

Environmental Engineering - Environmental Sustainability and Resilience, Ph.D.

Environmental Engineering, Ph.D., Environmental Sustainability & Resilience Track

Degree requirements for the Ph.D. in Environmental Engineering, Environmental Sustainability & Resilience Track:

- Ph.D. students must complete a total of 63 credit hours including: 24 to 36 hours of classroom graduate-level courses, 3 credit hours of graduate seminar (EVEN 6102), and 24 to 36 hours of research (EVEN 6306).
- Students should successfully complete the Ph.D. Qualifying Exam.
- Students should successfully defend the dissertation proposal and the final dissertation.
- The required courses for the Ph.D. track in Environmental Sustainability and Resilience will consist of the following courses:

Code	Title	Semester Credit Hours
Core Courses:		21
EVEN 6345	Environmtl Sustain&Resilience	3
EVEN 6347	Data Science for Next Generation of Community Researchers	3
EVEN 6349	Grad Prof Skills Developmt Lab	3
EVEN 6102	Grad Sem in Environmental Eng ^	3
Choose at least two (2) courses from the following:		6
EVEN 6308	Fundmnls Solid Hazardous Waste	
EVEN 6309	Fundmnls Air Qual&Polutn Contr	
EVEN 6316	Fundmnls of Environ Biotech	
EVEN 6319	Chem Prin of Envir Eng Design	
EVEN 6325	Physical-Chem Water Treatment	
Choose at least one (1) environmental modeling or data course from the following:		3
EVEN 6318	Environmental System Modeling	
EVEN 6332	Environmental Data Analysis	
PSYC/SOCI 5310	Data Analys in Social Research	
MEEN 6321	Adv Eng Data Analysis & Opt	
EDBL 6393	Adv Topics in Bilingual Ed II (Topic: Critical Ethnography & Education)	
EDBL 6393	Adv Topics in Bilingual Ed II (Topic: Qualitative Research Design)	
EDBL 6393	Adv Topics in Bilingual Ed II (Topic: Rapid Ethnographic Design)	
Proposal / Dissertation Research		24-36
EVEN 6306	Proposal/Dissertation Research	
Other graduate-level elective courses selected from the following:		6-18
EVEN 6304	Internship in Environ Eng *	
EVEN 6311	Air Quality Modeling	
EVEN 6312	Surface Water Quality Modeling	
EVEN 6313	Groundwater Contamin Transport	
EVEN 6329	Environ Monitor and Measurmnts	
EVEN 6340	Decision Sci for Environ Systm	
EVEN 6341	Enviromental Informatics	
EVEN 6354	Environmental Regs & Policy	
EVEN 6356	Spec Top in Environmental Eng	
EVEN 6356	Spec Top in Environmental Eng (Topic: Environmental Exposure Assessment)	
IEEN 5320	Fundamentals Sustainable Eng	
IEEN 5327	Adv Engineering Project Mnmt	
PSYC 5331	Lifestyles and Career Devel	
SOCI 5303	Advanced Research Methods	

EDBL 6393	Adv Topics in Bilingual Ed II (Topic: Posthumanism)	
EDBL 6393	Adv Topics in Bilingual Ed II (Topic: Curriculum Theory)	
GEOL 5312	Geographic Info Systems	
GEOL 5352	Remote Sensing	
RAMT 5351	Sys Apprch Natrl Res Prblm Sol	
TOTAL:		63 Credits

^ Must take EVEN 6102 three (3) times.

* Ph.D. students receiving funding from any active research grant or project can take internship/Co-op using EVEN 6304 only once during their study after nine semesters enrolled in the program with the approval of their research advisor and the department chair.