

# LAFAYETTE COLLEGE

## Environment & Energy Focus Area Electives

The following are approved courses for the Environment and Energy focus area – discuss the courses that meet your specific interests with your advisor. A few of these courses require prerequisites\* (for example BIOL 111 for the BIOL courses listed with\*). Upper-level GEOL courses typically require you to have taken a 100-level GEOL course. We do our best to keep these lists current, but students may petition for new courses to be added. If a course is on this list and doesn't show up in DegreeAudit, please let both the Registrar and your Advisor know about it. Please note that courses on this list may not be offered each year.

### Engineering Electives

CE 322	Environmental Site Assessment
*CE 351	Water Resources Engineering
CE 352	Hydrology
CE 423	Water Quality
CE 444	Civil Infrastructure Systems Management
CHE 334	Chemical Processes in Environmental Engineering
*CHE 342	Atmospheric Engineering and Science
CHE 370	Alternate Energy Sources
EGRS 261*	Engineering Economics & Management
EGRS 480	Sustainable Solutions (must include an engineering project)
ME 374	Sustainable Building Design
ME 395	Environmental Fluid Mechanics
ME 470	Heat Transfer
ME 475	Thermal/Fluid Systems
ES 495, 496	Integrative Engineering Senior Thesis

\*CE 351 and CHE 342 are highly recommended for students that are interested in taking the Environmental FE exam

### Math/Science Electives

BIOL 111	Unity and Diversity of Biology (note, cannot double count as Additional Sci)
BIOL 231*	Ecology
BIOL 233*	Environmental Problem Solving in Biology
BIOL 234*	Environmental Biology
BIOL 272*	Conservation Biology
BIOL 303*	Biodiversity and Ecosystem Function
BIOL 342*	Restoration Ecology
CHEM 201	Environmental Chemistry
GEOL 110	Environmental Geology
GEOL 115	An Introduction to Geology: Earth's Climate- Past, Present, and Future
GEOL 210*	Hydrogeology
GEOL 229*	Geographical Information Systems and Remote Sensing in Geosciences
GEOL 300*	Earth Surface Processes
MATH 286	Introduction to Probability and Mathematical Statistics
MATH 335	Probability
MATH 336	Statistics

PHYS 133

Physics II: Electricity, Magnetism and Waves

Related Electives (can be any from the above two lists, plus the courses list below):

A&S 201	Culture and the Environment
CE 204	Designing for People, Planet, and Profit
ECON 202*	Environmental Economics
ECON 340*	Environment and Resource Economics
EVST 215	Environmental Policy
EVST/ENGL 247	Nature Writing
EVST 253	Voices of Environmental Justice
EVST 290	Climate Change: The Facts, the Issues, and the Long Term View
EVST 315	Food, Culture, and Sustainable Societies
EVST/EGRS 373	Technology and Nature
EVST 375	Sustainability and the Urban Environment
EVST 380	Sustainability Internship
GOVT 231	Global Environmental Politics
HIST 252	Transformation of the American Environment
IA 240	Pursuing Global Sustainability
PHIL 155	Environmental Ethics
PHIL 175	Ethics of AI, Internet, and Algorithms