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 198/199/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 198/199/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 198/199/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_____ ___

Effective Fall 2022
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 _____

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(sampling program, your schedule may differ greatly)

(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 
Enrollment questions:
https://www.ess.uci.edu/academics

Student Affairs (Academic Counseling): http://ps.uci.edu/undergraduates