# Sustainability

*Director:* Leslie Gray

The sustainability minor helps students discover the connections and balance among a healthy environment, just societies, and a vibrant economy that meet all people’s fundamental needs currently and in the future, especially those of the global poor. Courses explore the environmental, societal, and economic aspects of sustainability, and how to take action to improve sustainability.

## Requirements for the Minor

Students must complete a total of eight courses. One foundational course is required, and two courses must be taken from each of the following three dimensions of sustainability: environmental, societal, and economic. In addition, students must complete one action learning course consisting of an approved project, community-based or immersion course. The following courses are approved for each area. No more than three courses can come from a student’s major.

Foundational course:

ENVS 95. Sustainability 101

## Environmental Dimensions Courses

BIOL 5. Endangered Ecosystems L&L

BIOL 6. Oceans L&L

BIOL 134. California Plant Diversity L&L

BIOL 156. General Ecology L&L

BIOL 180. Marine Ecology L&L

CENG 20. Geology

CENG 124. Water Law and Policy (also listed as ENVS 124)

CENG 140. Water Resources Engineering

CENG 143. Environmental Engineering

CENG 144. Environmental Systems Design

CENG 161. Sustainable Water Resources

CHEM 1. Chemistry and the Environment

CHEM 12. General Chemistry 2 L&L

CHEM 12H. General Chemistry 2 L&L Honors

CHEM 101. Bioinorganic Chemistry

ENGR 1. Introduction to Engineering

ENGR 15. Environmental Quality Engineering

ENGR 60. Sustainable Electric Energy

ENVS 21. Introduction to Applied Ecology

ENVS 23. Introduction to Earth Systems L&L

ENVS 80. Energy and the Environment

ENVS 145. Environmental Technology

ENVS 156. General Ecology L&L

ENVS 160. Water Resources L&L

ENVS 166. Climate Change: Past to Future

ENVS 167. Innovation for Climate Justice

MECH 121. Thermodynamics

PHYS 120. Thermal Physics

## Societal Dimensions Courses

ANTH 50. World Geography (also listed as ENVS 50)

ANTH 140. Food, Culture, and the Environment

ANTH 154. Environmental Anthropology

ANTH 159. Globalization and Culture Change

COMM 105A. Multicultural Folktales and Storytelling

COMM 120A. Environmental Communication

COMM 128B. Dialogue and Deliberation

ECON 129. Economic Development

ECON 160. The Economics of Poverty and Inequality

ENGL 176. Creative Writing & Social Justice

ENGR 161. Cultures of InnovationENGR 272. Energy Public Policy

ENGR 273. Sustainable Energy and Ethics

ENVS 22. Introduction to Environmental Studies

ENVS 128. Sustainable Urban Planning

ENVS 146. Agriculture, Environment, and Development: Latin America

ENVS 155. Environmental and Food Justice

ETHN 156. Environmental Racism, Gender, and Justice

PHIL 29. Ethics and the Environment

PHYS 192. Physics and Society

POLI 123. Global Environmental Politics

RSOC 64. Comparative Religion and Environmentalism

SCTR 111. Bible & Ecology

SOCI 33. Social Problems in the United States

SOCI 132. Social Stratification

SOCI 134. Globalization and Inequality

SOCI 138. Populations of India, China, and the United States

TESP 26. Sustainable Theologies

TESP 84. Spirituality and Sustainability

TESP 152. Faith, Ethics, and Biodiversity

## Economic Dimensions Courses

ACTG 140. Government and Nonprofit Accounting

BUSN 70. Contemporary Business Issues

BUSN 150. Feeding the World

BUSN 170. Contemporary Business for Nonmajors

CENG 128. Engineering Economics and Business

ECON 1. Principles of Microeconomics

ECON 101. Resources, Food, and the Environment (also listed as MGMT 173)

ECON 111. Economics of the Environment

ENGR 171A. Product Opportunity Assessment and ENGR 173. Introduction to Business Fundamentals (1 unit each)

ENGR 271. Energy Conservation

MGMT 6. Business Ethics

MGMT 6H. Business Ethics: Honors

MGMT 40. Foundational Knowledge of Managing for Sustainability

MGMT 41. Foundational Skills of Managing for Sustainability

MGMT 80. Global and Cultural Environment of Business

MGMT 168. Managing for Sustainability

MKTG 189. Sustainability Marketing

OMIS 108E. Sustainable Operations Management

PHIL 26. Ethics in Business

## Action Learning Courses

BUSN 132. Contemplative Leadership and Sustainability Program (CLASP)

BUSN 151A. Food, Hunger, Poverty, Environment Immersion

ELSJ 135. Research in Social Entrepreneurship

ENGR 25. Sustainability Energy Projects

ENGR 110. Community-Based Engineering Design

ENGR 125. Advanced Sustainable Energy Projects

ENGR 136. Frugal Innovation Projects for Social Benefit

ENVS 195. Sustainable Living Undergraduate Research Project (SLURP)

ENVS 191. Urban Agriculture Practicum

ENVS 191EL. Urban Agriculture Practicum (ELSJ)

MGMT 42. Leading From Triple Bottom Line

Other classes that may be approved for the Action Learning requirement include a relevant credit-bearing course for which a grade is earned (e.g., internship, study abroad, Washington Semester, research project, senior design project, etc.) or participation in the Global Social Benefit Incubator, Leavey School of Business Global Fellows Program, or sustainability-related study abroad programs.