



## EPS Climate Science Minor

### Unit and GPA Requirements

The minor is comprised of one lower division course (EPS 7 or 81) and a minimum of five upper-division courses from the list on the back. At least three of these upper-division courses must be EPS courses. All courses must be taken for a letter grade and a minimum overall grade-point average of 2.0 is required for the upper division courses used for the minor. At least three of the five upper division minor courses must be completed at Berkeley. Only one upper division minor course may overlap courses in your major program.

### Enrollment Procedure – Declaring the Minor and Obtaining More Details

For more information or to declare the Climate Science minor, contact the EPS undergraduate adviser, Margie Winn, at [epsua@berkeley.edu](mailto:epsua@berkeley.edu). A minor must be declared no later than one semester prior to a student's Expected Graduation Term (EGT). The deadline is the last day of RRR week. William Boos ([william.boos@berkeley.edu](mailto:william.boos@berkeley.edu)) is the faculty point of contact for any needed curriculum planning or coordination with other departments.

Please return this form to 319 McCone Hall with an unofficial printout of your transcript. Remember to bring the College of Letters and Science "Petition for Confirmation of Minor Program Completion" to 319 McCone when enrolled in the final upper division course for your minor.

Questions? See Margie Winn in 319 McCone Hall or contact her at (510) 642-5574 or [epsua@berkeley.edu](mailto:epsua@berkeley.edu).

### EPS MINOR WORKSHEET

Name \_\_\_\_\_ SID# \_\_\_\_\_

E-Mail \_\_\_\_\_ Phone \_\_\_\_\_

Minor GPA \_\_\_\_\_ Degree Expected \_\_\_\_\_ Term Completed \_\_\_\_\_

#### Lower Division

Class	Term	Units	Grade	Comments

#### Upper Division – 5 Courses (3 Must be EPS)

Class	Term	Units	Grade	Comments
1.				
2.				
3.				
4.				
5.				



## EPS Climate Science Minor

The Climate Science minor provides a coherent program of study in the fundamental mechanisms that control planetary climate. Anthropogenic climate change is a major emphasis, but students can additionally choose to focus on the much larger range of climate states that have occurred in Earth's past or that exist on other planets. Although the socioeconomic impacts of climate variability, the political systems that govern human interaction with climate, and the technology to remediate anthropogenic climate change are all important topics, this minor retains focus on the basic physics and biogeochemistry of climate. It provides students a core understanding of climate science in order to equip them to make connections with a variety of other disciplines through their respective majors or their later careers.

The Climate Science minor is well-suited to students from a broad range of science and engineering majors, who will have taken the introductory math, physics, and chemistry courses that are prerequisites for nearly all of the upper division courses of the minor.

### Required Courses and Units

The minor is comprised of one lower-division course (EPS 7 or EPS 81) and a minimum of five upper-division courses chosen from the list below. At least 3 of the upper-division courses must be EPS courses; given the set of upper-division EPS courses on the list, this constraint ensures that students will have a sufficient background in the chemistry, physics, and dynamics of climate. Program planning and confirmation should be done with the EPS Undergraduate Advisor.

All courses must be taken for a letter grade and a minimum overall grade-point average of 2.0 is required for the upper-division courses used for the minor. At least three of the five upper-division minor courses must be completed at Berkeley. Only one upper-division minor course may overlap courses in a student's major program.

#### Lower Division (select 1):

EPS 7 - Introduction to Climate Change [3]

EPS 81 - Atmospheres [3]

#### Upper Division (select 5, at least 3 must be EPS courses):

EPS 102 - History and Evolution of Planet Earth [4] (*the prerequisite of EPS 50 is expected to be waived for students who have taken EPS 7 or EPS 81 and introductory physics and calculus*)

EPS C180 - Air Pollution [3]

EPS C181 - Atmospheric Physics and Dynamics [3]

EPS C182 - Atmospheric Chemistry and Physics Laboratory [3]

EPS C183 / ESPM C170 - Carbon Science Dynamics [3]

EPS 115 - Stratigraphy and Earth History [4]

EPS 124 - Isotopic Geochemistry [4]

EPS C129 / ESPM C129 - Biometeorology [3]

EPS 103 - Introduction to Aquatic and Marine Geochemistry [4]

GEOG 142 - Climate Dynamics [4]

GEOG 143 - Global Change Biogeochemistry [4]

GEOG 185 - Earth System Remote Sensing [3]

ENE, RES 102 - Quantitative Aspects of Global Environmental Problems [4]

CIV ENG 107 - Climate Change Mitigation [3]

EPS 229 - Introduction to Climate Modeling [3] (*graduate level course, can be taken with permission of instructor*)

EPS 230 - Radiation and Its Interactions with Climate [3] (*graduate level course, can be taken with permission of instructor*)

EPS C242 - Glaciology [4] (*graduate level course, can be taken with permission of instructor*)