## B.S. EARTH SYSTEM SCIENCE DEGREE REQUIREMENTS

Basic Requirements:
A. One course from the following:

ESS 1 $\qquad$ 3 $\qquad$ 5 $\qquad$
All of the following courses:
ESS 51 $\qquad$ 53 $\qquad$ 55
ESS $11 \overline{4 \text { OR } 115}$ 116 $\qquad$ 192
Math 2A $\qquad$ 2B $\quad$ Stats 7 $\qquad$


Physics 3A__3B_3C_3LB__3LC__OR Physics 7C___ 7E___ 7LC___
B. Additional Electives (seven courses from the following; at least 4 must be ESS courses)


Earth System Science: Any four-unit upper-division course (100-199) except 114, 115, 116, 198 or H198;
(ESS 199/H199 may be counted only once)
Chemistry: 51A, 51B/LB, $51 \mathrm{C} / \mathrm{LC}, 141$
Physics: 115A
Mathematics: 2D, 3A, 3D, 105A, 112A, 115
Mechanical and Aerospace Engineering (MAE): 91, 130A, 164
Civil and Environmental Engineering (CEE): 162, 171, 172, 176, 178
Biological Sciences: 93, 94, 98, D105, E106, E120, E150, E179, E179L, E189
Public Health: 161, 163, 167, 171, 173
Urban Planning and Public Policy (UPPP): 133, 139, 145
Computing Skills (one of the following may be counted toward the degree): ICS 31, EECS 10, MAE 10,
Physics 53, or another approved programming course
Optional Specialization in Atmospheric Science
(Courses may be used to fulfill electives in section B, where overlap exists.)
Three courses from the following: ESS 122 ___ $124 \_142 \_$198/H198/199/H199A-B-C
(ESS 198/H198/199/H199A-B-C must be focused on atmospheric research and may be counted only once)
AND One advanced tools course selected from the following: ESS 118 $\qquad$ 134 $\qquad$ 138
Optional Specialization in Oceanography
(Courses may be used to fulfill electives in section B, where overlap exists.)
Three courses from the following: ESS 130 $\qquad$ 144 $\qquad$ 148 $\qquad$ 171 $\qquad$ 198/H198/199/H199A-B-C $\qquad$
(ESS 198/H198/199/ H199A-B-C must be focused on oceanographic research and may be counted only once)
AND One advanced tools course selected from the following: ESS 118 $\qquad$ 138 $\qquad$
Optional Specialization in Hydrology and Terrestrial Ecosystems
(Courses may be used to fulfill electives in section B, where overlap exists.)
Three courses from the following: ESS 132 $\qquad$ 133 OR 140 $\qquad$ 156 $\qquad$ 198/H198/199/H199A-B-C $\qquad$
(ESS 198/H198/199/ H199A-B-C must be focused on terrestrial research and may be counted only once)
AND One advanced tools course selected from the following: ESS 118 $\qquad$ 134 $\qquad$ 138 $\qquad$
Optional Concentration in Geosciences Education with Secondary Teaching Certification
This concentration allows students pursuing the B.S. in Earth System Science to earn a bachelor's degree and complete the required course work and field experience for a California Preliminary Single Subject Teaching Credential at the same time. In addition to the major requirements listed above, all of the following must be completed:
ESS 7 OR $140 \quad$; ; Physics 20A OR 20B $\qquad$ ; Physical Sciences 5__105 $\qquad$ ;

Chemistry/Physics 193 $\qquad$ ; LPS 60
Education 55 $\qquad$ 109 $\qquad$ 143AW__ 143BW $\qquad$ 148 $\qquad$ and two quarters of Education 158 $\qquad$

# UCI SCHOOL OF PHYSICAL SCIENCES UNIVERSITY / GENERAL EDUCATION REQUIREMENTS 

NAME
STUDENT ID

## Other Colleges

## UNIVERSITY REQUIREMENTS:

English (UC ELW)
American History $\qquad$ Institutions $\qquad$

## RESIDENCY REQUIREMENTS:

36 of the final 45 units must be completed at UCI $\qquad$
UNIT REQUIREMENT: 180 units are required for graduation $\qquad$
GPA REQUIREMENT AND STANDING:
Overall GPA of 2.0 $\qquad$ GPA in major at least a 2.0 $\qquad$
GPA in upper-division major classes at least a 2.0

## TRANSFER STUDENTS:

Partial IGETC $\qquad$
Full IGETC $\qquad$
cert received? yes $\qquad$ no $\qquad$

| General Education (GE) Requirements |
| :--- |
| I. Writing (2 lower-division, 1 upper-division) |
| 1. |
| 2. |
| 3. |
| II. Science \& Technology (any 3) |
| 1. |
| 2. |
| 3. |
| III. Social \& Behavioral Sciences (any 3) |
| 1. |
| 2. |
| 3. |
| IV. Arts \& Humanities (any 3) |
| 1. |
| 2. |
| 3. |
| V. Quantitative, Symbolic and Computational Reasoning $\square$ |
| Va. |
| Vb. |
| Va or Vb. |
| VI. Language Other than English |
| 1C or equivalent |
| VII. Multicultural Studies (one course) |
| VII. International/Global Issues (one course) |
|  |


| Fall | Winter | Spring |
| :--- | :--- | :--- |
| Freshman |  |  |
| Math 2A | Math 2B | Stats 7 |
| Chem 1A | Chem 1B | Chem 1C, 1LC |
| ESS 1 | GEN ED | GEN ED |
| ESS 45 | GEN ED | GEN ED |
|  |  |  |
| Sophomore |  | ESS 55 |
| ESS 51 | ESS 53 | Phsics 3C, 3LC |
| Physics 3A | Physics 3B, 3LB | GEN ED |
| Chem 1LD | GEN ED | GEN ED |
| GEN ED | GEN ED |  |
|  |  |  |
| Junior |  | ESS Elective |
| ESS 114 | ESS 116 | ESS Elective |
| ESS 192 | Approved Elective | Elective |
| GEN ED/ Elective | GEN EDD Elective | Elective |
| Elective | Elective | Elective |
| Senior |  |  |
| ESS Elective | ESS Elective | ESS Elective |
| Approved Elective | Elective | Elective |
| Elective | Elective | Elective |
| Elective | Elective | Elective |

(sample program, your schedule may differ greatly)

ESS Department:
http://www.ess.uci.edu
Research Opportunities:
http://www.ess.uci.edu/undergrad/opportunities Course offerings:
http://www.ess.uci.edu/undergrad/coursesoffered For Enrollment questions:
https://www.ess.uci.edu/academics

