

CIVIL ENGINEERING PROGRAM (Effective Fall 2017)

1 st Year	Session	Course	Course Name	SH	P: Prerequisite; C: Corequisite
	F/S	Math:1550	Engineering Math I: Single Variable Calculus	4	P: HS Algebra & Trigonometry; Score of 80 on ALEKS
	F	ENGR:1100	Engineering Problem Solving I	3	
	ALL	CHEM:1110	Principles of Chemistry I	4	
	ALL	RHET:1030	Rhetoric	4	
	F	ENGR:1000	Engr Success for First Year Students	1	First Semester Standing
Total				16	
	F/S	MATH:1560	Engineering Math II: Multi-Variable Calculus	4	P: MATH 1550
	F/S	ENGR:1300	Engineering Problem Solving II	3	C: MATH:1550
	ALL	PHYS:1611	Introductory Physics I	4	C: MATH:1550
	ALL	MATH:2550	Engineering Math III: Matrix Algebra	2	P: MATH:1550
	ALL		General Education Component #1	3	
2nd Year				TOTAL	16
	ALL	MATH2560	Engineering Math IV: Differential Equations	3	P:MATH:1560; MATH:2550
	F/S	PHYS:1612	Introductory Physics II	4	P:PHYS:1611; C:MATH:1560
	ALL	ENGR:2110	Engineering Fundamentals I:Statics	2	P:MATH:1550; C:MATH:1560; C:PHYS:1611
	F/S	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3	C:MATH:2560
	ALL	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3	P:CHEM:1110; PHYS:1611 C:MATH:1560
	ALL	CEE:1030	Intro to Earth Science (No Lab Required)	3	Sophomore Standing
Total				18	
	ALL	STAT:2020	Probability and Stat for Engineering & Phys Sci	3	P:MATH:1560
	ALL	ENGR:2710	Dynamics	3	P:ENGR:2110; MATH:1550
	ALL	ENGR:2750	Mechanics of Deformable Bodies	3	P:ENGR:2110; C:MATH:2560
	S	CEE:2010	CEE Professional Practice and Ethics	1	
	S	CEE:3763	Principles of Transportation	3	Sophomore Standing
	ALL		General Education Component #2	3	
3rd Year				Total	16
	F	CEE:2015	Civil Engineering Tools	2	
	F	CEE:3530	Geomechanics	4	P:ENGR:2750
	F	CEE:3533	Principles of Structural Engineering	4	P:ENGR:2750
	F/S	ENGR:2510	Fluid Mechanics	4	P:MATH:2560; ENGR:2710; C:ENGR:2130
	ALL		Elective Focus Area #1	3	
	F	CEE:3001	Leadership Skills for Engineers	1	Junior Standing
Total				18	
	S	CEE:3155	Principles of Environmental Engineering	4	P:CHEM:1100
	S	CEE:3371	Principles of Hydraulics and Hydrology	3	P:ENGR:2510
	S	CEE:3586	Civil Engineering Materials	3	P:CEE:3530
	ALL		Elective Focus Area #2	3	
	ALL		General Education Component #3	3	
	S	CEE:3002	Technical Communication in CEE	1	Junior Standing
4th Year				Total	17
	F		Civil and Env. Engr Design Course*	3	
	F		Civil and Env. Engr Design Course	3	
	ALL		Elective Focus Area #3	3	
	ALL		Elective Focus Area #4	3	
	ALL		General Education Component #4	3	
	F	CEE:3003	Project Management Skills	1	Senior Standing
Total				16	
	F/S	CEE:3084	Project Design & Management in CEE	3	P:CEE:3533; CEE:3763; CEE:3371; CEE:3003
	ALL		Elective Focus Area #5	3	
	ALL		Elective Focus Area #6	3	
	ALL		Elective Focus Area #7	3	
	ALL		General Education Component #5	3	
Total				15	

*Design Courses: CEE:4374 Water Resource Design; CEE:3136 Design of Concrete Structures; CEE:4157 Environmental Design; CEE:4762 Design of Transportation Systems; CEE:4535 Design of Steel Structures. Design courses must be taken from two different technical areas.