

# HOW TO CREATE YOUR OWN ENVIRONMENTAL EMPHASIS WITHIN THE ES MAJOR

*ENVIRONMENTAL STUDIES, UCSB*

[2024]

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## **PLEASE READ FIRST PAGE BEFORE SCROLLING DOWN**

Both the B.A. and B.S. degrees in Environmental Studies offer a flexible structure within the upper-division Environmental Studies Electives (Area B) and Outside Concentration (Area C) granting students the freedom to choose courses from ES and various departments across the campus that best fit their individual educational goals and desires. This information sheet provides a **few examples** of UCSB courses crafted into themed emphases, or areas of concentration, popular among Environmental Studies students to illustrate how one can personalize their course selection. While the emphases below are **suggestive** and can be helpful to students planning their upper division coursework, they are **not mandatory**. Students are allowed to select courses they feel best fits their personal interests and create their own unique interdisciplinary theme. Before deciding on an emphasis students are encouraged to speak with an [ES Academic Advisor](#) (Bren Hall 4L, Rms. 4312 or 4313) to make sure they understand the major requirements and their options.

### **IMPORTANT NOTES TO CONSIDER:**

1. While pursuing an environmental emphasis utilizing Areas B and C can help prepare students for a specific field or profession, it will not be considered a formal emphasis by UCSB and will not be officially noted on one's diploma or transcripts. However, students can highlight their personalized focus/concentration on their resume and cover letter.
2. An [ES Major Degree Petition](#) justifying a coherent theme will be required for any combination of UD courses from more than one academic department or program used to fulfill the Area C Outside Concentration (this includes study abroad and field studies courses).
3. Some courses listed in these example emphases may not be regularly offered. Students are encouraged to check with the courses' home department to find out when they will be next taught.
4. Students are responsible for knowing individual course prerequisites and restrictions before enrollment. Departmental "major only" restrictions may limit options for Area C courses, so do your research! You can check course requirements via UCSB's online [General Catalog](#) or on GOLD.

### **Quick Review of ES Degree's Upper-Division Requirements:**

**Area B - Upper-division ES Electives:** Students are required to take 28 units for the ES B.A. and 32 for the B.S. degree of upper-div ES courses numbered 100 to 199 and not used to fulfill Area A requirements. For the B.S. a minimum of 20 of the 32 units must come from a list of STEM related ES courses listed under Area B-1. See the current [B.S. major requirement sheet](#) for an updated list of these courses. The remaining 12 units (B-2 requirement) can be any ES course not being used in Areas A or B-1.

**Area C - Outside Concentration:** 16 units required for both degrees, fulfilled by any of the following options:

1. Any 16 units from one UCSB department or program. For the B.A. it can come from any College of L&S department. B.S. majors are restricted to courses from one of the following STEM departments: Chemistry & Biochemistry, EEMB and MCDB (Bio), Earth Sciences, Geography (only courses within the B.S. Physical Geog. major), Math, Statistics, Physics, or Psychological & Brain Sci.
2. Completion of a double major or official minor (the 16 units can't overlap with Area A or B). For B.S. it must be from one of the above STEM depts. (Spatial Studies minors must consult an ES Advisor).
3. Combination of any 16 UD units outside of ES to create a unique interdisciplinary emphasis. B.S. majors are limited to courses from one of the STEM departments noted above and may include upper-division transfer work such as environmental field studies or study abroad units. A petition is required.

## EXAMPLES OF INTERDISCIPLINARY ENVIRONMENTAL EMPHASES:

**REMEMBER:** The following list highlights just some popular examples of interdisciplinary environmental emphases. These are only a few of the many combinations of upper-division courses a student may use to create an emphasis. Students are encouraged to browse the latest version of the [UCSB General Catalog](#) to search for newly added courses that may be suitable for one's personal emphasis/concentration.

An asterisk "\*" before a course indicates it's cross-listed with a second department. One can enroll in the course from either department and use it for Area B or C, but not both simultaneously. You can see the list of all ES cross-listed courses [here](#).

### Human-Environmental Health (BS or possibly BA degree)

#### AREA B

ENV S 112 – World Population, Policies, and the Env.  
 ENV S 120A/B – Environmental Toxicology  
 ENV S 121 – Contaminants of Emerging Concern  
 ENV S 129 – Ecopsychology  
 ENV S 142 – Microbes and the Human Environment  
 ENV S 147 – Air Quality and the Environment  
 \* ENV S 162 – Environmental Water Quality  
 ENV S 165A/B – Env. Impact Analysis  
 \* ENV S 168 – Aqueous Transport of Pollutants  
 \* ENV S 169 – Tracer and Containment Hydrology  
 \* ENV S 171 – Ecosystem Processes  
 ENV S 185 – Human Environmental Rights

#### AREA C

ANTH 130 – Intern't'l Develop. and Population Health  
 ANTH 138 – Anthropology of Environmental Health  
 ANTH 171 – Evolutionary Medicine  
 ANTH 175 - Medical Anthropology  
 AS AM 159 – Env. Justice and Community Health  
 BL ST 154 – Env. Racism and Env. Justice  
 CHEM 109A/B/C – Fundamentals in Organic Chemistry  
 CHEM 123 – Fundamentals of Environmental Chemistry  
 COMM 148 – Risk Communication  
 FEMST 130 – Feminist Perspectives on Health  
 GEOG 152 – Health Geography  
 HIST 110 – History of Public Health  
 HIST 110D – Diseases in History  
 MCDB 101A/B – Molecular Genetics  
 MCDB 103/L – Cell Biology  
 MCDB 110 – Principles of Biochemistry  
 MCDB 111 – Human Physiology  
 MCDB 132 – Bacterial Pathogenesis  
 MCDB 133 - Molecular and Cellular Immunobiology  
 MCDB 139 - Medical Microbiology  
 PSY 159 – Health Psych  
 RGST 156BE – Bio-Medical Ethics  
 RGST 193B – Religion and Healing in a Global Perspective  
 SOC 176A – Sociology of Global Health, HIV/AIDS, & Other Infectious Diseases

### Environmental Law and Politics (BA degree)

#### AREA B

\* ENV S 1080 – History of the Oceans  
 ENV S 112 – World Population, Policies, and the Env.  
 ENV S 116 – Sustainable Communities  
 ENV S 117 – Transition to a Low Carbon Society  
 ENV S 125A/B – Principles of Env Law/Climate Law  
 ENV S 139 – Business and Environment  
 ENV S 163B – Global Water Resources: Mgt. and Policy  
 \* ENV S 175 – Env. Economics (= ECON 115)  
 \* ENV S 176 – Energy Politics and Policy  
 ENV S 176A/B – Water Policy/Adv. Water Policy  
 \* ENV S 177 – Comparative Env Politics  
 \* ENV S 178 – Politics of the Env (= POL S 175)  
 \* ENV S 179 – Natural Resource Econ (= ECON 122)

#### AREA C

AS AM 159 – Env. Justice and Community Health  
 BL ST 129 – Black Cities: Spatial Politics of Violence, Power and Resistance  
 ECON 117A – Law and Economics  
 ECON 189 – Business Law and Ethics in Accounting  
 GLOBL 161 – Global Environmental Policy and Politics  
 GLOBL 174 – Global Perspectives on Env. and Society  
 HIST 173T - American Environmental History  
 HIST 158A - Racism, Political Economy, and Public Policy in Modern U.S. History  
 HIST 172A/B – Politics and Public Policy in the U.S.  
 HIST 174A/B/C – Wealth and Poverty in America  
 PHIL 143 - Philosophy of Law

<p>ENV S 185 – Human Environmental Rights  ENV S 188 – Ethics in the Anthropocene</p>	<p>POL S 110ET – Environmental Political Theory  POL S 137 – Politics of Economic Development  POL S 140 – Water Politics  POL S 153 – Political Interest Groups  POL S 162 – Urban Government and Politics  POL S 176 - Energy Politics and Policy  SOC 134G – Green Movements and Green Parties  SOC 173 - Sociology of Law  WRIT 107L – Legal Writing</p>
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**Environmental Justice and Social Inequity (BA degree)**

**AREA B**

\* ENV S 108O – History of the Oceans  
ENV S 112 – World Population, Policies, and the Env.  
ENV S 116 – Sustainable Communities  
ENV S 125A/B – Principles of Env Law/Climate Law  
ENV S 129 – Ecopsychology  
ENV S 130A – Un-naturalizing Disasters: Risks, Vulnerability, and Resilience  
ENV S 130B – Global Tourism and Env. Justice  
ENV S 130C – Aquatic Food and Resource Management  
\* ENV S 130SD – World in 2050: Systemic Alternatives  
\* ENV S 134CJ – Climate Justice  
\* ENV S 134EC – Earth in Crisis  
ENV S 146 – Animals in Human Society  
\* ENV S 149 – Food, Ag, and the Env. (= GEOG 161)  
ENV S 150 - Agroecology  
\* ENV S 151 – Env. Anthropology (= ANTH 152)  
ENV S 155 – Built World: Infrastructure & Env. Change  
\* ENV S 175 – Environmental Economics  
\* ENV S 177 – Comparative Environmental Politics  
\* ENV S 178 – Politics of the Env (= POL S 175)  
ENV S 180 – Global Environmental Movements  
ENV S 181 – Power, Justice, and the Environment  
ENV S 183 – Film, Representation, and the Environment  
ENV S 184 – Gender and the Environment  
ENV S 185 – Human Environmental Rights  
ENV S 186 – Development, Displacement and the Env.  
ENV S 188 – Ethics in the Anthropocene  
ENV S 189 – Religion and Ecology in the Americas  
ENV S 193CS – Citizen and Community Science  
\* ENV S 193WL – Wild Literature in Urban Landscapes (= COMPL 186WL)

**AREA C**

ANTH 110 – Science Technology and Society  
ANTH 111 – The Anthropology of Food  
ANTH 113 – Indigenous People and the Nation State in America  
ANTH 125 – Anthropology of Gender  
ANTH 130 – Intern’tl Develop. and Population Health  
ANTH 138 – Anthropology of Environmental Health  
ANTH 145 – Anthropological Demography and Life History  
ANTH 172 – Colonialism and Power  
AS AM 159 – Env. Justice and Community Health  
BL ST 154 – Env. Racism and Env. Justice  
COMM 108 - Corporate Social Responsibility  
COMM 142 – Power, Dominance and Communication  
COMM 168 – Working with Communities to Make Change  
ECON 114A / B – Economic Development  
ENGL 122EA - Environmental Activism  
GEOG 109 – Economic Geography  
GEOG 141A – Population Geog./Development/ Policy  
GLOBL 111 – Human Rights and World Order  
GLOBL 124 – Global Conflict  
GLOBL 130 – Global Economy and Development  
GLOBL 140 – Global Racial Justice  
GLOBL 161 – Global Environmental Policy and Politics  
GLOBL 173 – Energy in Global Societies  
GLOBL 174 – Global Perspectives on Env. and Society  
HIST 158A - Racism, Political Economy, and Public Policy in Modern U.S. History  
POL S 117 – Social Movement Politics  
POL S 132 – Politics of the Poor  
POL S 146 – Globalization and Politics  
POL S 147 – Politics in Developing Countries  
RGST 156EE – Environmental Ethics  
SOC 122GI – Global Inequities  
SOC 126 – Urban Society  
SOC 130EV – Eco Vista: Creating Systemic Alternatives  
SOC 130GR – Globalization and Resistance  
SOC 130SG – Sociology of Globalization  
SOC 134 – Social Movements  
SOC 134A – Activism  
SOC 134G – Green Movements and Green Parties  
SOC 134GC – Globalization and Crisis  
SOC 145 – Social Inequalities

**Food, Agriculture, and the Environment (BS or BS degree)****AREA B**

ENV S 112 – World Population, Policies, and the Env  
 \* ENV S 114A/B – Soil Science/ Soil Classification  
 ENV S 116 – Sustainable Communities  
 ENV S 120A/B – Intro and Advanced Env. Toxicology  
 ENV S 121 – Contaminants of Emerging Concern  
 ENV S 130C – Aquatic Food and Resource Management  
 \* ENV S 134EC – Earth in Crisis  
 ENV S 135A/B – Principles and Advanced Env. Planning  
 ENV S 142 – Microbes and the Human Environment  
 ENV S 146 – Animals in Human Society  
 ENV S 148 - Transforming Food Systems  
 \* ENV S 149 – Food, Ag, and the Env. (= GEOG 161)  
 ENV S 150 - Agroecology  
 \* ENV S 151 – Env. Anthropology (= ANTH 152)  
 \* ENV S 152 – Applied Marine Ecology  
 ENV S 154 – GIS for Env. Applications  
 ENV S 155 – Built World: Infrastructure & Env. Change  
 \* ENV S 162 – Environmental Water Quality  
 ENV S 163A – Global Water Resources: Supply & Demand  
 ENV S 163B – Global Water Resources: Mgt. and Policy  
 ENV S 171 - Ecosystem Processes  
 ENV S 179 – Natural Resources Econ (= ECON 122)  
 ENV S 193EB – Ethnobotany: Human Use of Plants  
 ENV S 193AF - Ancestral Foods  
 ENV S 193TK - Traditional Ecological Knowledge

**AREA C**

ANTH 103 – Human-Wildlife Interactions  
 ANTH 110 – Science Technology and Society  
 ANTH 111 – The Anthropology of Food  
 ANTH 123 – Feeding Ecology of Primates and Humans  
 ANTH 129MG - Behavioral Ecology of Hunter Gatherers  
 ANTH 162 – Prehistoric Food Production  
 EEMB 127/127L – Plant Biology and Biodiversity/Lab  
 EEMB 140/140L – General Plant Ecology/Lab  
 EEMB 157C – Plant Physiology  
 GEOG 110 – Introduction to Meteorology  
 GEOG 140 – Environmental Impacts in Human History  
 GLOBL 174 – Global Perspectives on Env. and Society  
 HIST 193F – Food in World History

**Climate Change (BA or BS degree)****AREA B**

ENV S 105 – Solar and Renewable Energy  
 ENV S 112 – World Population, Policies, and the Env  
 ENV S 116 – Sustainable Communities  
 ENV S 117 – Transition to a Low Carbon Society  
 \* ENV S 122CC – Rhetoric of Climate Change  
 ENV S 130A – Risks, Vulnerability, Resilience, and Disasters  
 ENV S 130C – Aquatic Food and Resource Management  
 \* ENV S 130SD – World in 2050: Systemic Alternatives  
 \* ENV S 133 – Biodiversity and Conservation Biology  
 \* ENV S 134EC – Earth in Crisis  
 \* ENV S 134CJ – Climate Justice  
 \* ENV S 138 – Water and Society (= ANTH 147)  
 ENV S 140 – Fire in Western USA Ecosystems  
 ENV S 141 – Chemistry of Global Change  
 \* ENV S 149 – Food, Ag, and the Env. (= GEOG 161)  
 \* ENV S 167 – Biogeography: Plant & Animal Distribution  
 ENV S 185 – Human Environmental Rights  
 ENV S 188 – Ethics in the Anthropocene

**AREA C**

CHEM 123 – Fundamentals of Environmental Chemistry  
 EARTH 105 – Earth's Climate: Past and Present  
 EARTH 106 – Introduction to Climate Modelling  
 EARTH 117 – Earth Surface Processes and Landforms  
 EARTH 124IG - Introduction to Geochemistry  
 EARTH 130 – Global Warming - Science and Society  
 EARTH 161 – Earth Resources, Energy & Environment  
 EEMB 158 – Climate Change Impacts on Marine Ecosystems  
 EEMB 155CC – Global Change Biology  
 EEMB 179 – Ecological Modeling  
 EEMB 194GC - Global Change and Ecology  
 GEOG 110 – Intro to Meteorology  
 GEOG 111C – Smart Green Cities  
 GEOG 115A/B/C – Intro to Remote Sensing  
 GEOG 119 – Climate Change and its Consequences  
 GEOG 131 - Mountain Weather and Climate  
 GEOG 133 – Tropical Meteorology  
 GEOG 134 – Earth System Science  
 GEOG 140 – Environmental Impacts in Human History  
 GEOG 142 – Global Biogeochemical Cycles  
 GEOG 158 – Intro to Marine Resources  
 GEOG 163 – Ocean Circulation  
 GEOG 166 - Ocean Carbon Cycle and Climate

GEOG 175 – Measuring our Environment  
 GEOG 176A/B/C – Intro to Geographic Info. Systems  
 GLOBL 161 – Global Environmental Policy and Politics  
 GLOBL 173 – Energy in Global Societies  
 GLOBL 174 – Global Perspectives on Env. and Society

**Urban, Regional and Environmental Planning** (*BA or possibly BS degree*)

**AREA B**

**AREA C**

ENV S 112 – World Population, Policies, and the Env  
 ENV S 116 – Sustainable Communities  
 ENV S 117 – Transition to a Low Carbon Society  
 ENV S 118 – Industrial Ecology: Designing for the Env.  
 ENV S 125A/B – Principles of Env Law/Climate Law  
 ENV S 130A – Risks, Vulnerability, Resilience, and Disasters  
 ENV S 130SD – World in 2050: Systemic Alternatives  
 ENV S 135A/B – Principles and Advanced Env. Planning  
 ENV S 136 – Green Works  
 \* ENV S 136O – Sustainable Architecture  
 \* ENV S 138 – Water and Society (= ANTH 147)  
 \* ENV S 149 – Food, Ag, and the Env. (= GEOG 161)  
 \* ENV S 151 – Env. Anthropology (= ANTH 152)  
 ENV S 155 – Built World: Infrastructure & Env. Change  
 ENV S 159 - America’s Public Lands Waters: Law/Policy  
 ENV S 165A/B – Env. Impact Analysis/Adv. Analysis  
 ENV S 172 –Waste Management  
 \* ENV S 176 – Energy Politics and Policy  
 \* ENV S 178 – Politics of the Env (= POL S 175)  
 ENV S 185 – Human Environmental Rights  
 ENV S 187 - Green Building Design & Operations  
 ENV S 193CE – Circular Economy  
 ENV S 193SI – Sustainability and Innovation

ARTHI 136C – Architecture of the United States  
 ARTHI 136I – The City in History  
 ARTHI 186Y – Seminar in Architecture and Environment  
 BL ST 129 – Black Cities: Spatial Politics of Violence, Power, and Resistance  
 GEOG 108 – Urban Geography  
 GEOG 109 - Economic Geography  
 GEOG 111A/B – Transportation Planning and Modeling  
 GEOG 111C – Smart Green Cities  
 GEOG 115A/B/C – Intro to Remote Sensing  
 GEOG 130 – The Urban Environment  
 GEOG 141A– Population Geog./Development/ Policy  
 GEOG 176A/B/C – Intro to Geographic Info. Systems  
 GEOG 190 - Location Theory and Modeling  
 HIST 178A – American Urban History  
 POL S 140 - Water Politics  
 POL S 162 – Urban Government and Politics  
 SOC 118GK - Sociology of Garbage  
 SOC 126 – Urban Society  
 SOC 130EV – Eco Vista: Creating Systemic Alternatives

**Environmental Quality: Air, Water, and Soil** (*BS or possibly BA degree*)

**AREA B**

**AREA C**

ENV S 113 – Engineering and Environmental Geology  
 \* ENV S 114A/B – Soil Science/ Soil Classification  
 ENV S 118 – Industrial Ecology: Designing for the Env.  
 ENV S 120A – Environmental Toxicology  
 ENV S 120B – Advanced Environmental Toxicology  
 ENV S 121– Contaminants of Emerging Concern  
 ENV S 125A/B – Principles of Env Law/Climate Law  
 ENV S 134 – Coastal Processes and Management  
 \* ENV S 138 – Water and Society (= ANTH 147)  
 ENV S 140 – Fire in Western USA Ecosystems  
 ENV S 141 – Chemistry of Global Change  
 ENV S 142 – Microbes and the Human Environment  
 \* ENV S 144 – Form, Process, and Human Use of Rivers  
 ENV S 147 – Air Quality and the Environment  
 \* ENV S 149 – Food, Ag, and the Env. (= GEOG 161)  
 \* ENV S 152 – Applied Marine Ecology  
 \* ENV S 162 – Environmental Water Quality  
 ENV S 163A - Global Water Resources: Supply & Demand  
 ENV S 163B - Global Water Resources: Mgt. and Policy

COMM 148 – Risk Communication  
 CHEM 109A/B/C – Fundamentals of Organic Chemistry  
 CHEM 112A/B/C – Biophysical Chemistry  
 CHEM 113A/B/C – Physical Chemistry  
 CHEM 123 – Fundamentals of Environmental Chemistry  
 CHEM 150 – Analytical Chemistry  
 EARTH 114 – Geomaterials  
 EARTH 117 – Earth Surface Processes and Landforms  
 EARTH 124IG - Intro to Geochemistry  
 EARTH 125 – Field Methods in Hydrology  
 EARTH 176 – Geological Applications of GIS  
 EEMB 142A – Aquatic Communities  
 EEMB 142B/C –Env. Processes in Oceans and Lakes  
 EEMB 148 – Ecology of Running Waters  
 GEOG 104 – Physical Geography of the World’s Oceans  
 GEOG 110 – Intro to Meteorology  
 GEOG 112 – Environmental Hydrology  
 GEOG 115A/B/C – Intro to Remote Sensing  
 GEOG 116 – Groundwater Hydrology (= EARTH 173)  
 GEOG 132 – Coastal Pollution

<p>ENV S 164 – Intro to Collecting, Exploring Water Data  ENV S 165A/B – Environmental Impact Analysis  * ENV S 168 – Aqueous Transport of Pollutants  * ENV S 169 – Tracer and Containment Hydrology  * ENV S 171 – Ecosystem Processes  ENV S 176A/B – Water Policy/Adv. Water Policy  * ENV S 178 – Politics of the Env (= POL S 175)  * ENV S 179 – Natural Resources Econ (= ECON 122)  ENV S 193DS - Intro to Environmental Data Science</p>	<p>GEOG 134 – Earth System Science  GEOG 137 – Quantitative Geomorphology  GEOG 140 – Environmental Impacts in Human History  GEOG 142 – Global Biogeochemical Cycles  GEOG 158 – Introduction to Marine Resources  GEOG 162 – Water Quality  GEOG 163 - Ocean Circulation  GEOG 175 – Measuring our Environment  GEOG 176A/B/C – Intro to Geographic Info. Systems  MCDB 110 – Principles of Biochemistry</p>
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**Energy and Sustainability (BS or possibly BA degree)**

**AREA B**

<p>ENV S 105 – Solar and Renewable Energy  ENV S 116 – Sustainable Communities  ENV S 117 – Transition to a Low Carbon Society  ENV S 118 – Industrial Ecology: Designing for the Env.  ENV S 120A – Environmental Toxicology  ENV S 120B – Advanced Environmental Toxicology  ENV S 125A/B – Principles of Env Law/Climate Law  ENV S 130SD – World in 2050: Systemic Alternatives  ENV S 135A/B – Principles and Advanced Env. Planning  ENV S 136 – Green Works: Exploring Tech &amp; Sustain.  * ENV S 138 – Water and Society (= ANTH 147)  ENV S 147 – Air Quality and the Environment  * ENV S 149 – Food, Ag, and the Env. (= GEOG 161)  ENV S 165A/B – Environmental Impact Analysis  ENV S 172 – Integrated Materials and Waste Mgt.  * ENV S 176 – Energy Politics and Policy  ENV S 176A/B – Water Policy/Adv. Water Policy  * ENV S 178 – Politics of the Env (= POL S 175)  * ENV S 179 – Natural Resources Econ (= ECON 122)  ENV S 187 - Green Building Design &amp; Operations  ENV S 193CE – Circular Economy  ENV S 193SI – Sustainability and Innovation</p>
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**AREA C**

<p>CHEM 109ABC – Fundamentals of Organic Chemistry  CHEM 113ABC – Physical Chemistry  CHEM 123 – Fundamentals of Environmental Chemistry  CHEM 150 – Analytical Chemistry  COMM 108 - Corporate Social Responsibility  EARTH 130 – Global Warming - Science and Society  EARTH 161 – Earth Resources, Energy, &amp; Environment  GEOG 108 – Urban Geography  GEOG 111A/B – Transportation Planning and Modeling  GEOG 111C – Smart Green Cities  GEOG 119 – Climatic Change and Its Consequences  GEOG 137 – Quantitative Geomorphology  GEOG 140 – Environmental Impacts in Human History  GEOG 158 – Intro to Marine Resources  GEOG 175 – Measuring our Environment  GLOBL 173 – Energy in Global Societies  GLOBL 174 – Global Perspectives on Env. and Society  SOC 118CW – Consumption, Waste, and the Env.  TMP 120 – Fundamentals in Business Strategy  TMP 122 – Entrepreneurship  TMP 130 – Operations Management</p>
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*Recommended: Completion of as many lower-division physics (preferably PHYS 1, 2, 3, 4, 5 series) and calculus (MATH 3A, 3B, 4A & 4B etc.) courses as possible for Engineering field*

**History of Human-Environmental Relations (BA degree)**

**AREA B**

<p>ENV S 103 – Nature Spirituality  * ENV S 108O – History of the Oceans  * ENV S 108W – Wildlife in America  ENV S 112 – World Population, Policies, and the Env  ENV S 118 – Industrial Ecology: Designing for the Env  * ENV S 119 – Ecology/Management of CA Wildlands  * ENV S 122LE – Literature and the Env  * ENV S 122NE – Nature and the Env  ENV S 127A – Foundations of Environmental Education  ENV S 129 – Ecopsychology  ENV S 130A – Risks, Vulnerability, Resilience, and Disasters  ENV S 130B – Global Tourism and Env. Justice  ENV S 130C – Aquatic Food and Resource Management  * ENV S 130SD – World in 2050: Systemic Alternatives  ENV S 139 – Business and the Environment</p>
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**AREA C**

<p>ANTH 103 – Human-Wildlife Interactions  ANTH 109 – Human Universals  ANTH 110 – Science Technology and Society  ANTH 111 – The Anthropology of Food  COMM 160EC – Ecocultural Communication  GEOG 140 – Environmental Impacts in Human History  GEOG 141A – Population Geog./Development/ Policy  GLOBL 161 – Global Environmental Policy and Politics  GLOBL 174 – Global Perspectives on Env. and Society  HIST 106B – The Scientific Revolution, 1500 to 1800  HIST 106C – History of Modern Science  HIST 108 – Science, Tech, and Contemporary Culture  HIST 110D – Diseases in History  HIST 117E – Society and Nature in the Middle Ages  HIST 178A – American Urban History</p>
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<p>ENV S 143 – Endangered Species Management  ENV S 146 – Animals in Human Society  * ENV S 149 – Food, Ag, and the Env. (= GEOG 161)  * ENV S 151 – Env. Anthropology (= ANTH 152)  ENV S 160 – American Environmental Literature  * ENV S 173 – American Environmental History  * ENV S 176 – Energy Politics and Policy  * ENV S 178 – Politics of the Env (= POL S 175)  ENV S 180 – Global Environmental Movements  ENV S 181 – Power, Justice, and the Environment  ENV S 183 – Films of the Natural and Human Env.  ENV S 184 – Gender and the Environment  ENV S 185 – Human Environmental Rights  ENV S 188 – Ethics in the Anthropocene  ENV S 189 – Religion and Ecology in the Americas</p>	<p>HIST 179A/B – Native American History  HIST 193F – Food in World History  POL S 146 – Globalization and Politics  POL S 170 – Public Policy Analysis  POL S 177 – Comparative Environmental Politics  RG ST 128 – Religious Environmentalism in the Anthropocene: Asia &amp; U.S.  RGST 156 EE – Environmental Ethics  SOC 105E – Environmental Sociology  SOC 130ST – Development and its Alternatives  SOC 130GR – Globalization and Resistance</p>
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**Environmental Economics and Policy (BA degree)**

**AREA B**

ENV S 116 – Sustainable Communities  
ENV S 117 – Transition to a Low Carbon Society  
ENV S 118 – Industrial Ecology: Designing for the Env  
ENV S 125A/B – Principles of Env Law/Climate Law  
\* ENV S 130SD – World in 2050: Systemic Alternatives  
ENV S 130B – Global Tourism and Env. Justice  
ENV S 130C – Aquatic Food and Resource Management  
ENV S 136 – Green Works: The Search for Sustainability  
ENV S 165A/B – Environmental Impact Analysis  
ENV S 172 – Waste Management  
\* ENV S 175 – Environmental Economics (prereq 10A)  
\* ENV S 178 – Politics of the Env (= POL S 175)  
\* ENV S 179 – Natural Resources Econ (= ECON 122)  
ENV S 180 – Global Environmental Movement  
ENV S 185 – Human Environmental Rights  
ENV S 193CE – Circular Economy  
ENV S 193SI – Sustainability and Innovation

**AREA C**

COMM 108 – Corporate Social Responsibility  
ECON 100B – Intermediate Microeconomic Theory  
ECON 101 – Intermediate Macroeconomic Theory  
ECON 114 – Economic Development  
ECON 174 – Negotiations  
ECON 176 – Experimental Economics  
GEOG 109 - Economic Geography  
GLOBL 123 – Intro. to International Political Economy  
GLOBL 130 – Global Economy and Development  
GLOBL 136 – Global Economic Imbalances  
GLOBL 161 – Global Environmental Policy and Politics  
HIST 167E – Studies in Work, Labor, and Political Economy  
HIST 172A/B– Politics and Public Policy in the U.S.  
POL S 146 – Globalization and Politics  
POL S 162 – Urban Government and Politics  
POL S 170 – Public Policy Analysis  
POL S 186 – Introduction to International Political Econ.  
TMP 120 – Fundamentals in Business Strategy  
TMP 122 – Entrepreneurship

*Reminder: all ES/ECON cross-listed courses require the following prerequisites: Econ 1, 2, and 10A*

**Wildlife, Ecosystems, and Habitat Management (BS or possibly BA degree)**

**AREA B**

\* ENV S 103A – Flora and Vegetation in California  
\* ENV S 108W – Wildlife in America  
\* ENV S 111 – The California Channel Islands  
\* ENV S 114A/B – Soil Science/ Soil Classification  
\* ENV S 119 – Ecology/Management of CA Wildlands  
ENV S 120A/B – Environmental Toxicology  
ENV S 125A/B – Principles of Env Law/Climate Law  
\* ENV S 128 – Foundations of Ecosystem Restoration  
ENV S 130B – Global Tourism and Env. Justice  
\* ENV S 133 – Biodiversity and Conservation Biology  
ENV S 134 – Coastal Processes and Management  
ENV S 137 – Conservation Planning  
ENV S 140 – Fire in Western USA Ecosystems  
ENV S 143 – Endangered Species Management

**AREA C**

ANTH 103 – Human-Wildlife Interactions  
CHEM 109A/B/C – Fundamentals of Organic Chemistry  
CHEM 123 – Fundamentals of Environmental Chemistry  
EEMB 106 – Biology of Fishes  
EEMB 111 – Parasitology  
EEMB 112 – Invertebrate Zoology  
EEMB 120 – Introduction to Ecology  
EEMB 127/L – Plant Biology and Biodiversity  
EEMB 140 – General Plant Ecology  
EEMB 142A – Aquatic Communities  
EEMB 142B/C – Env. Processes in Oceans and Lakes  
EEMB 144 – Marine Microbiology  
EEMB 148 – Ecology of Running Waters  
EEMB 153 – Ecology of Lakes and Wetlands

<ul style="list-style-type: none"> <li>* ENV S 144 – Form, Process, and Human Use of Rivers</li> <li>ENV S 146 – Animals in Human Society</li> <li>* ENV S 152 – Applied Marine Ecology</li> <li>ENV S 159 - America’s Public Lands Waters: Law/Policy</li> <li>ENV S 165A/B – Environmental Impact Analysis</li> <li>* ENV S 167 – Biogeography: Plant &amp; Animal Distribution</li> <li>* ENV S 168 – Aqueous Transport of Pollutants</li> <li>* ENV S 171 – Ecosystem Processes</li> <li>* ENV S 176 – Energy Politics and Policy</li> <li>* ENV S 178 – Politics of the Env (= POL S 175)</li> <li>* ENV S 179 – Natural Resources Econ (=ECON 122)</li> <li>ENV S 193ST - Sea Turtle Conservation &amp; Management</li> </ul>	<ul style="list-style-type: none"> <li>EEMB 159 – Tropical Ecology</li> <li>EEMB 168 – Conservation Ecology</li> <li>EEMB 179 – Ecological Modeling</li> <li>GEOG 112 – Environmental Hydrology</li> <li>GEOG 115A/B/C – Intro to Remote Sensing</li> <li>GEOG 158 – Intro to Marine Resources</li> <li>GEOG 176A/B/C – Intro to Geographic Info. Systems</li> </ul>
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**Environmental Education** (*BA or possibly BS degree*)

**AREA B**

- \* ENV S 103A - Flora and Vegetation of California
- \* ENV S 119 – Ecology/Management of CA Wildlands
- ENV S 127A - Foundations of Environmental Education
- ENV S 127B – Adv. Environmental Ed. and Practicum
- ENV S 129 - Ecopsychology
- \* ENV S 136 – Green Works
- ENV S 137 - Conservation Planning
- ENV S 161 - Environmental Communications
- ENV S 167 - Biogeography: The Study of Plant and Animal Distributions
- ENV S 182 - Community & Personal Resilience Seminar
- ENV S 191 - Nature and Science Education Practicum
- ENV S 193CE – Circular Economy
- ENV S 193TK - Traditional Ecological Knowledge

**AREA C**

- ED 111 - Introduction to Child and Adolescent Development
- ED 123 - Culture, Development, and Education
- ED 125 - Schooling in the U.S.
- ED 126 - Social Connectedness, Motivation, and Self-Regulation in Education
- ED 129 - CalTeach, Elementary Science Education
- ED 146 - Community-Based Research and Outreach
- ED 150 - Teaching and Teachers
- ANTH 108 - Educating the Native
- AS AM 157 - Asian Americans and Education
- BL ST 101C - Teaching 4 Social Justice
- CH ST 133 - Struggles for Equality in Chicana/o Education
- CH ST 134 - Chicana/o Curricula K-12: Theory into Practice
- GLOBL 174 - Global Perspectives on Env. and Society
- HIST 173T - American Environmental History
- SOC 164 - Sociology of Education

**Oceans – Fisheries, management, and protection, etc.** (*BS or possibly BA degree*)

**AREA B**

- \* ENV S 108O – History of the Oceans
- \* ENV S 111 - California Channel Islands
- ENV S 119 – Ecology/Management of CA Wildlands \*
- ENV S 128 - Foundations of Ecosystem Restoration
- ENV S 130A - Un-naturalizing Disasters: Risk, Vulnerability, and Resilience
- ENV S 130B - Global Tourism and Env. Justice
- ENV S 130C - Aquatic Food and Resource Management
- \* ENV S 133 - Biodiversity and Conservation Biology
- ENV S 134 - Coastal Processes and Management
- ENV S 135A/B - Principles and Advanced Env. Planning
- ENV S 137 - Conservation Planning
- \* ENV S 138 – Water and Society (= ANTH 147)
- ENV S 141 - Chemistry of Global Change
- ENV S 143 – Endangered Species Management
- \* ENV S 149 - Food, Ag, and the Env. (= GEOG 161)
- \* ENV S 152 - Applied Marine Ecology

**AREA C**

- EARTH 161 - Earth Resources, Energy & Environment
- EEMB 106 - Biology of Fishes
- EEMB 142A - Aquatic Communities
- EEMB 142B/C – Chem Processes in Oceans and Lakes
- EEMB 144 - Marine Microbiology
- EEMB 168 - Conservation Ecology
- EEMB 179 - Ecological Modeling
- EEMB 194GC - Global Change and Ecology
- ENGL 147OM - Ocean Media
- GEOG 104 - Physical Geography of World’s Oceans
- GEOG 110 - Introduction to Meteorology
- GEOG 112 - Environmental Hydrology
- GEOG 132 - Coastal pollution
- GEOG 133 - Tropical Meteorology
- GEOG 158 - Introduction to Marine Resources
- GEOG 160 - Ocean Remote Sensing
- GEOG 163 - Ocean Circulation
- GEOG 165 - Waves and Tides in the Ocean



ENV S 154 - GIS for Env. Applications ENV S 159 - America's Public Lands Waters: Law/Policy ENV S 165A/B - Environmental Impact Analysis ENV S 193ST - Sea Turtle Conservation & Management	GEOG 166 - Ocean Carbon Cycle and Climate INT 186BL- Transfer Discovery Seminar: Microbial Oceans
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**Environmental Journalism/Communications (BA degree)**

**AREA B**

ENV S 102 - Qualitative Methods for Environmental Studies ENV S 122CC - The Rhetoric of Climate Change ENV S 122NE - Nature and the Environment ENV S 130B - Global Tourism and Env. Justice ENV S 132 - Human Behavior and Global Environment ENV S 145 - Climate Change Mitigation Strategies ENV S 151 - Env. Anthropology (= ANTH 152) ENV S 161 - Environmental Communications ENV S 163B - Global Water Resources: Mgt. and Policy ENV S 165A - Environmental Impact Analysis ENV S 176 - Energy Politics and Policy ENV S 177 - Comparative Environmental Politics ENV S 178 - Politics of the Env (= POL S 175) ENV S 186 - Development, Displacement and the Env. ENV S 188 - Ethics in the Anthropocene ENV S 193PS - The Art of Public Speaking for the Env. ENV S 193SI - Sustainability and Innovation
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**AREA C**

COMM 108 - Corporate Social Responsibility COMM 148 - Risk Communication ENGL 122EA - Environmental Activism HIST 173T - American Environmental History WRIT 107DJ - Digital Journalism WRIT 107J - Journalism and News Writing WRIT 126 - Journalism for the Web and Social Media
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**REMEMBER:** The above list highlights just some popular examples of interdisciplinary environmental emphases. These are only a few of the many combinations of upper-division courses a student may use to create an emphasis. Students are encouraged to browse the latest version of the [UCSB General Catalog](#) to search for newly added courses that may be suitable for one's personal emphasis/concentration.

**Students are encouraged to speak with an [ES Academic Advisor](#) (Bren Hall 4L, Rm. 4312 or 4313) if they have any questions about how to create their own emphasis.**