CIVIL ENGINEERING PROGRAM

1st Year	Session	Course	Course Name	SH	P: Prerequisite; C: Corequisite
	F	ENGR:1000	Engr Success for First Year Students	1	First Semester Standing
	F	ENGR:1100	Introduction to Engineering Problem Solving	3	
	ALL	CHEM:1110	Principles of Chemistry I	4	
	F/S	MATH:1550	Engineering Math I: Single Variable Calculus	4	P: ALEKS Scores of ≥75 -OR- MPT 3 Score of ≥9
	ALL	RHET:1030	Rhetoric	4	
			Total	**16**	
	F/S	ENGR:1300	Introduction to Engineering Computing	3	C: MATH:1550
	ALL	MATH:1560	Engineering Math II: Multi-Variable Calculus	4	P: MATH:1550
	ALL	MATH:2550	Engineering Math III: Matrix Algebra	2	P: MATH:1550
	ALL	PHYS:1611	Introductory Physics I	4	C: MATH:1550
	ALL		General Education Component #1	3	
2nd Year			**Total**	**16**	
	ALL	CEE:1030	Intro to Earth Science (No Lab Required)	3	
	ALL	ENGR:2110	Engineering Fundamentals I: Statics	2	P: MATH:1550; C:MATH:1560; PHYS:1611
	ALL	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	MATH:2560	Engineering Math IV: Differential Equations	3	P: MATH:1560; MATH:2550
	F/S	PHYS:1612 -OR-	Introductory Physics II -OR-	4	P: PHYS:1611; C: MATH:1560 (for PHYS:1612)
	ALL	CHEM:1120	Principles of Chemistry II	4	P: CHEM:1110 minimum grade C- (for CHEM:1120)
			Total	**18**	
	S	CEE:2010	CEE Professional Practice and Ethics	1	
	S	CEE:3763	Principles of Transportation Engineering	3	Sophomore Standing
	ALL	ENGR:2710	Dynamics	3	P: ENGR:2110; MATH:1550
	ALL	ENGR:2750	Mechanics of Deformable Bodies	3	P: ENGR:2110; C: MATH:2560
	ALL	STAT:2020	Probability and Stat for Engr and Phys Sci	3	P: MATH:1560
	ALL		General Education Component #2	3	
3rd Year			**Total**	**16**	
	F	CEE:2015	Civil Engineering Tools	2	
	F	CEE:3001	Leadership Skills for Engineers	1	Junior Standing
	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	
			Total	**18**	
	S	CEE:3002	Technical Communication in CEE	1	Junior Standing
	S	CEE:3155	Principles of Environmental Engineering	4	P: CHEM:1110
	S	CEE:3371	Principles of Hydraulics and Hydrology	3	P: ENGR:2510
	S	CEE:3586	Civil Engineering Materials	3	P: ENGR:2750
	ALL		Elective Focus Area #2	3	
	ALL		General Education Component #3	3	
4th Year			**Total**	**17**	
	F	CEE:3003	Project Management Skills	1	Senior Standing
	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	
			Total	**16**	
	F/S	CEE:4850	Project Design & Management in CEE	3	P: Final Semester; C: 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:4762 Design of Transportation Systems; CEE:4535 Design of Steel Structures OR CEE:4506 Design of Concrete Structures; CEE:4374 Water Resource Design; CEE:4157 Environmental Design.
Design courses must be taken from two different technical areas.

Spring 2020