The UCLA Institute of the Environment and Sustainability, together with the Departments of Atmospheric and Oceanic Sciences, Civil and Environmental Engineering, Earth and Space Sciences, Ecology and Evolutionary Biology, Environmental Health Sciences and Geography, is pleased to offer an innovative dual-component degree program in Environmental Science.

The first component, the Environmental Science Major, provides students with disciplinary breadth in areas important to environmental science. The second component, a Minor in one of eight environmental science areas, provides students with focused, disciplinary depth in an area of their choosing. Both components of the program must be completed to receive the degree.

Graduates of this program will be fully prepared to enter a career in environmental science or to continue their education in a graduate degree program.

I. Environmental Science Major

Preparation for the Major (56-57 units)

- Environment M10 or Earth and Space Sciences 1

*E&SS 1 is required for the Earth & Environmental Science, Geology and Geophysics and Planetary Physics minors, and recommended for students who completed the Global Environment GE cluster. All other students should take Environment M10.*

Note: Where two options are listed, the first option is recommended.

- Chemistry 14A/B/BL or Chemistry 20A/B/L
- Life Science 1 and Life Science 2
- Mathematics 3A/B or Mathematics 31A/B
- Physics 6A/B or Physics 1A/B
- Statistics 12 or Statistics 13

Two additional courses from the following four choices, depending on the Minor/Concentration selected (see back side of this sheet):

- Chemistry 14C or Chemistry 30A
- Mathematics 3C or Mathematics 32A
- Physics 6C or Physics 1C
- Life Science 3

Environmental Science (24-26 units)

Choose one course in each of six environmental science areas, with no more than two courses from any one department:

- **Atmospheric & Water Science**: Atmospheric and Oceanic Sciences 101, 103, M105, 130, Earth and Space Sciences C132, 153, Geography 105
- **Climate Science**: Atmospheric and Oceanic Sciences 102, Geography 102, 104, M106, M131
- **Earth Science**: Earth and Space Sciences 101, C113, 119, 135, 139, 150, Geography 100, 101, M107, M127/177
- **Ecology & Conservation Biology**: Ecology and Evolutionary Biology 100, 109, 116, 151A, 154, Environment 121, Geography 111, 113
- **Environmental Management**: Environment M134, M135, M155, 157, 160, 163, 166, Public Policy C115
- **Pollutant Sources, Treatment, Fate and Transport**: Atmospheric and Oceanic Sciences 104, Chemical Engineering C118, Civil and Environmental Engineering 153, 154, 166, Environmental Health Sciences 100, C125, C152D, C164

Social Science-Humanities (8 units)

One course in each of two areas:

- **Policy and Politics**: Environment 138, M155, M162, M164, 166, Political Science M122B
- **Humans and the Environment**: Environment M132, M153, Geography M128, 135, M137, 145, 150, M153, 156, Philosophy 125, Sociology M115

Environmental Science Colloquium (4 units)

4 units from Environment 170, 185A, 188B (graded)

Environmental Science Practicum (14 units)

Environment 180A/B/C
II. Minor/Concentration

Students choose one of eight minors/concentrations, each associated with a particular department.

Students will normally choose their minor/concentration by the end of their second year. Students choosing one of the six minors must, with assistance from Institute of the Environment staff, apply to the associated department to be accepted into the minor program.

A maximum of two courses from this requirement may be applied towards the Environmental Science major or any other College major or minor.

**Note: The courses listed here may be a subset of those approved for the departmental minor, so be sure to follow the course requirements listed below.

Atmospheric and Oceanic Sciences
Minor, Dept. of Atmospheric and Oceanic Sciences
Additional preparation required: Mathematics 3C or 32A and Physics 6C or 1C or Chemistry 14C or 30A
Requirements: (7 courses, 28-31 units, two course overlap possible)
- At least two from Atmospheric and Oceanic Sciences 101*, 102*, 103*, 104*, M105*
- Up to five from Atmospheric and Oceanic Sciences C110, C115, 130*, 145, 150, C160, C170, Chemistry 110A

Conservation Biology
Minor, Dept. of Ecology and Evolutionary Biology
Additional preparation required: Chemistry 14C or 30 A and Life Science 3
Requirements: (7-9 courses, minimum 28 UD units, two course overlap possible)
- Life Science 1, Ecology and Evolutionary Biology 100*, and 116* (or Environment 121*)
- Four to six (minimum 19 units) from Ecology and Evolutionary Biology 101, 103, 105, 109, 109L, 111, 112, 114A, 122, 129, 151A*, 154*, 176, 180 (consult EEB for applicability of selected Geography courses)

Environmental Engineering
Minor, Dept. of Civil and Environmental Engineering
Additional preparation required: Mathematics 3C or 32A and Physics 6C or 1C or Chemistry 14C or 30A
Requirements (6 courses, 24 units, one course overlap possible)
- Civil and Environmental Engineering 153*
- Five from Civil and Environmental Engineering 151, 154*, 155, 156A, M166*, Chemical Engineering C118*, Environmental Health Sciences C125*, C164*

Environmental Health
Concentration, Dept. of Environmental Health Sciences
Additional preparation required: Chemistry 14C or 30 A and Life Science 3
Requirements (6 courses, 24 units, one course overlap possible)
- Environmental Health Sciences 100* and C135
- Epidemiology 100
- Three from Chemistry 153A; Environmental Health Sciences C125*, C140, C152D*, C157, C164*

Environmental Systems and Society
Minor, Institute of the Environment and Sustainability
Additional preparation required: Two from Chemistry 14C or 30 A, Mathematics 3C or 32A, Physics 6C or 1C, Life Science 3
Requirements (7 courses, 28-30 units, two course overlap possible)
If declared prior to Winter 2011:
- Two from Astronomy 3, Earth and Space Sciences 15, 16, 20, Ecology and Evolutionary Biology 13, 25, Environment M10*, 14
- Five from Environment course list below.
If declared Winter 2011 or later:

Geography/Environmental Studies
Minor, Dept. of Geography
Additional preparation required: Two from Chemistry 14C or 30 A, Mathematics 3C or 32A, Physics 6C or 1C, Life Science 3
Requirements (7 courses, 30 units, two course overlap possible)
- Geography 5
- One from Geography 1, 2, 3, 4, 6
- Two additional upper division Geography courses, excluding those from the preceding list and courses 190-199

Earth and Environmental Science
Minor, Dept. of Earth and Space Sciences
Additional preparation required: Mathematics 3C or 32A and Physics 6C or 1C or Chemistry 14C or 30A
Requirements (7 courses, 30 units, two course overlap possible)
- Earth and Space Sciences 1, and one course from 5, 13, 15, or 61.
- Five from Earth and Space Sciences 101, 112, C113, 139, 150, 153.