

ENVIRONMENTAL ENGINEERING

Environmental engineering uses the principles of biology, chemistry, and physics to develop solutions to environmental problems. Environmental engineers work on water pollution and air pollution control, recycling and sustainability, waste disposal, climate change, and public health issues.

What Do Environmental Engineers Do?

Environmental engineers work as consultants for governmental organizations, nonprofits, or in industry. They are responsible for municipal water supply and wastewater treatment in urban and rural areas. Environmental engineers also work to reduce risk from hazardous materials in the environment by designing safe disposal and remediation methods for contaminated soil, sediment, and water. They are not only concerned with local and regional issues, but work on problems of global significance, including the world water and sanitation crisis, the impacts of population growth, and climate change.

Specialization Tracks:

Sustainability—Learn principles to meet the needs of society without compromising the future. Develop expertise in green design, global climate change, and ecological engineering.

Coastal Engineering—Get prepared for a career in coastal engineering and ecosystem restoration.

Flex—Work with your advisor to create a track that meets your individual career interests. Take advantage of the flexibility to pursue interdisciplinary studies in civil engineering, chemical engineering, or other complimentary sciences.

PROGRAM FACTS

2020–2021 Enrollment: 130 Students

Student Organizations: AAEE—American Academy of Environmental Engineering; Engineers Without Borders



WERC DESIGN COMPETITION

Environmental Engineering students compete annually in the Wastemanagement Education Research Consortium Design Competition in Las Cruces, NM, working on tasks proposed by organizations including NASA, Intel, and the EPA. LSU competes against universities from across the US, producing awardwinning, prototype designs addressing real-world problems. In 2020, LSU brought home four awards, including the Judge's Choice Award for Community Involvement.

Environmental Engineering

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		General Ed: Humanities		General Ed: Arts
	General Ed: Humanities	Economics	General Ed: English Comp II	General Ed: English Comp I
	General Ed: Humanities	Geotechnical ENGR I (Soils)	Intro to Statistical Analysis	Calculus II
	Intro to Industrial Pollution Control	Geotechnical ENGR Lab	Elementary Differential Equations	Calculus I
	Ground Water	Fluid Mechanics Lab	Physics II: Fluids, Thermodynamics, Waves, Modern Physics	General Geology: Physical
	Hydrology	Quantitative Water Management	Organic Chemistry	General Chemistry Lab
	Environmental ENGR Elective	Water Resources ENGR	Fluid Mechanics	General Chemistry II
General Education	Environmental ENGR Elective	Water and Wastewater Treatment	Statics	General Chemistry I
Math	Unit Operations Lab	Water Quality Analysis Laboratory	Environmental ENGR Design Methods	Physics I: Particle Mechanics
Science	Senior Design II	Environmental Transport Processes	Environmental ENGR III	Biology I Lab
Other Engineering	Senior Design I	Global Issues with Environmental ENGR	Environmental ENGR II	Biology I
Major-specific Engineering	Design of Solid and Hazardous Waste Management Systems	Chemical Equilibrium and Kinetics of Environmental Processes	Environmental ENGR I	Introduction to Environmental ENGR
LEGEND	YEAR 4	YEAR 3	YEAR 2	YEAR 1

General Ed: Social Sciences