

Civil Engineering- Civil

1 st YEAR	Session	Course	Civil Engineering - Civil	SH	Pre-Requisite or /Co-Requisite
1 st Semester	All	22M:031	Engineering Math I – Single Variable Calculus	4	P H.S. Algebra & Trigonometry
	F	059:005	Engineering Problem Solving I	3	
	All	004:011	Principles of Chemistry I	4	
	All	010:003	Accelerated Rhetoric (or 010:001 & 010:002)	4	
	F	059:090	First-year Engineering Seminar	1	First semester standing
Total				16	
2 nd Semester	All	22M:032	Engineering Math II – Multivariable Calculus	4	P: 22M:031
	S	059:006	Engineering Problem Solving II	3	C: 22M:031
	F/S	029:081	Introductory Physics I	4	C: 22M:031
	All	22M:033	Engineering Math III – Matrix Algebra	2	P: 22M:031
	All		General Education Component #1	3	
Total				16	
1 st Semester	All	22M:034	Engineering Math IV – Differential Equations	3	P: 22M:032 and 22M:033
	F/S	029:082	Introductory Physics II	4	P: 029:081; C: 22M:032
	All	059:007	Engineering Fundamentals I – Statics	2	P: 22M:031; C: 029:081, 22M:032
	F/S	059:008	Engineering Fundamentals II – Electrical Circuits	3	C: 22M:034
	All	059:009	Engineering Fundamentals III – Thermodynamics	3	P: 004:011, 029:081; C: 22M:032
	F	053:015	Civil and Environmental Engineering Practice	2	
Total				17	
2 nd Semester	F/S	22S:039	Probability & Statistics for Civil Engineers	3	P: 22M:032
	S	057:010	Dynamics	3	P: 22M:031, 059:007
	S	053:050	Natural Environmental Systems	3	P: 004:011
	S	057:019	Mechanics of Deformable Bodies	3	P: 059:007; C: 22M:034
	S	053:105	Engineering Geology	3	Sophomore standing
	All		General Education Component #2	3	
	S	053:020	Sophomore Seminar: Civil and Environmental Engineering	0	Sophomore Standing
Total				18	
1 st Semester	F	053:030	Soil Mechanics	3	P: 057:019
	F	053:033	Principles of Structural Engineering	3	P: 057:019
	F/S	057:020	Fluid Mechanics	4	P: 22M:034, 057:010; C: 059:009
	F	053:063	Principles of Transportation Engineering	3	P: 053:015
	All		Elective Focus Area #1	3	
	F/S	053:091	Professional Seminar: Civil Engineering	0	Junior Standing
Total				16	
2 nd Semester	S	053:055	Principles of Environmental Engineering	4	P: 053:050
	S	053:071	Principles of Hydraulics & Hydrology Engineering	3	P: 057:020
	S	053:086	Civil Engineering Materials	3	P: 053:030; C: 059:007, 057:019
	All		General Education Component #3	3	
	All		Elective Focus Area #2	3	
	F/S	053:091	Professional Seminar: Civil Engineering	0	Junior Standing
Total				16	
1 st Semester	F		Civil and Environmental Engineering Design Course*	3	
	F		Civil and Environmental Engineering Design Course*	3	
	All		General Education Component #4	3	
	All		Elective Focus Area #3	3	
	All		Elective Focus Area #4	3	
	F/S	053:091	Professional Seminar: Civil Engineering	0	Junior Standing
Total				15	
2 nd Semester	S	053:084	Project Design & Management in Civil Engineering	3	P: 053:033, 053:063, 053:071
	All		General Education Component #5	3	
	All		Elective Focus Area #5	3	
	All		Elective Focus Area #6	3	
	All		Elective Focus Area #7	3	
	F/S	053:091	Professional Seminar: Civil Engineering	0	Junior Standing
Total				15	

*Design Courses include (Choose Two):

Environmental Engineering Design: 053:157, Water resource Design: 053:174, and Design of Concrete Structures: 053:136