

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
Mat	h & Basic Science Core (24 ch)	ch
IVIAL		311
F/S	MATH: 1550 Math I: Single Variable Calculus (<i>P: ALEKS score</i> \geq 75 or MPT Level 3 score \geq 9)	4
ALL	MATH 1560 Math II: Multivariable Calculus (P: MATH:1550)	4
ALL	MATH 2550 Math III: Matrix Algebra (P: MATH:1550)	2
	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	CHEWI: 1110 Principies of Chemistry I (P: ALEKS score 2 55 or MPT Level 3 score 2 9)	4
ALL	PHYS:1611 Introductory Physics I / Lab (C: MATH:1550)	4
Engi	ineering 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
Civil Engineering Requirements (45 sh)		sh
ALL	CHEM:1120 Principles of Chemistry II (P: CHEM:1110)	4 O
F/S	PHYS:1612 Introductory Physics II / Lab (P: PHYS:1611; C: MATH:1560)	4
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:2750 Mechanics of Deformable Bodies (P: ENGR:2110; C: MATH:2560)	3
ALL	CEE:1030 Intro to Earth Science (no lab required)	3
F	CEE:2015 Civil Engineering Tools	2
S	CEE:3155 Principles of Environmental Engineering (P: CHEM:1110)	4
S	CEE:3371 Principles of Hydraulics and Hydrology (P: ENGR:2510)	3
F	CEE:3530 Geomechanics (P: ENGR:2750)	4
F	CEE:3533 Principles of Structural Engineering (P: ENGR:2750)	4
S	CEE:3586 Civil Engineering Materials (P: ENGR:2750)	3
S	CEE:3763 Principles of Transportation Engineering (C: ENGR:1100)	3
Can	stone Design Courses (2 ch)	sh
	CEE:4050 Design Courses (3 Sil)	311
F/5	CEE:4850 Project Design & Management in CEE (P: jindi semester; C: CEE:3003)	3
CEE	Professional Skills (4 sh)	sh
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 (junior standing)	1
F	CEE:3003 Project Management Skills (senior standing)	1

CIVIL FOCUS AREA: Informatics

Department of Civil and Environmental Engineering

OR

Required: Informatics (10 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		
Electives: Informatics (18 sh) s				
CEE Design Course* sh				
select 2 courses from the list below				
F	CEE:4157 Environmental Engineering Design (P: CEE:3155)	3		
F	CEE:4374 Water Resource Design (P:CEE:3371)	3		
F	CEE:4506 Design of Concrete Structures (P:CEE:3533)	3		
S	CEE:4535 Design of Steel Structures (P: CEE:3533)			
F	CEE:4762 Design of Transportation Systems (P: CEE:3763)	3		
Electi	ves: Focus Area, Minor, Certicate, etc.	sh		
select	2 courses from the list below			
	Any additional CEE Design Course(s) listed above			
S	CEE:3783 Surveying & Remote Sensing (P: ENGR:1100)	3		
S	CEE:3790 Resilient Infrastructure and Emergency Response	3		
F	CEE:4102 Groundwater	3		
F	CEE:4158 Solid and Hazardous Wastes	3		
S	CEE:4159 Air Pollution Control Technology	3		
F	CEE:4119 Hydrology (P: ENGR:2510)	3		
S	CEE:4371 Water Resources Engineering (C: CEE:3371)	3		
F	CEE:4539 Foundations of Structures (P: CEE:3530)	3		
F	CEE:4763 Traffic Engineering (P: CEE:3763)	3		
	Any additional 3000 level or above elective course(s) in CEE			
-1				
Electi	ves: Focus Area, Minor, Certicate, etc.	sh		
select	A reveal distinged CEE Design Course (a) listed a have			
	Any additional CEE Design Course(s) listed above			
c		2		
с 5	ISE:2500 Engineering Economy (C:STAT:2020) ENGE:2005 Intro to ALS. Machina Loarning in Engineering (D:ENGE:1000: C:MATU/2550)	3		
г/З с/с	ENGR:2395 Intro to Al & Machine Learning in Engineering (P: ENGR:1300; C: MATH:2550)	2		
1/5	Any pre-approved pop-engineering Focus Area course(s)	5		
	Any pre-approved non-engineering rocus Area course(s) (see CFE web site for list of pre-approved courses)			
	All other course(s) require approval for Focus Area credit			
	(see CFF web site regarding the approval nor rocus)			
	(

Students in the Focus Area will receive a Minor in Infomatics. Students must enroll in the minor through Computer Science.

Total Semester Hour Requirements: 129