerical Analysis & Computation II (3):
Prerequisites: MATH 489A, B or consent of instructor. Numerical methods for initial and boundary-value problems for ordinary and partial differential equations. The finite element method. Error analysis, comparison, limitations of algorithms. Must be taken concurrently with MATH 501A.

MATH 503A Mathematical Modeling I (3):
Prerequisites: MATH 489A, B or consent of instructor. Mathematical modeling concepts. Topics may include dimensional analysts, scaling, and sensitivity; system concepts, state space, observability, controllability, and feedback; dynamical systems, models and stability analysis, optimization models.

MATH 503B Mathematical Modeling II (3):
Prerequisites: MATH 489A, B or consent of instructor. Development and analysis of mathematical models in such areas as mechanics, economic planning, operations management, environmental and ecological sciences, biology and medicine. The course includes a project, with students working in a team setting.

MATH 504A Simulation Modeling & Analysis (3):
Prerequisites: MATH 501A, B; 502A, B, 503A, B and consent of instructor. Advanced techniques of simulation modeling including design of Monte Carlo, discrete event, and continuous simulations. Topics will include output data analysis, comparing alternative system configurations, variance reduction techniques, and experimental design and optimization. Must be taken concurrently with MATH 504B.

MATH 504B Applications of Simulation Modeling Techniques (3):
Prerequisites: MATH 501A, B; 502A, B, 503A, B and consent of instructor. Introduction to a modern simulation language, and its application to simulation modeling. Topics will include development of computer models to demonstrate the techniques of simulation modeling, model verification, model validation, and methods of error analysis. Must be taken concurrently with MATH 504A.

PHYSICS (PHYS)

PHYS 481 Experimental Physics (3):
Prerequisites: PHYS 227, PHYS 380 recommended. Techniques and methods of experimental physics including: use of sensors, transducers, time series, power spectra, phase sensitive detection, computer interfacing and signal conditioning. Experiments cover several areas of physics. Instructional fee required. (1 hour lecture, 6 hours laboratory)

POLITICAL SCIENCE (POSC)

POSC 403 Politics and Policy in Sacramento (3):
Prerequisites: completion of General Education requirement III.C.1. The nature of policy making in California’s state capital. Persistent policy themes and constraints; current issues in education policy. Required three-day trip in Sacramento for seminars and policy briefings. Class times prior to Sacramento visit may vary.

POSC 414 Legislature and Politics (3):
The legislative process in Congress and state legislatures. Legislative behavior, policy, representation, and reform. Congressional oversight and the legislative roles of the President, bureaucracy and interest groups.

POSC 427 Policy-Making: Urban/Metropolitan Issues (3):
Policy issues and alternatives in urban and metropolitan problem areas such as law enforcement, transportation, housing or poverty.

POSC 446 Corruption, Ethics, & Public Policy (3):
Ethical problems which face persons in the public service. The focus is on practical decision-making.

POSC 457 Politics of International Economics (3):
The link between economics and international politics. The political economy of free trade and imperialism, of neo-colonialism and foreign aid.

POSC 461 The United Nations & International Organizations (3):
Structure, functions, and political processes of the United Nations, various specialized organizations such as the World
Bank, and regional organizations such as the European Community.

**POSC 475 Administrative Law (3):**
Law as it affects public officials and agencies in their relations with private citizens and the business community. Case materials and regulatory practices.

**POSC 478 Urban Planning Principles (3):**
Same as Geography 478. (See GEOG 478 for description)

**POSC 484 Urban Planning Methods (3):**
Same as Geography 484. (See GEOG 484 for description)

**POSC 485 Women & Politics (3)**
The changing political environment and women’s role in elected, appointed and other public agencies; issues of particular concern to women, including family issues, comparable worth and other economic issues and political participation. Not applicable for graduate degree credit. (Same as Women’s Studies 485)

**POSC 490 Civic Engagement & Community Activism (3):**
Prerequisites: Senior standing and consent of instructor. How community leaders and activists influence public policy. Senior seminar in which students will identify issues and work with individuals and organizations in the community to bring about change.

**POSC 509 Administrative and Systems Management (3):**
For graduate students in public administration who have not had an introductory course in public administration. Organizational theory and practice, decision-making, systems analysis, performance evaluation and administrative improvement.

**POSC 519 State and Local Government (3):**
The structure, processes, functions and interrelationships of state and local governments in American society. State, county, municipal and special district governments in California as compared with other states.

**POSC 523 Administrative Research Analysis (3):**
Conceptual methods employed in administrative research and analysis: organization and procedure of surveys, performance evaluation, social impact assessment, computer data analysis, and report writing.

**POSC 525 Seminar in Metropolitan Area Government (3):**
Prerequisites: a course in basic statistics and POSC 320 or 509. Political and policy issues facing metropolitan America, and the capacity of governmental institutions to handle urban problems.

**POSC 528 Seminar in Public Administration & Policy (3):**
Interplay between public policy and program administration in federal government. Discussion of administrators’ role in policy development, administrative discretion in implementing policy, use of political resources by administrators.

**POSC 540 Seminar Readings in Political Philosophy (3):**
Examination of the foundations of contemporary political science through readings in the classics of political philosophy.

**POSC 580 Emergency Management in Public Administration (3):**
A comprehensive review of the state-of-the-art in prevention, warning, evacuation, rescue and recovery systems. Covers the development of public policy relating to land use planning, recovery, issues of liability, intergovernmental relations and effective planning.

**SCIENCE EDUCATION (SCED)**

**SCED 410 Physical Science Concepts (3):**
Prerequisite: completion of general education natural science requirements or consent of instructor. For elementary school teachers. Major concepts in the physical sciences. Observing, classifying, recognizing space-time relations, measuring, inferring, formulating hypotheses, controlling variables and interpreting data. (2 hours lecture, 2 hours activity)

**SCED 412 Processes of Science (3):**
Prerequisites: junior or senior standing in a science major or admission to the MAT-Science graduate program. Methodologies (action research), logical procedures and explanatory systems that characterize the various natural sciences. The role of science and technology in society. (2 hours lecture, 1 hour activity, 1 hour TBA)

**SCED 453 Life Science Concepts (3):**
Prerequisite: completion of general education requirements or consent of instructor. Biological principles using science processes appropriate for elementary teachers. (2 hours lecture, 2 hours activity)

**SCED 495A,B Naturalist Internship (3,3):**
Prerequisite: consent of instructor. Supervised in-service training at the Tucker Wildlife Sanctuary. For the prospective biological science teacher, communications major and others interested.

**SCED 550 Theoretical Designs in Science Education (3):**
Review of major directions, designs and assumptions of science education reform such as the nature of science and scientific inquiry, scientific literacy, the National Science Education Standards, state curricular frameworks, and international and national science assessment. Emphasis will be placed on how reform affects curriculum, major curricular projects and curricular evaluation. (3 hour lecture)

**SCED 554 Issues in Science Education (3):**
Prerequisite: graduate standing. Major contemporary issues in science education. (3 hour lecture)
SECONDARY EDUCATION (EDSC)

EDSC 440M Multicultural Education in Public Schools (3):
Key concepts, issues and terms in multi-cultural education; basic information about various ethnic groups in the United States, particularly California; and instructional approaches and strategies for teaching lessons in content areas about and/or to students from various ethnic backgrounds, particularly those who are limited in their proficiency in academic English. May be taken Credit/No Credit or for a letter grade. A “B” or better is required to receive a grade of credit.

EDSC 522 Family, Community, & Professional Partnerships (3):
This course examines effective teaching practices in working with diverse student populations so as to promote equal learning opportunities. Overview of successful community collaboration with service providers, business leaders, policy makers, and parents. Addresses complex diversity of families and teaching situations. Stresses importance of partnerships with professional agencies concerned with adolescents.

EDSC 536 Curriculum Theory & Development (3):
The secondary school curriculum including the forces operating on the curriculum and the participants involved in middle and high school curriculum building. The process of curriculum building.
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<td>Emergency Management, Natural Hazards</td>
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<td><strong>Form</strong></td>
<td><strong>Approximate Deadline</strong></td>
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<tr>
<td>Change in Study Plan</td>
<td>Any time you take classes not listed on your Study Plan</td>
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<tr>
<td>Excess Units</td>
<td>Approval required prior to semester of enrolling in excess units</td>
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<tr>
<td>Leave of Absence</td>
<td>Any time you will not be taking classes (does not include summer)</td>
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<tr>
<td>Post-Baccalaureate Change</td>
<td>Should you decide to change degree objectives (BIOL to ENST)</td>
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<td>Of Objective</td>
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<tr>
<td>Study Plan</td>
<td>Prior to the first 9 units</td>
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</table>
The following are forms that may be needed or required during your ENST program. Be aware of them and make sure the necessary forms are completed and submitted promptly to the correct person/office. The abbreviations are as follows:

<p>| | | | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>1</td>
<td>Admissions &amp; Records</td>
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<tr>
<td>2</td>
<td>Coordinator</td>
<td></td>
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<tr>
<td>3</td>
<td>Environmental Studies Office</td>
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<tr>
<td>4</td>
<td>Faculty Advisor</td>
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<td>5</td>
<td>Graduate Studies Office</td>
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<td>6</td>
<td>On-line</td>
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<td>7</td>
<td>Student File</td>
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</tbody>
</table>

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<tr>
<th>What:</th>
<th>Type of Form:</th>
<th>Location of Form:</th>
<th>Signed by</th>
<th>Final Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change in Study Plan</td>
<td>Form</td>
<td>3 or 6</td>
<td>2</td>
<td>3 then 7</td>
</tr>
<tr>
<td>Excess Units – Graduate Student</td>
<td>Request</td>
<td>5 or 6</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Leave of Absence Graduate/Post baccalaureate</td>
<td>Request</td>
<td>5</td>
<td>student &amp; 5</td>
<td>5, 7 &amp; student</td>
</tr>
<tr>
<td>Post baccalaureate/Graduate Change of Academic Objective</td>
<td>Application</td>
<td>1 or 5</td>
<td>2 &amp; 5</td>
<td>1</td>
</tr>
<tr>
<td>Study Plan</td>
<td>Form</td>
<td>3</td>
<td>4 then 2</td>
<td>3, 5 then 7 &amp; student</td>
</tr>
</tbody>
</table>
REQUEST FOR
CHANGE IN STUDY PLAN
FOR THE MASTER’S DEGREE

(Please Print)
Name ___________________________ Student ID No. ___________________________
Address ___________________________ Phone: ___________________________
E-Mail Address: ___________________________

Degree Program ___________________________

I request the following change(s) in my study plan for the Master’s degree.
(List department name, course number, course title, and units.)

FROM


Reason for request:


Signed ___________________________ Date ___________________________

☐ Request Approved
☐ Request Denied (Reason): ___________________________

Signed ___________________________ Date ___________________________

Graduate Program Adviser ___________________________ Date ___________________________
REQUEST FOR EXCESS UNITS - GRADUATE STUDENT

Name ___________________________ Student ID No. ______________________
Address __________________________

Degree Program __________________________
I wish to register for _____ units for: ☐ Spring Semester 20 ___ ☐ Fall Semester 20 ___

Reason for this request:
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Signed ___________________________ Date __________________

The maximum number of units a student may take toward a master's degree is 12 units per semester. In exceptional cases, a student may take more units with the approval of the graduate program adviser.

Factors to consider when planning a study program involving excess units include time spent in employment or commuting, the nature of the academic program, extracurricular activities and possible health considerations.

Requests are to be signed by the student’s graduate program adviser and submitted with the student’s registration form.

☐ Request Approved.

☐ Request Denied/Reason: __________________________

Signed ___________________________ Date __________________

Graduate Program Adviser
Request for Leave of Absence
Graduate Degree or Credential Students

Name ___________________________ Student I.D. Number ___________________________

Street ____________________________ Telephone ( ) ____________________________

City and State __________________________ Zip Code ____________________________

Degree or credential objective (e.g., M.A. History, Single Subject Credential, etc.): __________________________

Instructions:
Complete and submit this form (in triplicate) to the Admissions and Records Service Center in Langsdorf Hall, room 114. You will receive notification of the decision by mail within 2-3 weeks.

Policy:
Students must be in good academic standing and have completed at least six units toward the degree or credential in residence at Cal State Fullerton in order to qualify for a leave. It is recommended that leave requests be submitted before the first day of classes for any given semester. Supporting documentation is required for leaves requested longer than one semester. A leave of absence is normally not granted for longer than two consecutive semesters. An appeal request does not extend the leave initiation imposed by the State for completing degree or credential requirements. If the leave extends beyond the student's new credential requirements imposed by the State regardless of catalog year, the leave is denied.

Reason(s) for requesting a leave of absence (attach additional pages if appropriate):

__________________________ __________________________

Semester(s) being requested: Spring Fall

Today's date: __________________________ Signed: __________________________

OFFICE USE ONLY:
☐ Approval: Spring Fall ☐ Denial

Director, Graduate Studies

Date

 Granted until: __________________________

Denied

Signature __________________________ Date __________________________

Copies: Original Student
       Yellow Student Office
       Pink Records Office
       Student File

Comments:
POST-BACCALAUREATE / GRADUATE CHANGE IN OBJECTIVE FORM

Applying for: Fall 19___ Spring 19___

1. Student ID number: __________________________ Social Security Number: __________________________

2. Legal name: ____________________________________________________________
   Last (family) _____________________________________________ First ________
   ____________ Middle ________________ Prior __________

3. Mailing address: _________________________________________________________
   Street Number ______________ Street Name __________________ Apartment No. ______
   City __________________ State __________ Zip Code __________
   Home Phone __________ Business Phone __________ E-mail __________ Fax __________

4. Birthdate: __________

5. Country of Citizenship
   Check One: [ ] US Citizen [ ] Immigrant [ ] Visa holder

6. Are you a currently a continuing student eligible to enroll at California State University, Fullerton? [ ] Yes [ ] No

7. Current objective: Degree __________________ Major __________________ Credential __________________
   a. Have you completed student teaching? [ ] Yes [ ] No
   b. Do you hold a teaching credential? [ ] Yes [ ] No
   c. Teaching credential major? ____________ minor? ____________

8. This application is to (Check box that applies):
   [ ] Add a credential objective to my current major
   [ ] Add a master's degree to my current credential objective
   [ ] Change my major to a new objective.

9. Desired Objective: (Check and complete the line that best defines your desire)
   [ ] Degree __________________________
   [ ] Degree __________________________ and Credential __________________________
   [ ] Credential only* __________________________
   [ ] Certificate only __________________________
   [ ] Nonobjective (undergraduate or graduate degree)

* If your new credential objective requires a single subject or the multiple subject credential, have you applied for admission to the division of teacher education? [ ] Yes [ ] No

10. List in chronological order all colleges and universities attended, including professional schools, regardless of length of attendance and even if no work was completed. Official transcripts from each of these colleges must be received before this request can be processed. Note: You do not need to send transcripts from Cal State Fullerton.

<table>
<thead>
<tr>
<th>Name/Location</th>
<th>Months/Years of Attendance</th>
<th>Major</th>
<th>Estimated Overall GPA</th>
<th>Degree earned month/year</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

- 50 -
11. Courses in progress:
   Institution
   Term/Year
   Dept. course number and title
   Unit value

12. Courses planned in future:
   Institution
   Term/Year
   Dept. course number and title
   Unit value

13. List below standardized U.S. graduate admissions tests taken, i.e., GRE, GMAT, MCAT, TOEFL
   Standardized test
   Latest date taken (or to be taken)
   Scores (if known)

14. Academic honors (scholarships, awards, publications)

15. Foreign language (name of language spoken, level of proficiency, i.e., fluent, average, passable):

16. Employment: List all applicable employment. Include military service, but omit summer and part-time work not relevant to your professional (academic) career. Indicate present employer, if now employed.
   Employer
   Nature of work
   Inclusive dates

17. Recommendations: If required by the individual program to which you are applying, list below three faculty members who know your academic qualifications, including performance, potential, and motivations, and request that they send letters of reference on your behalf to the specific major department.
   Name
   Address
   Position
18. Please give brief reasons for pursuing the desired postbaccalaureate study:

I certify that all information submitted in this application is true, complete, and accurate. I understand that any misrepresentation will be cause for denial of admission.

Date
Signature of applicant

For Office Use Only
Environmental Studies Program

Master of Science in Environmental Studies

Concentration:

Name
Address
Student ID
ZIP

Date

Home Phone:

Work Phone:

The following preclassification requirements have been met:
1. □ BA □ BS □ Other from Undergraduate Month/Year
2. □ Minimum GPA of 3.0 last 60 units OR
□ CPA deficit at admission satisfied
3. □ One undergraduate course each in Ecology and Quantitative Methods OR equivalent.
4. □ Three letters of recommendation
5. Writing Requirement will be met by ENVST 500

ALL STATE AND UNIVERSITY REQUIREMENTS ARE TO BE MET INCLUDING FIVE-YEAR LIMIT

<table>
<thead>
<tr>
<th>Study Plan Requirements*</th>
<th>Units</th>
<th>Grade</th>
<th>Sem/Yr</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIRONMENTAL STUDIES CORE (9 units):</td>
<td></td>
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<td></td>
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<tr>
<td>ENVST 500 Environmental Issues and Approaches</td>
<td>3</td>
<td></td>
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<tr>
<td>ENVST 510 Environmental Evaluation and Protection</td>
<td>3</td>
<td></td>
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<tr>
<td>ENVST 520 Environmental Research &amp; Analysis</td>
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<tr>
<td>ENVIRONMENTAL STUDIES ELECTIVES (9-15 units)</td>
<td></td>
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<tr>
<td>CROSS-DISCIPLINARY ELECTIVES (up to 3 credits to include Environmental Studies)</td>
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</tbody>
</table>

RESEARCH OPTION (3 units)

| ENVST 598 Thesis or ENVST 597 Project | 3  |       |        |          |
| TOTAL UNITS REQUIRED | 36  | (Minimum one-half 500-level) |

*Must include one planning course (indicated by asterisk). Electives require adviser approval.

Committee Members:

Faculty Adviser
Department
Reviewed in
CLASSIFIED GRADUATE STANDING GRANTED

Date
Date
Date

Associate Vice President, Academic

PC 3/02

Rec'd Graduate Studies Office:

Copies Sent:
Graduating Students
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IS FUNDING AVAILABLE FOR RESEARCH OR ATTENDING CONFERENCES?
The Interclub Council (ICC) at CSUF has some funding for conferences and research. Check with the ENST ICC Representative for information on the proposal/funding request process. Also be sure to check postings on the bulletin board outside the ENST office (H-420A).

HOW LONG DO I HAVE TO FINISH THE ENST MASTERS PROGRAM?
Five (5) years, beginning with the semester of the earliest course on your Study Plan. When individual circumstances warrant, this time limit may be extended to seven (7) years by filing a petition for “Extending the Time Limit” with the Graduate Studies Office. The Coordinator and the Graduate Studies office must both give prior approval for any degree extensions.

NOTE: Approvals must be obtained prior to the expiration of the five-year limit.

WHAT IF MY COURSEWORK IS OUTDATED?
Outdated coursework (i.e., older than the approved time limit) must be repeated or replaced. A maximum of nine (9) units of CSUF coursework may be exempt from this policy if the courses can be validated by passing a written comprehensive exam or by some equivalent method. Students may opt to take a different course to “replace” the outdated coursework.

Note: Students must still file a petition to validate outdated coursework, if the course(s) exceed the five (5) year limit.

WHEN DO I NEED TO FINISH BY?

<table>
<thead>
<tr>
<th>Date of first class listed on Study Plan</th>
<th>Must finish prior to the start of this semester:</th>
<th>Add 2 yrs, must finish prior to the start of this semester:</th>
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</thead>
<tbody>
<tr>
<td>Fall 2000</td>
<td>Fall 2005</td>
<td>Fall 2007</td>
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<tr>
<td>Spring 2001</td>
<td>Spring 2006</td>
<td>Spring 2008</td>
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<tr>
<td>Fall 2001</td>
<td>Fall 2006</td>
<td>Fall 2008</td>
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<td>Spring 2002</td>
<td>Spring 2007</td>
<td>Spring 2009</td>
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<td>Fall 2002</td>
<td>Fall 2007</td>
<td>Fall 2009</td>
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<td>Spring 2003</td>
<td>Spring 2008</td>
<td>Spring 2010</td>
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<td>Fall 2003</td>
<td>Fall 2008</td>
<td>Fall 2010</td>
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<td>Spring 2004</td>
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<td>Spring 2011</td>
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<td>Fall 2004</td>
<td>Fall 2009</td>
<td>Fall 2011</td>
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<td>Spring 2005</td>
<td>Spring 2010</td>
<td>Spring 2012</td>
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<td>Fall 2005</td>
<td>Fall 2010</td>
<td>Fall 2012</td>
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<td>Spring 2006</td>
<td>Spring 2011</td>
<td>Spring 2013</td>
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<tr>
<td>Fall 2006</td>
<td>Fall 2011</td>
<td>Fall 2013</td>
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<td>Spring 2014</td>
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<tr>
<td>Fall 2007</td>
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<td>Fall 2014</td>
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<tr>
<td>Spring 2008</td>
<td>Spring 2013</td>
<td>Spring 2015</td>
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<tr>
<td>Fall 2008</td>
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<td>Fall 2015</td>
</tr>
<tr>
<td>Spring 2009</td>
<td>Spring 2014</td>
<td>Spring 2016</td>
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<tr>
<td>Fall 2009</td>
<td>Fall 2014</td>
<td>Fall 2016</td>
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</table>
HOW DO I SELECT A PROJECT/THESIS ADVISOR?
An advisor should be selected based on several factors. Selection of an advisor should only be done when all the information has been evaluated. Listed below are some questions you should ask the potential advisor before asking them to work with you:

- What is the average time their students take to finish their degrees?
- What is the dropout rate for their students?
- How long have they been on the faculty?
- Are they planning on retiring soon?
- Can they serve on the committee or act as an advisor?
- Are they full-time faculty?
- Are they compatible with your personality?
- What do their current graduate students think of their advising skills?
- Do they have a hands-on or hands-off approach?

Remember: You are the one ultimately responsible for your graduation; don’t worry about how the professor will feel about you leaving them… worry about graduating. A lot of people never graduate, even though they have only 3 units left to complete their degree. Don’t let a retiring or part-time advisor stop you from graduating!

WHO SHOULD I ASK TO BE MY PROJECT/THESIS ADVISOR?
Faculty members are under no obligation to be your advisor. Decide on the general topic of your Project/Thesis early in your program and make a point of taking a class or more from a faculty who focuses on that subject area. In any case, most faculty members will not accept a student who has not taken a class from him/her. Ultimately, it is recommended that students find a full-time tenured faculty member to work with who is NOT nearing retirement.

WHAT IF I DECIDE TO CHANGE ADVISORS?
If your advisor is frequently inaccessible (away on sabbatical, near retirement, etc.) you may want to consider changing advisors. Discuss this change first with your new potential advisor; make sure they are willing to take you and your Project/Thesis over. Have this new advisor sign the paperwork (ENST 597 or ENST 598 form), re-submit the form to the Coordinator for approval and then inform your former advisor of the change and begin your work.

WHO CAN ACT AS MY RESEARCH ADVISOR (ENST 599)?
Your Project or Thesis advisor should be identified early in your graduate career. Listed in this handbook are all previous Project and Theses titles, years and their respective advisors that the Program has a copy submitted by the student. Any full time CSUF faculty member can serve as a research advisor, however, some faculty prefer that students take a course from them before they will consent to act as a research advisor. Discuss your situation with the Coordinator and the potential advisor. In the past, we have also had cooperative agreements with outside professionals to co-chair Project/Theses.

WHAT IF I DECIDE TO CHANGE FROM A PROJECT TO A THESIS OR VICE VERSA?
Students needing to change from a Project to a Thesis (or vice versa) must complete a new ENST 597 or ENST 598 form depending on the change. The faculty advisor and Coordinator must sign off on the change. Students must also complete a Change of Study Plan, which will be submitted to Graduate Studies by the ENST Program. In some instances, students may incur additional expenses for this change.
Project vs. Thesis

A Project or Thesis is required for the ENST Master of Science degree at CSUF. The ENST Council considers a Project and Thesis to be equivalent in the amount of work that may be required. There will be no difference in a diploma’s wording when a Project or Thesis is completed. Students can change research options after taking ENST 597 or 598, if the Coordinator supports the change. However, students must petition the Registrar for a change of coursework number, and subsequently change the Study Plan.

After finishing the Project or Thesis, a letter of completion is sent by the student’s advisor to the Coordinator. A bound copy of the Project or Thesis must be filed with the Coordinator. On receipt of the documents (and completion of the Program requirements), the Coordinator informs Graduate Studies of a student’s completion of all degree requirements.

WHAT IS A PROJECT?
“A Project is a significant undertaking in the professional field. It also evidences originality and independent thinking, appropriate form and organization, and a rationale. It is described and summarized in a written abstract that includes the project’s significance, objectives, methodology, and a conclusion or recommendation” (CSUF Catalog, page 504).

In past years, ENST Projects have included: studies, comparisons, videos, websites, CD-Roms, GIS maps/programs, etc. There is more flexibility in format with a Project.

WHAT IS A THESIS?
“A Thesis is defined as the written product of a systematic study of a significant problem. It identifies the problem, states the major assumptions, explains the significance of the undertaking, sets forth the sources for and methods of gathering information, analyzes the data, and offers a conclusion or recommendation. The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation” (CSUF Catalog, page 504).

Thesis have set guidelines published by Graduate Studies as to the font size, type, margins, use of figures, tables, graphs, maps, pagination, citations, etc. Students needing the Thesis Handbook are to contact the Assistant Coordinator and/or Graduate Studies. Theses are required to be submitted prior to the Project deadline to allow time for a reader to view the format of your Thesis and make sure all guidelines are followed. In other words, the format for a thesis is strict and must be followed exactly.

HOW MANY FACULTY ARE NEEDED FOR A PROJECT?
One (1) faculty member is required for a Project.

HOW MANY FACULTY ARE NEEDED FOR A THESIS?
A Thesis requires a faculty advisor and two (2) additional faculty committee members. Outside readers are permitted, however you must not have three (3) faculty members from the same academic field. One (1) member of your committee must be a member of the ENST Council.

WHAT MEETINGS DO I NEED TO ATTEND FOR A PROJECT?
Students should consult with their advisor prior to beginning their ENST 597 coursework. The Coordinator is notified of the faculty and topic on the “Project (ENST 597) Enrollment Form.” It is the student’s responsibility to maintain contact with their advisor during the semester and until final completion of the Project. A bound copy of the Project is to be filed with the ENST Coordinator, by the final week of classes.

WHAT MEETINGS DO I NEED TO ATTEND FOR A THESIS?
Meetings with the committee should occur early in the process to formulate a Thesis ‘contract;’ the Coordinator is notified of the committee and topic on the “Thesis (ENST 598) Enrollment Form.” The final Thesis documents are processed by the Graduate Studies Office and conforms to specific style requirements. A bound copy of the Thesis is to be deposited in the CSUF Library as well as a copy to the ENST Coordinator, by dates listed in the CSUF Class Schedule.

POSTER PRESENTATION—A NEW PROJECT REQUIREMENT

Effective Fall 2005 semester, all newly admitted ENST students will be required to produce a poster presentation upon the completion of their final research Project. This new requirement only applies to students undertaking the ENST 597 Project option. For ENST students admitted to the Program prior to the Fall 2005 semester is exempt from this requirement. Please refer to POSTER DESIGN MANUAL FOR ENST 597 PROJECT for details.
WHEN CAN I ENROLL IN THE PROJECT (ENST 597) OR THESIS (ENST 598) COURSE?

Students need to have four (4) requirements met prior to enrolling in the Project/Thesis course:

1. Completed a minimum of nine (9) units,
2. Filed and have an approved Study Plan (classified standing),
3. Selected a faculty advisor, who signs the ENST 597/598 Form, and
4. A permit by the Program Secretary is required to enroll in the 597/598 course.

WHERE DO I ENROLL IN THE GS-700 COURSE?

Students who have completed all Study Plan coursework (including enrollment in Project or Thesis) and are continuing work on their Project or Thesis must continue to enroll in Graduate Studies 700. Forms to enroll in GS-700 through adjunct enrollment are available in the Graduate Studies Office (MH-103).

WHAT IS THE PROGRAM’S POLICY ON GS-700 ENROLLMENT?

Per the CSU Fullerton Course Catalog 2001-2003, “students who have taken ENST 597 Project or ENST 598 Thesis and received a grade of SP and do not complete their project or thesis by the end of the second regular semester (one full year), they will be subject to probation for “lack of satisfactory progress towards the degree” and will be required to maintain continuous enrollment through regular (not Extended Education) enrollment” (page 194).

HOW MANY TIMES CAN I ENROLL IN GS-700 THROUGH EXTENDED EDUCATION?

If you are doing a Project you may only enroll one (1) time.

If you are doing a Thesis you may enroll two (2) times.

HOW DO I ENROLL IN GS-700 THROUGH THE UNIVERSITY?

Once you’ve met the GS-700 enrollment limit through Extended Education your name will be sent to Graduate Studies to update your enrollment in the University. Admissions and Records will change your status and you should be able to enroll any time, but during a registration window such as TITAN 1 or TITAN 2. You must update your grad check to your new graduation date before you enroll. Should you have difficulty registering contact the Assistant Coordinator or Secretary.
WHAT ARE THE PROCEDURES FOR FILING TO GRADUATE?
Students must have classified standing, meaning have a filed and approved Study Plan, prior to filing for graduation. Advancements to candidacy occur after a request is filed for a graduation check.

WHEN DO I APPLY FOR A GRADUATION CHECK?
Graduation checks must be filed in the semester before you intend to graduate. For example, for a Spring 2003 graduation, a graduation check must be filed early in the Fall 2002 semester. There is a $40 fee required and it is paid to the Cashier’s Office in University Hall, forms are found Graduate Studies Office (MH-103) or Admissions and Records (LH-114). No signatures, except the students, are required for this paperwork.

If you have missed the deadline, complete a “Late Grad Check” form, pay the $20 late fee and submit it to Graduate Studies.

HOW DO I KNOW IF I’VE COMPLETED THE DEGREE REQUIREMENTS?
Graduate Studies will send the ENST Program the files for all candidates expecting to graduate in the current semester. This will occur more than halfway through your last semester. You will be contacted by the Assistant Coordinator should you not meet the degree requirements. As a follow up, Graduate Studies will send you either graduation information or your program deficiency information.

WHEN IS GRADUATION?
Commencement ceremonies are held only in late spring (normally the end of May). If students complete requirements during January or August, they may participate in the spring ceremony.

WHERE DO I GET MY ANNOUNCEMENTS, REGALIA AND TICKETS?
Information is available online at the University’s website www.fullerton.edu or through Titan Shops.

WHAT IF I AM NOT GOING TO GRADUATE WHEN I THOUGHT I WOULD?
If you anticipated graduation in Spring according to your original Grad Check, but realize you won’t actually be finished until Fall; you must submit a Grad Check Update. There is a $10 fee required and it is paid to the Cashier’s Office in University Hall, forms are found Graduate Studies Office (MH-103) or Admissions and Records (LH-114). No signatures, except the students, are required for this paperwork.

Note: Instead of submitting a Grad Check Update each semester and paying $10 each time, if you are not going to graduate for several semesters, update your Grad Check for your anticipated semester graduation date to save money.

WHAT IF AM GOING TO GRADUATE DURING THE SUMMER?
Summer candidates must have their Grad Check current and apply for a “Petition for Summer Completion.” This form can be picked up at Graduate Studies (MH-103) and must be signed by the Project/Thesis advisor and then the Coordinator.
<table>
<thead>
<tr>
<th>Form</th>
<th>Approximate Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 597 Enrollment</td>
<td>Weeks/Days prior to starting classes, enrollment by permit only</td>
</tr>
<tr>
<td>ENST 598 Enrollment</td>
<td>Weeks/Days prior to starting classes, enrollment by permit only</td>
</tr>
<tr>
<td>ENST 599 Enrollment</td>
<td>Weeks/Days prior to starting classes, enrollment by permit only</td>
</tr>
<tr>
<td>Extending the Time Limit</td>
<td>Apply if you are close to exceeding your time limit of 5 years</td>
</tr>
<tr>
<td>Grad Check</td>
<td>Semester prior to graduation</td>
</tr>
<tr>
<td>Grad Check Update</td>
<td>When you change your graduation date (each time), semester prior to graduation</td>
</tr>
<tr>
<td>GS-700 (Extended Ed)</td>
<td>Finished all courses (30+ units), except 597/598/599 w/ SP</td>
</tr>
<tr>
<td>GS-700 (University)</td>
<td>Previous enrollment in Ext. Ed’s GS-700 (Projects = 1, Theses = 2)</td>
</tr>
<tr>
<td>Late Grad Check</td>
<td>After deadline for Grad Check, prior to graduation semester</td>
</tr>
<tr>
<td>Thesis Contract Agreement</td>
<td>Due with ENST 598 Enrollment Form</td>
</tr>
<tr>
<td>Validating Outdated Courses</td>
<td>Any time your course work exceeds the 5-year limit</td>
</tr>
</tbody>
</table>
Forms: Prior to Your Final Semester

The following will be needed to meet University or Program objectives and will be placed in your graduate file or forwarded to Graduate Studies for your permanent record. The abbreviations are as follows:

1  Admissions & Records  
2  Coordinator  
3  Environmental Studies Office  
4  Graduate Studies Office  
5  Instructor (aka Project/Thesis Advisor)  
6  On-line  
7  Student File  
8  Thesis Committee Members (the two extra readers)

<table>
<thead>
<tr>
<th>What:</th>
<th>Type of Form:</th>
<th>Location of Form:</th>
<th>Signed by</th>
<th>Final Destination</th>
</tr>
</thead>
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<tr>
<td>ENST 597 Enrollment (Project)</td>
<td>Form</td>
<td>3 or 4</td>
<td>5 then 2</td>
<td>3 then 7</td>
</tr>
<tr>
<td>ENST 598 Enrollment (Thesis)</td>
<td>Form</td>
<td>3 or 4</td>
<td>5 then 2</td>
<td>3 then 7</td>
</tr>
<tr>
<td>ENST 599 (Independent Research)</td>
<td>Form</td>
<td>3 or 4</td>
<td>5 then 2</td>
<td>3 then 7</td>
</tr>
<tr>
<td>Extending Course Time Limit</td>
<td>Petition</td>
<td>4 or 6</td>
<td>5 then 2</td>
<td>5 then 7</td>
</tr>
<tr>
<td>Grad Check</td>
<td>Form</td>
<td>1 or 4</td>
<td>student</td>
<td>5 then 7</td>
</tr>
<tr>
<td>Grad Check Update</td>
<td>Form</td>
<td>1 or 4</td>
<td>student</td>
<td>4</td>
</tr>
<tr>
<td>GS-700 Enrollment Request</td>
<td>Request</td>
<td>4 or 6</td>
<td>2 then 4</td>
<td>4</td>
</tr>
<tr>
<td>Late Grad Check</td>
<td>Form</td>
<td>4</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Thesis Contract Agreement</td>
<td>Agreement</td>
<td>4 or 6</td>
<td>5, 8 then 2</td>
<td>4</td>
</tr>
<tr>
<td>Validating Outdated Coursework</td>
<td>Petition</td>
<td>4 or 6</td>
<td>5, 2 then 4</td>
<td>4 then 7</td>
</tr>
</tbody>
</table>
ENVIRONMENTAL STUDIES PROGRAM
PROJECT (ENST 597)
ENROLLMENT FORM

Semester _____ Fall _____ Spring _____ Date: __________

(Please Print)

Name: ________________________________________ Student ID No. __________

Address: ______________________________________ Phone: Work ____________

City: ________________ Zip: ________________ Home ________________

NOTE: You must complete this form and have it signed by your project advisor AND the Program Director before you can enroll in ENVST 597.

Project Title ________________

Project Advisor (Print Name) ____________________________

Student Signature ____________________________

Project Advisor Signature ____________________________ Date ____________

Program Director Signature ____________________________ Date ____________
ENVIRONMENTAL STUDIES PROGRAM
THESIS (ENST 598)
ENROLLMENT FORM

Semester ___ Fall ___ Spring ___ Date: ____________

(Please Print)
Name: ____________________ Student ID No. ____________________

Address: ____________________ Phone: Work ____________________

City: __________ Zip: __________ Home ____________________

NOTE: You must complete this form and have it signed by your project or thesis advisor and the Program Director before you can enroll in ENVST 598.

Thesis Advisor

and (2) members of Thesis Committee
(Print Names)

Student Signature

Thesis Advisor Signature Date

Program Director Signature Date

 SAMPLE
ENVIROMENTAL STUDIES PROGRAM
(ENST 599)
ENROLLMENT FORM

Semester __________ Fall __________ Spring __________ Date: __________

(Please Print)

Name: ___________________________ Student ID No.: ___________________________

Address: ___________________________ Phone: Work ___________________________

City: __________________ Zip: ___________ Home ___________________________

NOTE: Students enrolled in independent study classes are required to spend at least 3 hours per
week in study or research for each unit or credit. Regular contact should be made with the
supervising professor.

POLICY: ENVST 599 requires independent work or research or creative work that ends in a
paper, practical application, comprehensive exam or performance. Credits are not granted for
teaching duties, administering classes, earning stipends or internships. Coursework may not be used
as the sole basis for a 599 status. No more than 6 units of 599 can be applied toward completion of
the graduate degree.

APPROVAL: You must provide a proposal for consultation with the instructor who will oversee
your progress toward the 599 work. This proposal must also be approved by the Program
Director before you can enroll in ENVST 599.

Class Code: _______________________ 599 Ind. Grad. Research, ________ Units

PROPOSAL TITLE

Print Advisor’s Name ___________________________

Student Signature ___________________________

Instructor ___________________________ Date ___________________________

Program Director Signature ___________________________ Date ___________________________
PETITION FOR EXTENDING THE TIME LIMIT

(Please Print)

Name: ____________________________ Student ID No.: __________
Address: __________________________ Current Enrolled: □ Yes □ No
Degree Program: __________________ Expected Graduation Date: __________

I have read the policy on the back of this form and agree to the conditions therein if this petition is approved. I hereby request an extension of the time limit for completion of my master’s degree from five years to seven years for the following reasons. Please provide an explanation of the circumstances preventing completion of the degree requirements within the normal five-year limit:

________________________________________________________________________
________________________________________________________________________

Signed __________________________ Date __________

FACULTY RECOMMENDATION

I recommend the petition be □ Approved □ Denied
Signed __________________________ Date __________
Chair of Graduate Program Committee

I recommend the petition be □ Approved □ Denied
Signed __________________________ Date __________
Signature of Graduate Program Adviser

Remarks: __________________________

□ Petition Approved. All course work must be completed within seven years (14 consecutive semesters) prior to the date on which all requirements for the degree are fulfilled.

□ Petition Denied.

Signed __________________________ Date __________
Director, Graduate Studies

Original: Student File. Copies: Student, Graduate Program Adviser, Petitions File
Rev 6/01
GS700 EXTENDED EDUCATION
Enrollment Request

(Please Print or Type)
Name: ___________________________ Student ID No. ___________________________
Address: ___________________________ Currently Enrolled: □ Yes □ No
City/ZIP: ___________________________ Expected Graduation Date: __________
Phone: ___________________________ Degree Objective/ _________
E-mail Address: ___________________________ Major: ___________________________

I understand that registration in GS700 through Extended Education will meet university requirements for
maintaining continuous enrollment without access to any student or instructional services other than library and
minimal advisory assistance for the coming semester only. This request must be renewed each semester.
(See policy statement and eligibility qualifications on the back of this form.)

Student Signature: ___________________________ Date: __________

Are you an international student with F-1 or J-1 status? □ Yes □ No
International Education & Exchange must sign this request if you are in graduate school, the adviser signs off.

This certifies all qualifications for enrollment in GS700 Extended Education have been met and
registration is recommended. Graduate Program Adviser: Please check the appropriate boxes.

☐ Applied for graduation by the required deadline.
☐ Filed a request for approval of thesis date if applied to graduate in an earlier semester.
☐ Granted classification as a candidate for the degree.
☐ Enrolled in all courses required for the degree and continuing work on thesis, project or comprehensive
  exam preparation.
☐ Completion of the Graduate Writing Requirement.
☐ Previous enrollment in 596 or 597 Project or 598 Thesis as applicable.
☐ Not employed as graduate assistant/student assistant or in work-study program.
☐ Not receiving financial aid or veteran’s benefits.
☐ Coursework completed within the 5-year time limit or extension approved and courses validated.
☐ Outdated coursework beyond 7 years validated.
☐ Enrolled previous semester (includes GS700 Extended Ed enrollment).
☐ In good academic standing, i.e. not on probation.

Signed: ___________________________ Date: __________

Graduate Program Adviser

International Students: Signed: ___________________________ Date: __________
Adviser, International Education & Exchange Program

RETURN TO THE GRADUATE STUDIES OFFICE, McCARTHY HALL, ROOM 103
LATE GRAD CHECK
(GRADUATE)

UNIVERSITY PETITION

Please pay the $20.00 processing fee prior to submitting this form to the Graduate Studies Office.

Complete sections A and B only, and provide complete information in response to the questions asked. The petition will be referred to the University Records office after review in the Graduate Studies office. You will be informed of the decision by mail.

A

Social Security Number

Telephone

Area Code

Number

Degree Objective

Schedule Number

Dept./Course Number

Semester

Instructor

Date

I request:

Reason(s) the grad check was not filed by the scheduled date:

What hardship will result if this petition is denied? For example: denial of promotion, salary raise, or admission to Ph.D. program next semester?

(Continue on reverse side, if necessary)

Expected date of graduation:

Receiving financial aid

(Studen's Signature)

Type

C

Committee Decision

1. Your petition is granted.

2. Your petition is granted after cash payment of a $20 late fee. Please take this form to the cashier's office in LH-108 to complete the transaction.

3. Your petition is returned for more specific information. Please resubmit with:
   a. brief explanatory statement
   b. documentation of circumstances
   c. medical documentation

4. No action has been taken on your petition because:
   a. This can be resolved by the academic department concerned.
   b. This regulation is contained in Title 5 California Administrative Code, and is not subject to petition.
   c. Other

5. Your petition is denied. Reason for denial:
   a. Such action would violate CSUF or SCU policy on academic standards
   b. Other

Signature

Date:
ENVIRONMENTAL STUDIES PROGRAM
THEESIS CONTRACT AGREEMENT

Date of Committee Meeting: ____________________________

Student Name: ____________________________ Student ID: ____________________________

Address: ____________________________ Phone: ____________________________

City: ____________________________ E-Mail: ____________________________

THESIS TITLE: ____________________________

Student Signature

Thesis Advisor Signature

Committee Member Signature

Committee Member Signature
PETITION FOR VALIDATING OUTDATED COURSEWORK

(PLEASE PRINT)

Name: ___________________________ Student ID No: ___________________________
Address: ___________________________ Currently Enrolled: ☐ Yes ☐ No

Degree Program: ___________________________ Expected Graduation Date: ___________________________

I. TO GRADUATE PROGRAM ADVISER (Completed by student)

I request validation of the following outdated course (see other side for policy):
Dept. & Course No: ___________________________ Title: ___________________________
Units ______ Grade ______ Semester/Year ______ Take at: ___________________________

Reasons for not completing the degree within the seven-year limit:

________________________________________________________________________

__________________________
Signed

II. COMPLETED BY GRADUATE PROGRAM ADVISER

☐ Validation achieved by completion of the course.
☐ Validation achieved by completion of an equivalent course.
☐ Validation achieved by completion of an alternative method determined in consultation with the
  Graduate Studies Office. Please specify: ___________________________
☐ Validation is suggested. The course must be repeated or an additional course added to the
  study plan. If additional course, please specify: ___________________________

Signed ___________________________ Date ___________________________

III. COMPLETED BY THE VALIDATING AUTHORITY

Validation has been completed by written examination or alternative method (please specify):

Signed by Instructor ___________________________ Date ___________________________
Department ___________________________

IV. COMPLETED BY GRADUATE STUDIES OFFICE (MH-103)

☐ Petition Approved ☐ Petition Denied
Signed ___________________________ Date ___________________________

Director, Graduate Studies

Original: Student File. Copies: Student, Graduate Program Adviser, Petitions File
WHEN ARE PROJECTS DUE?
Projects are due to the Coordinator the last day of finals by 5 pm the semester you are graduating. Should you not meet this deadline you will need to register for GS-700 to maintain continuous enrollment.

WHEN ARE THESES DUE?
Due to the Thesis review and binding process, Theses must be submitted to Graduate Studies several weeks prior to the semester end. Please see the Coordinator or Graduate Studies for exact dates. Theses are due to the Coordinator and Bookstore (one to each) the last day of finals by 5 pm the semester you are graduating. Should you not meet this deadline you will need to register for GS-700 to maintain continuous enrollment.

WHAT DO I NEED TO TURN IN WHEN I SUBMIT MY PROJECT OR THESIS?
When submitting your Project or Thesis to the ENST Program, please include the following:
1. An original bound Project (spiral, comb, ring or other) or Thesis (hard bound by the University) and signed by the faculty advisor.
2. A Project/Thesis Completion Form signed by the faculty advisor and student.
3. A change of grade card should be submitted for those students who have received an “SP” for their Project/Thesis or any other course work.

HOW DO I CREATE THE COVER PAGE FOR MY PROJECT/THESIS?
The ENST Program has the cover page all students are expected to use. See next page for details.
A Project (or Thesis)
Presented to the
Faculty of
California State University, Fullerton

In Partial Fulfillment
of the Requirements for the Degree
Master of Science
In
Environmental Studies

By
Your Full Name

Approved by:

John Doe, Committee Chair
Department of XYZ

Jane Smith, Member
Department of ABC

Bill Hill, Member
Department of ABC

Projects ONLY – Delete the extra advisor signatures and add spaces to the top margin to better center the text on the page
<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th><strong>Deadline</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Change Card</td>
<td>Submit with Project/Thesis by last day of finals in your last term if you</td>
</tr>
<tr>
<td></td>
<td>received an SP in any course</td>
</tr>
<tr>
<td>Project/Thesis Completion</td>
<td>Submit with Project/Thesis by last day of finals in your last term</td>
</tr>
<tr>
<td>Summer Completion</td>
<td>Submit after spring term but prior to summer term</td>
</tr>
<tr>
<td>Thesis Approval Form</td>
<td>Submit with Thesis by last day of finals in your last term</td>
</tr>
</tbody>
</table>
The following will be needed to meet University or Program objectives and will be placed in your graduate file or forwarded to Graduate Studies for your permanent record. The abbreviations are as follows:

1  Admissions & Records
2  Coordinator
3  Environmental Studies Office
4  Graduate Studies Office
5  Instructor (aka Project/Thesis Advisor)
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<th>Signed by</th>
<th>Final Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change of Grade on Project/Thesis</td>
<td>Form</td>
<td>1 or 3</td>
<td>5 and 2</td>
<td>3</td>
</tr>
<tr>
<td>Notice of Successful Completion of Project/Thesis</td>
<td>Letter</td>
<td>3 or 5</td>
<td>5</td>
<td>2 then 7</td>
</tr>
<tr>
<td>Summer Completion</td>
<td>Petition</td>
<td>3 or 4</td>
<td>5, 2, then 4</td>
<td>4 then 7</td>
</tr>
<tr>
<td>Thesis Approval</td>
<td>Form</td>
<td>3 or 6</td>
<td>5 then 2</td>
<td>3 then 4</td>
</tr>
</tbody>
</table>
CALIFORNIA STATE UNIVERSITY, FULLERTON
Office of Admissions and Records

CHANGE OF GRADE

Student Name

LAST       FIRST       MIDDLE    SID

Department

Course Number

Grade

IN    FROM   TO    OUT

Semester Taken

Reason for change

If SP or I to grade, please indicate when grade was completed

Comments as appropriate on reverse of card:

/  /  /  

Instructor's Signature  Dept. Chair's Signature  Dean's Signature
Notification of Environmental Studies Project/Thesis Completion

Note: This form must be submitted to the Environmental Studies Program Office by the last day of final examinations week in the semester in which the degree is completed.

To: Environmental Studies Program Director
Date Received (Stamp)

Student Name: ____________________________
Student ID# ____________________________

Project/Thesis Title: ____________________________

The above-named student has completed the Project/Thesis (circle one) for the M.S. Degree in Environmental Studies.*

*Note: If student was registered in ENST 597 [Project] or ENST 598 [Thesis] in a previous semester, attach a signed change of grade card for that course, and/or for a prior or unfinished course (e.g. ENST 599 - Ind. Grad. Research) the student has completed for the degree, please check below.

[ ] change of grade card(s) attached
[ ] not applicable

Faculty Advisor Signature ____________________________ Date __________

I have ordered a bound and title-embossed copy of my Project/Thesis from the Titan Bookstore to be delivered to the Environmental Studies Program Office (H 420A).

[ ] copy of bookstore receipt attached (applies only to Theses)

Student Signature ____________________________ Date __________
PETITION FOR SUMMER COMPLETION
OF THE MASTER'S DEGREE

Name ___________________________ Student ID No. ___________________________

Address ___________________________ ___________________________
Street City/State ZIP

Since summer session is not a regular semester, the University faculty and staff may not be able to provide the courses and services you need to complete your program. Therefore, the purpose of this petition is to help you in your planning by confirming that the people and services you need will be available during the summer. Please fill out the top portion, obtain the required signatures, and return this form to the Graduate Studies Office, McCarthy Hall 103, before the end of the semester.

I request permission to complete requirements during the summer session for the degree in:

______________________________
Signed ________________________ Date ________________________

NOTE: The Graduate Studies office cannot verify satisfactory grades for study plan courses, the student's request may be impractical (e.g. thesis/project/comp exam faculty not available). It is understood that under the semester system, summer completion is not routinely possible.

☐ Approve Request. Appropriate school or department authorities anticipate being available during the summer to provide supervision and recommendations. Any course work required is currently being planned for summer offering. Required examinations can be scheduled.

☐ Approve Request on Tentative Basis Only. Uncertainties exist as to availability of appropriate personnel and/or course work.

☐ Deny Request. Unable to provide supervision, faculty support or course work during summer.

Signed ________________________ Date ________________________
Graduate Program Adviser

Signed ________________________ Date ________________________
Thesis or Project Chair

RETURN TO GRADUATE STUDIES OFFICE, McCarthy Hall 103

Rev. 6/01