

Gen	General Education (19 sh)	
ALL	RHET:1030 Rhetoric	4
F/S	Diversity & Inclusion	3
ALL	Be Creative	3
ALL	Approved Gen Ed Course	3
ALL	Approved Gen Ed Course	3
ALL	GEOG:2050 Foundations of GIS	4

Mat	h & Basic Science Core (24 sh)	sh
=/S	MATH:1550 Math I: Single Variable Calculus (P: ALEKS score ≥ 75 or MPT Level 3 score ≥ 9)	
ALL	MATH 1560 Math II: Multivariable Calculus (P: MATH: 1550)	
ALL	MATH:2550 Math III: Matrix Algebra (P: MATH:1550)	
ALL	MATH:2560 Math IV: Differential Equations (P: MATH:1560 & MATH:2550)	:
F/S	STAT:2020 Probability & Statistics For Engr & Phys Sci (P: MATH:1560)	:
ALL	CHEM:1110 Principles of Chemistry I (P: ALEKS score \geq 55 or MPT Level 3 score \geq 9)	4
ALL	PHYS:1611 Introductory Physics I / Lab (C: MATH:1550)	
Eng	ineering Core (7 sh)	sł
F	ENGR:1000 Engineering Success for First-Year Students (First semester standing)	
F	ENGR:1100 Intro to Engineering Problem Solving	3
F/S	ENGR:1300 Intro to Engineering Computing (C: MATH:1550)	3
Env	E Requirements (58 sh)	sł
ALL	BIOL:1411 Foundations of Biology (P: CHEM:1110)	
ALL	CHEM:1120 Principles of Chemistry II (P: CHEM:1110 with a minum grade of C-)	
ALL	CHEM:2210 Organic Chemistry I (no lab required)	
ALL	ENGR:2110 Statics (P: MATH:1550; C: MATH:1560 & PHYS:1611)	
ALL	ENGR:2130 Thermodynamics (P: CHEM:1110 & PHYS:1611; C: MATH:1560)	
F/S	ENGR:2510 Fluid Mechanics (P: MATH:2560 & ENGR:2710; C: ENGR:2130)	
ALL*	ENGR:2710 Dynamics (P: ENGR:2110 & MATH:1550)	
ALL*	ENGR:2720 Materials Science (P: CHEM:1110; C: MATH:1550)	
ALL	EES:1080 Introduction to Environmental Science (no lab required)	
S	CEE:3155 Principles of Environmental Engineering (with Lab) (P: CHEM:1110)	
S	CEE:3371 Principles of Hydraulics and Hydrology (P: ENGR:2510)	
S	CEE:3430 Water Treatment (with Lab) (P: ENGR:2510 & CEE:3155)	
F	CEE:4102 Groundwater	
F	CEE:4150 Environmental Chemistry (P: CHEM:1120)	
F	CEE:4157 Environmental Engineering Design (P: CEE:3155)	
F	CEE:4158 Solid and Hazardous Wastes	
S	CEE:4159 Air Pollution Control Technology	
F	CEE:4374 Water Resources Design (P: CEE:3371)	
CEE	Capstone Design Courses (3 sh)	sl
F/S	CEE:4850 Project Design & Management in CEE (P: final semester; C: CEE:3003)	:
CEF	Professional Skills (4 sh)	s
s	CEE:1010 Indtroduction to Careers in Env. Engineering	,

S	CEE:1010 Indtroduction 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

ENVIRONMENTAL FOCUS AREA:

Ecological Engineering

Department of Civil and Environmental Engineering

Req	quired: Ecological Engineering (3 sh)	sh
S	BIOL:2673 Ecology	3

Elec	ctives: Ecological Engineering (12 sh)	sh		
Elect	Electives: Focus Area, Minor, Certicate, etc.			
select 4 courses from the list below				
F	GEOG:3340 Ecosystem Services (P: GEOG:2050 and (GEOG:2374 or EES:1080 or BIOL:2673 or BIOL:137)	3		
F	GEOG:3500 Intro to Environmental Remote Sensing	3		
F/S	GEOG:3920 Planning Livable Cities	3		
S	GEOG:3350 Urban Ecology (P: BIOL:2673 or GEOG:2374)	3		
S	GEOG:3539 Environmental (In)Justice in Latin America	3		
F	GEOG:4000 The UN Sustainable Development Goals	3		
F	GEOG:4150 Health and Environment: GIS Applications	3		
F	GEOG:4200 Sustainability as a System Science	3		
S	GEOG:4310 Climate Change (P: EES:1080)	3		
	Any 3000 level or above course(s) in GEOG			

Students in the Focus Area will receive a Minor in Geography. Students must enroll in the minor through the Geographical and Sustainability Sciences department.

Total Semester Hours Requirements: 130