



HOW TO CREATE YOUR OWN ENVIRONMENTAL EMPHASIS

ENVIRONMENTAL STUDIES PROGRAM, UCSB

2019

Because of the interdisciplinary design of the B.A. and B.S. Environmental Studies major requirements students are afforded the opportunity to customize their upper-division electives (Area B) and outside concentration (Area C) to create a distinct environmental emphasis or concentration unique to their personal and professional goals and needs. Students may choose from a wide selection of courses from the ES Program as well as departments across campus. This information sheet demonstrates how one may create a personalized concentration by offering some example emphases popular with current ES students.

Although one may choose to follow one of the emphases included here, they are SUGGESTIVE ONLY! One may satisfy their major requirements with any combination of applicable courses/units as long as they form a coherent and comprehensive emphasis. Be sure to review the upper-division ES major requirements below before starting an emphasis. A *Request to Petition Degree Requirements* will be required to apply courses from multiple departments towards the Area C, and can be download here: <https://es.ucsb.edu/academics/petition>

Please Note: Pursuing an environmental emphasis as part of your Area B & C requirements can help prepare students for a specialized field or profession. However, one's interdisciplinary emphasis will not be officially noted on their diploma or transcripts. One can highlight their emphasis on their resume and/or cover letter.

Please consult an ES Academic Advisor (Bren Hall 4L, Rm. 4312 or 4313) if you have any questions.

Review of ES Degree's Upper-division Requirements:

B.A. Area B – Upper-division ES Electives - **28 units required** (any ES courses numbered 101 to 199)

Area C - Outside Concentration - **20 units required**, fulfilled by any of the following options:

1. Any 20 units from one department or program within the College of L&S
2. Completion of a double major or official minor (need 20 units)
3. Combination of any 20 UD units outside of ES to create a unique interdisciplinary emphasis. A petition must be approved by the ES Program and may also include upper-division transfer work such as environmental field studies or study abroad units.

B.S. Area B – Upper-division ES Electives - **32 units required** separated into two categories:

B-1 – At least 20 units from this list – 103A, 105, 111, 113, 114A, 114B, 119, 120A, 120B, 121, 128, 133, 134, 141, 142, 144, 147, 149, 152, 157, 158, 162, 163A, 163B, 166BT, 166DC, 166FP, 167, 168, 169, 171, 193CP, 193CS, 193EB, and 197.

B-2 – 12 units of any ES course numbered 101-199 not already being used to satisfy the 20 units of B-1.

Area C - Outside Concentration - **16 upper-division units required using one of these two options:**

1. Single department: Any 16 upper-division units from **one** of the following departments: Chemistry & Biochemistry, EEMB and/or MCDB (Bio), Earth Sciences, Geography (only courses that apply to the B.S. Physical Geog. major), Math, Statistics, Physics, or units taken for the B.S. degree in Psychological & Brain Sciences. Completion of a double major or minor from the above depts will satisfy this area (Spatial Studies minors must consult an ES Advisor).

2. Interdisciplinary emphasis: Combination of 16 upper-division units from more than one department listed above may be used to create a concentration of study as long as they form a coherent focus or emphasis.

EXAMPLES OF INTERDISCIPLINARY ENVIRONMENTAL EMPHASES:

The following list highlights some examples of interdisciplinary environmental emphases.

REMEMBER: these are only a few examples 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 responsible for knowing about 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.

** before the course indicates a cross-listed course with a second department. These can be applied to either Area B or C, but not both simultaneously. All courses may apply to just **one** major requirement only.*

Human-Environmental Health (BS or possible BA degree)

AREA B

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

NOTE: See the health professions advisor at L&S for more information on possible Area C classes that will also apply towards "pre-health/med" preparation.

AREA C

ANTH 104 – Risk and Inequality
 ANTH 138 – Anthropology of Human Health
 ANTH 171 – Evolutionary Medicine
 CHEM 109A/B/C – Fundamentals in Organic Chemistry
 CHEM 123 – Fundamentals of Environmental Chemistry
 COMM 155 – Health Communication
 ECON 170 – Health Economics
 FEM 130 – Perspectives on Women's Health
 GEOG 152 – Health Geography
 GLOBL 138 – Global Health
 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
 PSYCH 101 – Health PSYCH
 RGST 114D – Religion and Healing in Native America
 RGST 156BE – Bio-Medical Ethics
 RGST 193B – Religion and Healing in a Global Perspective
 SOC 176A – Sociology of Global Health

Environmental Law and Politics (BA degree)

AREA B

* ENVS 1080 – History of the Oceans
 ENVS 112 – World Population, Policies, and the Environment
 ENVS 116 – Building Sustainable Communities
 ENVS 117 – Sci. and Policy Dimensions of Climate Change
 ENVS 125A/B – Principles of Env Law/ Cal Planning Law
 ENVS 131 – International Env. Law and Diplomacy
 ENVS 139 – Business and the Environment
 ENVS 174 – Environmental Policy and Economics
 * ENVS 175 – Environmental Economics (same as ECON 115)
 * ENVS 176 – Energy Politics and Policy
 ENVS 176A/B – Water Policy in the West/Adv. Water Policy
 * ENVS 177 – Comparative Env Politics
 * ENVS 178 – Politics of the Env (same as POLS 175)
 * ENVS 179 – Natural Resource Econ (same as ECON 122)
 ENVS 185 – Human Environmental Rights
 ENVS 188 – Environmental Ethics

AREA C

BLST 129 – The Urban Dilemma
 BLST 131 – Race and Public Policy
 ECON 117A – Law and Economics
 ECON 127 – Climate Change
 ECON 189 – Business Law and Ethics in Accounting
 GEOG 135 – Mock Environmental Summit
 GEOG 135S – Intense Mock Environmental Summit
 GEOG 141C – California Population Analysis and Policy
 GEOG 185A/B/C – Planning & Policy/ Decision Making/ Analysis
 GLOBL 161 – Global Environmental Policy and Politics
 GLOBL-171 – Global Environmental Law & Policy
 GLOBL 174 – Global Perspectives on Env. and Society
 HIST 172A/B – Politics and Public Policy in the U.S.
 HIST 174A/B/C – Wealth and Poverty in America
 POLS 110E – Environmental Political Theory
 POLS 137 – Politics of Economic Development
 POLS 153 – Political Interest Groups
 POLS 162 – Urban Government and Politics
 SOC 134G – Green Movements and Green Parties
 WRIT 107L/110L – Legal Writing / Advanced Legal Writing

Environmental Justice and Social Inequity (BA degree)

AREA B

ENVS 112 – World Population, Policies, and the Environment
 ENVS 116 – Building Sustainable Communities
 ENVS 125A – Environmental Law
 ENVS 129 – Ecopsychology
 ENVS 130A – Risks, Vulnerability, Resilience, and Disasters
 ENVS 130B – Global Tourism and Env. Conservation
 ENVS 130C – Global Food Systems: Human Food Security
 * ENVS 130SD – World in 2050: Sustainable Development
 ENVS 131 – International Environmental Law and Diplomacy
 ENVS 132 – Human Behavior and Global Environment
 * ENVS 134CJ – Climate Justice
 * ENVS 134EC – Earth in Crisis
 ENVS 146 – Animals in Human Society
 * ENVS 149 – World Ag, Food, Population (*same as GEOG 161*)
 * ENVS 151 – Env. Anthropology (*same as ANTH 152*)
 ENVS 155 – The Built World: Infrastructure, Power, & Env
 * ENVS 168JH – Gauchos, Cowboys, and Indians
 * ENVS 175 – 175 Environmental Economics
 * ENVS 177 – Comparative Environmental Politics
 * ENVS 178 – Politics of the Env (*same as POLS 175*)
 ENVS 180 – Global Environmental Movements
 ENVS 181 – Power, Justice, and the Environment
 ENVS 183 – Film, Representation, and the Environment
 ENVS 184 – Gender and the Environment
 ENVS 185 – Human Environmental Rights
 ENVS 186 – Development, Displacement and the Env
 ENVS 188 – The Ethics of Human – Environment Relations
 ENVS 189 – Religion and Ecology in the Americas
 ENVS 193CA – California Climate Future
 ENVS 193CR – Personal & Community Resilience
 ENVS 193CS – Citizen and Community Science
 ENVS 193TN – Toxic Native America
 * ENVS 193WL – Wild Literature in Urban Landscapes

AREA C

ANTH 104 – Risk and Inequality
 ANTH 110 – Technology and Culture
 ANTH 111 – The Anthropology of Food
 ANTH 113 – Indigenous People and the Nation State in America
 ANTH 122 – ANTH of World Systems
 ANTH 124 – Anthropological Political Economy
 ANTH 125 – Anthropology of Gender
 ANTH 130 – International Development and Population Health
 ANTH 138 – Anthropology of Environmental Health
 ANTH 139 – Indigenous Peoples
 ANTH 145 – Anthropological Demography and Life History
 ANTH 146 – Development Anthropology
 ANTH 172 – Colonialism and Culture
 ANTH 177 – Infrastructure Inequalities
 BLST 154 – Environment Racism and Environmental Justice
 ECON 114A / B – Economic Development
 EACS 141 – Environmental Justice in Asia
 GEOG 109 – Economic Geography
 GEOG 135 – Mock Environmental Summit
 GEOG 13S – Intense Mock Environmental Summit
 GEOG 141A/B/C – Population Geog/Development/Policy
 GEOG 145 – Society and Hazards
 GLOBL 111 – human Rights and World Order
 GLOBL 124 – Global Conflict
 GLOBL 130 – Global Economy and Development
 GLOBL 161 – Global Environmental Policy and Politics
 GLOBL 171 – Global Environmental Law & Policy
 GLOBL 173 – Energy in Global Societies
 GLOBL 174 – Global Perspectives on Env. and Society
 PHIL 129 – Philosophy of International Relations
 POLS 117 – Social Movement Politics
 POLS 119AA-ZZ – Ethical Issues in International Relations
 POLS 132 – Politics of the Poor
 POLS 146 – Globalization and Politics
 POLS 147 – Politics in Developing Countries
 RGST 110E – Mexican and Chicana Spiritualism
 RGST 156EE – Environmental Ethics
 SOC 122GI – Global Inequities
 SOC 126U – Sociology of the Urban Underclass
 SOC 130 – Development and its 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 134GJ – Global Justice Movements
 SOC 134RC – Radical Social Change
 SOC 145 – Social Inequalities

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Food, Agriculture, and the Environment (BA or BS degree)

AREA B

ENVS 112 – World Population, Policies, and the Environment
 * ENVS 114A/B – Soil Science/ Soil Classification
 ENVS 116 – Building Sustainable Communities
 ENVS 120A/B – Intro and Advanced Env. Toxicology
 ENVS 121 – Contaminants of Emerging Concern
 ENVS 130C – Global Food Systems, Human Food Security
 ENVS 132 – Human Behavior and the Global Environment
 ENVS 135A/B – Principles and Advanced Env. Planning
 ENVS 142 – Microbes and the Human Environment
 ENVS 146 – Animals in Human Society
 * ENVS 149 – World Ag, Food, Population (*same as GEOG 161*)
 ENVS 154 – GIS for Env. Applications
 ENVS 157 – Santa Barbara County Agrifood System
 * ENVS 158 – Cultural and Biological Diversity of Food Plants
 (*same as GEOG 169*)
 * ENVS 162 – Environmental Water Quality
 ENVS 163A – Global Water Resources -Supply & Demand
 ENVS 163B – Global Water Resources –Mgt. and Policy
 * ENVS 166BT – Biotech, Food, Ag (*same as GEOG 171BT*)
 ENVS 166DC – Diet and Global Climate Change
 * ENVS 166FP – Small Scale Food Prod (*same as GEOG 171FP*)
 ENVS 176A/B – Water Policy in the West
 ENVS 193EB – Ethnobotany: Human Use of Plants

AREA C

ANTH 103 – Human-Wildlife Interactions
 ANTH 110 – Technology and Culture
 ANTH 111 – The Anthropology of Food
 ANTH 123 – Feeding Ecology of Primates and Humans
 ANTH 127 – Hunters and Gatherers
 ANTH 141 – Agriculture and Society in Mexico: Past/Present
 ANTH 147 – Water and Society
 * ENVS 152 – Env. Anthropology (*same as ENVS 151*)
 ANTH 160 – Cultural Ecology
 ANTH 162 – Prehistoric Food Production
 ANTH 168 – Ethnology in Rural CA, Agr/Farm/Labor/Rural
 ARTHS 136E – Food Space
 * ECON 122 – Natural Resource Econ (*same as ENVS 179*)
 EEMB 127/127L – Plant Biology and Biodiversity/Lab
 EEMB 140/140L – General Plant Ecology
 EEMB 157C – Plant Physiology
 * EEMB 171 – Ecosystem Processes
 GEOG 110 – Introduction to Meteorology
 GEOG 140 – Env Impacts in Human History
 GLOBL 138 – Global Health
 GLOBL 174 – Global Perspectives on Env. and Society
 HIST 193F – Food in World History
 * SOC 134EC –Earth in Crisis

Climate Change (BA or BS degree)

AREA B

ENVS 105 – Solar and Renewable Energy
 ENVS 106 – Critical Thinking: Human-Env. Problems
 ENVS 112 – World Population, Policies, and the Environment
 ENVS 116 – Building Sustainable Communities
 ENVS 117 – Sci. and Policy Dimensions of Climate Change
 * ENVS 122CC – Rhetoric of Climate Change
 ENVS 130A – Risks, Vulnerability, Resilience, and Disasters
 ENVS 130C – Global Food Systems, Human Food Security
 * ENVS 130SD – World in 2050: Sustainable Development
 ENVS 132 – Human Behavior and Global Environment
 * ENVS 134EC – Earth in Crisis
 * ENVS 134CJ – Climate Justice
 ENVS 141 – Chemistry of Global Change
 * ENVS 149 – World Ag, Food, Population (*same as GEOG 161*)
 ENVS 166 DC – Diet and Climate Change
 * ENVS 166FP – Small Scale Food Prod (*same as GEOG 171FP*)
 ENVS 167 – Biogeography: Plant & Animal Distribution
 ENVS 174 – Environmental Policy and Economics
 ENVS 176A/B – Water Policy in the West/ Adv. Water Policy
 ENVS 185 – Human Environmental Rights
 ENVS 188 – The Ethics of Human – Environment Relations

AREA C

ANTH 147 – Water and Society
 CHEM 123 – Fundamentals of Environmental Chemistry
 ECON 127 – Climate Change
 EEMB 104 – The State of Our Planet
 EEMB 169 – The Effects of Climate Change on Marine Ecosystems
 EEMB 155CC – Global Change Biology
 EEMB 179 – Ecological Modeling
 EARTH 105 – Earth’s Climate: Past and Present
 EARTH 106 – Introduction to Climate Modelling
 EARTH 107 – Climate Change: Lessons from the Past
 EARTH 117 – Earth Surface Processes and Landforms
 EARTH 130 – Global Warming - Science and Society
 EARTH 150 – Petroleum Geology
 EARTH 161 – Earth Resources, Energy & Environment
 EARTH 164B – Earth System Ocean-Atmosphere
 EARTH 164C – Earth System History
 GEOG 110 – Intro to Meteorology
 GEOG 111C – Smart Green Cities
 GEOG 113 – Polar Environments
 GEOG 115A/B/C – Introduction to Remote Sensing Series
 GEOG 119 – Climate Change and its Consequences
 GEOG 133 – Tropical Meteorology
 GEOG 134 – Earth System Science
 GEOG 140 – Environmental Impacts in Human History
 GEOG 145 – Society and Hazards
 GEOG 158 – Intro to Marine Resources
 GEOG 163 – Ocean Circulation
 GEOG 175 – Measuring our Environment
 GEOG 176A/B/C – Intro to Geographic Information Systems
 GEOG 185B – Env. Issues and Local Decision Making
 GLOBL 161 – Global Environmental Policy and Politics
 GLOBL 171 – Global Env. Law and Policy
 GLOBL 173 – Energy in Global Societies
 GLOBL 174 – Global Perspectives on Env. and Society

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

AREA B	AREA C
ENVS 112 – World Population, Policies, and the Env.	ANTH 147 – Water and Society
ENVS 116 – Building Sustainable Communities	ARTHS 136B – Twentieth-Century Architecture
ENVS 117 – Sci. and Policy Dimensions of Climate Change	ARTHS 136C – Architecture of the United States
ENVS 118 – Industrial Ecology: Designing for the Env.	ARTHS 136E – Food Space
ENVS 125A – Principles of Environmental Law	ARTHS 136I – The City in History
ENVS 125B – Land Use and Planning Law	ARTHS 136T – Building CA: Architecture and the Environment
ENVS 130A – Risks, Vulnerability, Resilience, and Disasters	ARTHS 136U – Designing a Better Tomorrow
ENVS 130SD – The World in 2050: Sustainable Development	ARTHS 186Y – Seminar in Architecture and Environment
* ENVS 135A/B – Principles of Env. Planning/Adv. Planning	BLST 129 – The Urban Dilemma
ENVS 136 – Green Works	GEOG 101 – Transportation Futures
* ENVS 136O – Sustainable Architecture	GEOG 108 – Urban Geography
* ENVS 149 – World Ag, Food, Population (<i>same as GEOG 161</i>)	GEOG 111A – Transportation Planning and Modeling
* ENVS 151 – Env. Anthropology (<i>same as ANTH 152</i>)	GEOG 111B – Transportation Modeling and Simulation
ENVS 155 – The Built World: Infrastructure, Power, and Env	GEOG 111C – Smart Green Cities
ENVS 165A/B – Env. Impact Analysis/Adv. Impact Analysis	GEOG 115A/B/C – Introduction to Remote Sensing Series
ENVS 172 – Integrated Materials and Waste Management	GEOG 130 – The Urban Environment
* ENVS 174 – Environmental Policy and Economics	GEOG 141A/B/C – Population Geog/ Development/ Policy
* ENVS 176 – Energy Politics and Policy	GEOG 145 – Society and Hazards
ENVS 176A/B – Water Policy in the West/Adv. Water Policy	GEOG 146 – Introduction to Transportation
* ENVS 178 – Politics of the Env (<i>same as POLS 175</i>)	GEOG 176A/B/C – Intro. To Geographic info. Systems
ENVS 185 – Human Environmental Rights	GEOG 182 – Global Cities in the Information Age
ENVS 193CE – Circular Economy	GEOG 185A/B/C – Planning & Policy/ Decision Making/ Analysis
ENVS 193SI – Sustainability and Innovation	HIST 178A – American Urban History
	POLS 162 – Urban Government and Politics
	SOC 126 – Urban Society

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

AREA B	AREA C
ENVS 113 – Engineering and Environmental Geology	ANTH 147 - Water and Society
* ENVS 114A/B – Soil Science/ Soil Classification	CHEM 109A/B/C – Fundamentals of Organic Chemistry
ENVS 118 – Industrial Ecology: Designing for the Env.	CHEM 112A/B/C – Biophysical Chemistry
ENVS 120A – Environmental Toxicology	CHEM 113A/B/C – Physical Chemistry
ENVS 120B – Advanced Environmental Toxicology	CHEM 123 – Fundamentals of Environmental Chemistry
ENVS 121– Contaminants of Emerging Concern	CHEM 150 – Analytical Chemistry
ENVS 125A – Principles of Environmental Law	EARTH 114 – Geomaterials
ENVS 125B – Land Use and Planning Law	EARTH 117 – Earth Surface Processes and Landforms
ENVS 131– International Env. Law and Diplomacy	EARTH 124A – Aqueous Geochemistry
ENVS 134 – Coastal Processes and Management	EARTH 125 – Field Methods in Hydrology
ENVS 141 – Chemistry of Global Change	EARTH 150 – Petroleum Geology
ENVS 142 – Microbes and the Human Environment	EARTH 164B – Earth System Ocean-Atmosphere
* ENVS 144 – Form, Process, and Human Use of Rivers	EARTH 176 – Geological Applications of GIS
ENVS 147 – Air Quality and the Environment	EEMB 104 – The State of Our Planet
* ENVS 149 – World Ag, Food, Population (<i>same as GEOG 161</i>)	EEMB 142B/C – Chem/Env. Processes in Oceans and Lakes
* ENVS 152 – Applied Marine Ecology	EEMB 148 – Ecology of Running Waters
* ENVS 162 – Environmental Water Quality	EEMB 167 – Applied Freshwater Ecology
ENVS 165A/B – Environmental Impact Analysis	GEOG 104 – Physical Geography of the World’s Oceans
* ENVS 166BT – Biotechnology, Food, and Agriculture (<i>same as GEOG 171BT</i>)	GEOG 110 – Intro to Meteorology
* ENVS 166FP – Small Scale Food Production (<i>same as GEOG 171FP</i>)	GEOG 112 – Environmental Hydrology
* ENVS 168 – Aqueous Transport of Pollutants	GEOG 115A/B/C – Remote Sensing of the Environment
* ENVS 169 – Tracer and Containment Hydrology	GEOG 116 – Groundwater Hydrology (<i>same as EARTH 173</i>)
* ENVS 171 – Ecosystem Processes	GEOG 132 – Coastal Pollution
ENVS 176A/B – Water Policy in the West/Adv. Water Policy	GEOG 134 – Earth System Science
* ENVS 178 – Politics of the Env (<i>same as POLS 175</i>)	GEOG 136 – Field Studies in Water, Energy, and Ecosystems
* ENVS 179 – Natural Resource Econ (<i>same as ECON 122</i>)	GEOG 137 – Quantitative Geomorphology
	GEOG 140 – Environmental Impacts in Human History
	GEOG 142 – Global Biogeochemical Cycles

ENVS 193DS – Intro to Env. Data Science	GEOG 158 – Introduction to Marine Resources GEOG 162 – Ocean Circulation GEOG 175 – Measuring our Environment GEOG 176A/B/C – Intro to Geographic Information Systems MCDB 110 – Principles of Biochemistry
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Energy and Sustainability (BA or BS degree)

AREA B

ENVS 105 – Solar and Renewable Energy
ENVS 116 – Building Sustainable Communities
ENVS 117 – Sci. and Policy Dimensions of Climate Change
ENVS 118 – Industrial Ecology: Designing for the Env.
ENVS 120A – Environmental Toxicology
ENVS 120B – Advanced Environmental Toxicology
ENVS 125A – Principles of Environmental Law
ENVS 130SD – The World in 2050: Sustainable Development
ENVS 135A/B – Principles of Env. Planning/Adv. Planning
ENVS 136 – Green Works: Exploring Technology & Sustain.
ENVS 147 – Air Quality and the Environment
* ENVS 149 – World Ag, Food, Population (*same as GEOG 161*)
ENVS 165A/B – Environmental Impact Analysis
* ENVS 166FP – Small Scale Food Prod (*same as GEOG 171FP*)
ENVS 172 – Integrated Materials and Waste Management
ENVS 174 – Environmental Policy and Economics
* ENVS 176 – Energy Politics and Policy
ENVS 176A/B – Water Policy in the West/Adv. Water Policy
* ENVS 178 – Politics of the Env (*same as POLS 175*)
* ENVS 179 – Natural Resource Econ (*same as ECON 122*)
ENVS 193CE – Circular Economy
ENVS 193GB – Green Building
ENVS 193SI – Sustainability and Innovation

Recommended: Completion of as many lower-division physics (preferably PHYS 1, 2, 3, 4, 5 series) and calculus (MATH 3A; B) courses as possible for Engineering field

AREA C

ANTH 147 – Water and Society
CHEM 109ABC – Fundamentals of Organic Chemistry
CHEM 113ABC – Physical Chemistry
CHEM 123 – Fundamentals of Environmental Chemistry
CHEM 150 – Analytical Chemistry
ECON122 – Natural Resource Economics
EARTH 124T – Introductory Thermodynamics
EARTH 136 – Chemical Thermodynamics
EARTH 130 – Global Warming - Science and Society
EARTH 150 – Petroleum Geology
EARTH 161 – Earth Resources, Energy and the Environment
EEMB 104 – The State of Our Planet
GEOG 101 – Transportation Futures
GEOG 108 – Urban Geography
GEOG 111A/B – Transportation Planning/Modeling/Simulation
GEOG 111C – Smart Green Cities
GEOG 119 – Climatic Change and Its Consequences
GEOG 137 – Remote Sensing of the Atmosphere: An Intro.
GEOG 140 – Environmental Impacts in Human History
GEOG 145 – Society and Hazards
GEOG 158 – Intro to Marine Resources
GEOG 175 – Measuring our Environment
GLOBL 171 – Global Environmental Law & Policy
GLOBL 173 – Energy in Global Societies
GLOBL 174 – Global Perspectives on Environment and Society
SOC 118CW – Consumption, Waste, and the Environment
TMP 120 – Fundamentals in Business Strategy
TMP 122 – Entrepreneurship
TMP 130 – Operations Management

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History of Human-Environmental Relations (BA degree)

AREA B

* ENVS 108O – History of the Oceans
* ENVS 108W – Wildlife in America
ENVS 112 – World Population, Policies, and the Environment
ENVS 118 – Industrial Ecology: Designing for the Env
* ENVS 119 – Ecology and Management of CA Wildlands
* ENVS 122LE – Literature and the Env
* ENVS 122NE – Nature and the Env
ENVS 127A – Foundations of Environmental Education
ENVS 129 – Ecopsychology
ENVS 130A – Risks, Vulnerability, Resilience, and Disasters
ENVS 130B – Global Tourism and Env. Conservation
ENVS 130C – Global Food Systems, Human Food Security
* ENVS 130SD – World in 2050: Sustainable Development
ENVS 132 – Human Behavior and Global Environment
ENVS 139 – Business and the Environment
ENVS 143 – Endangered Species Management
ENVS 146 – Animals in Human Society
* ENVS 149 – World Ag, Food, Population (*same as GEOG 161*)
* ENVS 151 – Env. Anthropology (*same as ANTH 152*)

AREA C

ANTH 109 – Human Universals
ANTH 103 – Human-Wildlife Interactions
ANTH 110 – Technology and Culture
ANTH 111 – The Anthropology of Food
ANTH 139 – Indigenous Peoples
ANTH 160 – Cultural Ecology
GEOG 135 – Mock Environmental Summit
GEOG 13S – Intense Mock Environmental Summit
GEOG 140 – Environmental Impacts in Human History
GEOG 141A/B – Population Geography/Development
GEOG 145 – Society and Hazards
GEOG 153A – Behavioral Geography
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, Technology and Contemporary Culture
HIST 109 – Science and Technology in America
HIST 110D – Diseases in History

<p>ENVS 160 – American Environmental Literature ENVS 166 DC – Diet and Climate Change * ENVS 173 – American Environmental History * ENVS 176 – Energy Politics and Policy * POLS177 – Comparative Env Politics * ENVS 178 – Politics of the Env (<i>same as POLS 175</i>) ENVS 180 – Global Environmental Movements ENVS 181 – Power, Justice, and the Environment ENVS 183 – Films of the Natural and Human Environment ENVS 184 – Gender and the Environment ENVS 185 – Human Environmental Rights ENVS 188 – The Ethics of Human Environment Relations ENVS 189 – Religion and Ecology in the Americas</p>	<p>HIST 117E – Society and Nature in the Middle Ages HIST 178A – American Urban History HIST 179AB – Native American History INT 156EE – Environmental Ethics POLS 146 – Globalization and Politics POLS 170 – Public Policy Analysis POLS 177 – Comparative Environmental Politics RGST 156 EE – Environmental Ethics SOC 105 – Environmental Sociology SOC 130 – Development and its Alternatives SOC 130GR – Globalization and Resistance</p>
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Environmental Economics and Policy (BA degree)

AREA B	AREA C
<p>ENVS 104 – People, Poverty, and Env. in Central America ENVS 116 – Building Sustainable Communities ENVS 117 – Sci. and Policy Dimensions of Climate Change ENVS 118 – Industrial Ecology: Designing for the Env ENVS 125A – Environmental Law * ENVS 130SD – World in 2050: Sustainable Development ENVS 130B – Global Tourism and Env. Conservation ENVS 130C – Global Food Systems & Human Food Security ENVS 131 – International Environmental Law and Diplomacy ENVS 132 – Human Behavior and the Global Environment ENVS 136 – Green Works: The Search for Sustainability ENVS 157 – Santa Barbara County Agrifood System ENVS 165A/B – Environmental Impact Analysis * ENVS 166FP – Small Scale Food Prod (<i>same as GEOG 171FP</i>) ENVS 172 – Waste Management: Product Stewardship, etc. ENVS 174 – Environmental Policy and Economics ENVS 175 – Environmental Economics ENVS 176A/B – Water Policy in the West * ENVS 178 – Politics of the Env (<i>same as POLS 175</i>) * ENVS 179 – Natural Resource Econ (<i>same as ECON 122</i>) ENVS 180 – Global Environmental Movements ENVS 185 – Human Environmental Rights ENVS 193CE – Circular Economy ENVS 193SI – Sustainability and Innovation * These ES/Econ courses require the following prerequisites: <i>Econ 1, 2, and 10A</i></p>	<p>ECON 100B – Intermediate Microeconomic Theory ECON 101 – Intermediate Macroeconomic Theory ECON 114 – Economic Development ECON 127 – Climate Change ECON 174 – Negotiations ECON 176 – Experimental Economics ECON 183 – Economics of Entrepreneurship GEOG 109- -- Economic Geography GEOG 135 – Mock Environmental Summit GEOG 13S – Intense Mock Environmental Summit GEOG 141C – California Population Analysis and Policy GEOG 185B/C – Env. Urban, Decision Making, & Planning 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 GLOBL 171 – Global Environmental Politics HIST 167E – Studies in Work, Labor, and Political Economy HIST 172A/B – Politics and Public Policy in the United States POLS 146 – Globalization and Politics POLS 162 – Urban Government and Politics POLS 170 – Public Policy Analysis POLS 185 – Government and the Economy POLS 186 – Introduction to International Political Economy TMP 120 – Fundamentals in Business Strategy TMP 122 – Entrepreneurship</p>

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

AREA B	AREA C
<p>ENVS 103 – Flora and Vegetation in California * ENVS 108W – Wildlife in America * ENVS 111 – The California Channel Islands * ENVS 119 – Ecology and Management of CA Wildlands * ENVS 114A/B – Soil Science/ Soil Classification ENVS 120A – Environmental Toxicology ENVS 120B – Advanced Environmental Toxicology ENVS 125A – Principles of Environmental Law * ENVS 128 – Foundations of Ecosystem Restoration ENVS 130B – Global Tourism and Env. Conservation * ENVS 133 – Biodiversity and Conservation Biology ENVS 134 – Coastal Processes and Management ENVS 143 – Endangered Species Management * ENVS 144 – Form, Process, and Human Use of Rivers ENVS 146 – Animals in Human Society ENVS 152 – Applied Marine Ecology</p>	<p>ANTH 103 – Human-Wildlife Interactions CHEM 109ABC – Fundamentals of Organic Chemistry CHEM 123 – Fundamentals of Environmental Chemistry EEMB 104 – The State of Our Planet EEMB 106 – Biology of Fishes EEMB 107 – Biology of Amphibians and Reptiles EEMB 111 – Parasitology EEMB 112 – Invertebrate Zoology EEMB 117 – Flow and Aquatic Ecosystems EEMB 118 – Entomology EEMB 120 – Introduction to Ecology EEMB 127/L – Plant Biology and Biodiversity EEMB 140 – General Plant Ecology EEMB 142A – Aquatic Communities EEMB 142B/C – Environmental Processes in Oceans and Lakes EEMB 143/L – Ecological Physiology</p>

ENVS 165A/B – Environmental Impact Analysis * ENVS 167 – Biogeography: Plant & Animal Distribution * ENVS 168 – Aqueous Transport of Pollutants * ENVS 171 – Ecosystem Processes * ENVS 176 – Energy Politics and Policy ENVS 176A/B – Water Policy in the West/Adv. Water Policy * ENVS 178 – Politics of the Env (<i>same as POLS 175</i>) * ENVS 179 – Natural Resource Econ (<i>same as ECON 122</i>) ENVS 193CP – Conservation Planning	EEMB 144 – Marine Microbiology EEMB 148 – Ecology of Running Waters EEMB 153 – Ecology of Lakes and Wetlands EEMB 159 – Tropical Ecology EEMB 166 – Field Approaches to Terrestrial Plant/Ecosystem Eco. EEMB 167 – Applied Freshwater Ecology EEMB 168 – Conservation Ecology EEMB 172 – Theoretical Population Ecology EEMB 179 – Ecological Modeling GEOG 112 – Environmental Hydrology GEOG 113 – Polar Environments GEOG 115A/B/C – Introduction to Remote Sensing Series GEOG 136 – field Studies in Water, Energy, and Ecosystems GEOG 158 – Intro to Marine Resources GEOG 168 – Field Studies in Biogeography GEOG 176ABC – Intro to Geographic Information Systems
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* before the course **indicates a cross-listed course** with a second department. These can be applied to either Area B or C, but not both simultaneously. All courses may apply to just **one** major requirement only.

Other possible emphases may include:

Environmental Education, Environmental Journalism/Communications, Environmental Movements, Environmental Mapping, Oceans- Fisheries, management, and protection, etc.