

Minor in Engineering Sustainability

Requirements

The Sustainability Minor requires a minimum of 15 credits of course work, including the required course CV_ENG 2800 Introduction to Engineering Sustainability, and a minimum of 12 credit hours from the list of approved emphasis area courses.

Required Core Courses

CV_ENG 2800	Introduction to Engineering Sustainability	3
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Approved Emphasis Area Courses

ARCHST 2323	Sustainable Building Design Fundamentals	3
ARCHST 4323	Sustainable Technologies and Systems	3
ARCHST 4325	Energy-Efficient Building Design	3
BIOL_EN 2600	Sustainability Foundations: An Introduction to Sustainability	3
BIOL_EN 4050	Zero Hunger Challenge	3
BIOL_EN 4150	Soil and Water Conservation Engineering	3
	or CV_ENG 4710 Soil and Water Conservation Engineering	
BIOL_EN 4160	Food Process Engineering	3
BIOL_EN 4250	Irrigation and Drainage Engineering	3
BIOL_EN 4315	Principles of Biochemical Engineering	3
	or CH_ENG 4315 Principles of Biochemical Engineering	
BIOL_EN 4316	Biomass Refinery Operations	3
	or CH_ENG 4316 Biomass Refinery Operations	
BIOL_EN 4350	Watershed Modeling Using GIS	3
	or CV_ENG 4720 Watershed Modeling Using GIS	
CH_ENG 4220	Hazardous Waste Management	3
CH_ENG 4285	Pollution Prevention	3
CH_ENG 4311	Chemodynamics	3
CH_ENG 4312	Air Pollution Control	3
CH_ENG 4318	Energy Technology and Sustainability	3
CV_ENG 3200	Fundamentals of Environmental Engineering	4
CV_ENG 3600	Civil Engineering Materials	4
CV_ENG 4145	Civil and Environmental Engineering Legal Issues	3
CV_ENG 4230	Introduction to Water Quality	3
CV_ENG 4250	Environmental Regulatory Compliance	3
CV_ENG 4286	Environmental Sustainability	3
CV_ENG 4406	Geotechnics of Landfill Design	3
CV_ENG 4710	Soil and Water Conservation Engineering	3
CV_ENG 4720	Watershed Modeling Using GIS	3
ENV_SC 2600	Sustainability Foundations: An Introduction to Sustainability	3
F_S 4160	Food Process Engineering	3
IMSE 4001	Topics in Industrial and Manufacturing Systems Engineering	3
IMSE 4580	Industrial Energy Efficiency and Management	3
IMSE 4720	Introduction to Life Cycle Analysis	3

THEMATIC ELECTIVE

The "Thematic Elective" or an experiential learning class involving independent individual or group service projects, study abroad projects and capstone courses with a sustainability-focus will be allowed as one of the approved emphasis area courses with special approval from the Minor Coordinator. A page-long "Thematic Elective" approval request should be sent to the Minor Coordinator and should include details of scope, content and justification of effort involved. The effort should be consistent with a 3-credit course. A written approval by the Minor Coordinator should be in-place before undertaking the Thematic Elective.

Contact:

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