

Gen	eral Education (19 sh)	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	Approved Gen Ed Course	3		
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Mat	Math & Basic Science Core (24 sh) sl			
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		
Fng	ineering Core (7 sh)	sh		
F	•			
F	ENGR:1000 Engineering Success for First-Year Students (First semester standing)	1		
-	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)	sh		
ALL	BIOL: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		
CEF	Capstone Design Courses (3 sh)	sh		
F/S	CEE:4850 Project Design & Management in CEE (P: final semester; C: CEE:3003)	311		
1/3	CLE.4630 Floject Design & Management in CLE (r. jinus semester, c. CEE.5005)	3		
CEE	Professional Skills (4 sh)	sh		
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:**

## **Informatics**

Department of Civil and Environmental Engineering

Req	uired: Informatics (10 sh)	sh		
F	CS:2110 Programming for Informatics (P: ENGR:1300)	4		
S	CS:2420 Analyzing Data for Informatics (P: CS:2110)	3		
S	CS:2520 Human-Computer Interaction for Informatics (P: CS:2110, STAT:2020)	3		
Elec	ctives: Informatics (6 sh)	sh		
Elect	ives: Focus Area, Minor, Certicate, etc.	sh		
select 2 courses from the list below				
	Any 3000 level or above course(s) in CEE			
F	CEE:2015 Civil Engineering Tools	2		
S	ISE:2500 Engineering Economy (C: STAT:2020)	3		
F/S	ENGR:2995 Intro to AI & Machine Learning in Engineering (P: ENGR:1300; C: MATH:2550)	3		
F/S	ENGR:2730 Computers in Engineering (P: ENGR:1300)	3		
F/S	GEOG:1050 Foundations of GIS	4		
S	GEOG:3210 Health Work and Environment	3		
F/S	OEH:4240 Global Environmental Health	3		
F	ECON:3625 Environmental and Natural Resources Economics (P: ECON:1100& ECON:1200)	3		
	All other course(s) require approval for Focus Area credit			
	(see CEE web site regarding the approval process)			
Students in the Focus Area will receive a Minor in Infomatics. Students must enroll in the minor through Computer Science.				

Total Semester Hours Requirements: 130