

B.S. EARTH SYSTEM SCIENCE DEGREE REQUIREMENTS

Basic Requirements:

A. One course from the following:

ESS 1 _____ 3 _____ 5 _____

All of the following courses:

ESS 51 _____ 53 _____ 55 _____
ESS 114 **OR** 115 _____ 116 _____ 192 _____

Math 2A _____ 2B _____ Stats 7 _____

Chem 1A _____ 1B _____ 1C _____; 1LC _____ 1LD _____ **OR**
Chem H2A _____ H2B _____ H2C _____; H2LA _____ H2LB _____ H2LC _____

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)

(ESS)

(ESS)

(ESS)

(ESS)

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, 51C/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, 172, 173

Urban Planning and Public Policy (UPPP): 133, 139, 145

Computing Skills (one of the following may be counted toward the degree): ICS 31, EECS10, 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 _____ 134 _____ 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 _____ 144 _____ 148 _____ 171 _____ 198/H198/199/H199A-B-C _____

(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 _____ 138 _____

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 _____ 133 **OR** 140 _____ 156 _____ 198/H198/199/H199A-B-C _____

(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 _____ 134 _____ 138 _____

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 _____; Physics 20A **OR** 20B _____; Physical Sciences 5 _____ 105 _____;

Chemistry/Physics 193 _____; LPS 60 _____

Education 55 _____ 109 _____ 143AW _____ 143BW _____ 148 _____ and two quarters of Education 158 _____

**UCI SCHOOL OF PHYSICAL SCIENCES
UNIVERSITY / GENERAL EDUCATION REQUIREMENTS**

NAME _____ STUDENT ID _____

Other Colleges _____

UNIVERSITY REQUIREMENTS:

English (UC ELW) _____ American History _____ Institutions _____

RESIDENCY REQUIREMENTS:

36 of the final 45 units must be completed at UCI _____

UNIT REQUIREMENT: 180 units are required for graduation _____

GPA REQUIREMENT AND STANDING:

Overall GPA of 2.0 _____ GPA in major at least a 2.0 _____

GPA in upper-division major classes at least a 2.0 _____

TRANSFER STUDENTS:

Partial IGETC _____

Full IGETC _____

cert received? yes _____ no _____

General Education (GE) Requirements	Fall	Winter	Spring
I. Writing (2 lower-division, 1 upper-division) <input type="checkbox"/>	Freshman		
1.	Math 2A	Math 2B	Stats 7
2.	Chem 1A	Chem 1B	Chem 1C, 1LC
3.	ESS 1	GEN ED	GEN ED
	ESS 45	GEN ED	GEN ED
II. Science & Technology (any 3) <input type="checkbox"/>	Sophomore		
1.	ESS 51	ESS 53	ESS 55
2.	Physics 3A	Physics 3B, 3LB	Physics 3C, 3LC
3.	Chem 1LD	GEN ED	GEN ED
	GEN ED	GEN ED	GEN ED
III. Social & Behavioral Sciences (any 3) <input type="checkbox"/>	Junior		
1.	ESS 114	ESS 116	ESS Elective
2.	ESS 192	Approved Elective	ESS Elective
3.	GEN ED/ Elective	GEN ED/ Elective	Elective
	Elective	Elective	Elective
IV. Arts & Humanities (any 3) <input type="checkbox"/>	Senior		
1.	ESS Elective	ESS Elective	ESS Elective
2.	Approved Elective	Elective	Elective
3.	Elective	Elective	Elective
	Elective	Elective	Elective
V. Quantitative, Symbolic and Computational Reasoning <input type="checkbox"/>	(sample program, your schedule may differ greatly)		
Va.			
Vb.			
Va or Vb.			
VI. Language Other than English <input type="checkbox"/>	ESS Department: http://www.ess.uci.edu		
1C or equivalent	Research Opportunities: http://www.ess.uci.edu/undergradrespro		
	Course offerings: http://www.ess.uci.edu/academics/courses/ course.descriptions.php		
VII. Multicultural Studies (one course) <input type="checkbox"/>	For enrollment questions: http://www.ess.uci.edu/academics/undergraduate		
VIII. International/Global Issues (one course) <input type="checkbox"/>			