



ENVIRONMENTAL FOCUS AREA: Hydroscience

Department of Civil and Environmental Engineering

General Education (19 sh)			sh
ALL	RHET:1030 Rhetoric		4
F/S	Diversity & Inclusion		3
ALL	Be Creative		3
ALL	Approved Gen Ed Course		3
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	ENVS:2673/BIO:2673 Ecology		3
	ENVS:3020/EES:3020/GEOG:3020 Earth Surface Processes	Pick	3
ALL	GEOG:2050 Foundations of GIS	One	4
	GEOG:3500/IGPI:3500 Introduction to Environmental Remote Sensing		3
Math & Basic Science Core (24 sh)			sh
F/S	MATH:1550 Math I: Single Variable Calculus (P: ALEKS score ≥ 75 or MPT Level 3 score ≥ 9)		4
ALL	MATH:1560 Math II: Multivariable Calculus (P: MATH:1550)		4
ALL	MATH:2550 Math III: Matrix Algebra (P: MATH:1550)		2
ALL	MATH:2560 Math IV: Differential Equations (P: MATH:1560 & MATH:2550)		3
F/S	STAT:2020 Probability & Statistics For Engr & Phys Sci (P: MATH:1560)		3
ALL	CHEM:1110 Principles of Chemistry I (P: ALEKS score ≥ 55 or MPT Level 3 score ≥ 9)		4
ALL	PHYS:1611 Introductory Physics I / Lab (C: MATH:1550)		4
Engineering Core (7 sh)			sh
F	ENGR:1000 Engineering Success for First-Year Students (First semester standing)		1
F	ENGR:1100 Intro to Engineering Problem Solving		3
F/S	ENGR:1300 Intro to Engineering Computing (C: MATH:1550)		3
EnvE Requirements (58 sh)			sh
ALL	BIO:1411 Foundations of Biology (P: CHEM:1110)		4
ALL	CHEM:1120 Principles of Chemistry II (P: CHEM:1110 with a minum grade of C-)		4
ALL	CHEM:2210 Organic Chemistry I (no lab required)		3
ALL	ENGR:2110 Statics (P: MATH:1550; C: MATH:1560 & PHYS:1611)		2
ALL	ENGR:2130 Thermodynamics (P: CHEM:1110 & PHYS:1611; C: MATH:1560)		3
F/S	ENGR:2510 Fluid Mechanics (P: MATH:2560 & ENGR:2710; C: ENGR:2130)		4
ALL*	ENGR:2710 Dynamics (P: ENGR:2110 & MATH:1550)		3
ALL*	ENGR:2720 Materials Science (P: CHEM:1110; C: MATH:1550)		3
ALL	EES:1080 Introduction to Environmental Science (no lab required)		3
S	CEE:3155 Principles of Environmental Engineering (with Lab) (P: CHEM:1110)		4
S	CEE:3371 Principles of Hydraulics and Hydrology (P: ENGR:2510)		3
S	CEE:3430 Water Treatment (with Lab) (P: ENGR:2510 & CEE:3155)		4
F	CEE:4102 Groundwater		3
F	CEE:4150 Environmental Chemistry (P: CHEM:1120)		3
F	CEE:4157 Environmental Engineering Design (P: CEE:3155)		3
F	CEE:4158 Solid and Hazardous Wastes		3
S	CEE:4159 Air Pollution Control Technology		3
F	CEE:4374 Water Resources Design (P: CEE:3371)		3
CEE Capstone Design Courses (3 sh)			sh
F/S	CEE:4850 Project Design & Management in CEE (P: final semester; C: CEE:3003)		3
CEE Professional Skills (4 sh)			sh
S	CEE:1010 Introduction to Careers in Env. Engineering		0
S	CEE:2010 Professional Practice and Ethics		1
F	CEE:3001 Leadership Skills for Engineers (junior standing)		1
S	CEE:3002 Technical Communication in CEE (sophomore standing)		1
F	CEE:3003 Project Management Skills (senior standing)		1

Required: Hydroscience (7 sh)			sh
ALL	EES:1081 Introduction to Environmental Science Lab		1
F	CEE:4119 Hydrology (P: ENGR:2510)		3
S	CEE:4371 Water Resources Engineering (C: CEE:3371)		3
Electives: Hydroscience (9 sh)			sh
Electives: Focus Area, Minor, Certificate, etc.			sh
select 1 course from the list below			
	EES:3110 Chemical Evolution of the Oceans		3
	CEE:3328 Fluvial Geomorphology		3
	EES:3390 Integrated Watershed Analysis		3
	EES:4490 Elements of Geochemistry		3
	EES:4630 Hydrogeology		4
	EES:4790 Applied Environmental Geology		3
Electives: Focus Area, Minor, Certificate, etc.			sh
select 1 course from the list below			
	EES:4680 Field Methods in Hydrologic Science		3
	GEOG:4010 Field Methods in Physical Geography		3
Electives: Focus Area, Minor, Certificate, etc.			sh
select 1 course from the list below			
	Additional EES or ENVS course to satisfy the 15 sh Minor requirements		3

Students in the Focus Area will receive a Minor in Environmental Sciences. Students must enroll in the minor through the Earth and Environmental Sciences department.

Total Semester Hours Requirements: 130