

# Civil Engineering- Environmental

1 <sup>st</sup> YEAR	Session	Course	Civil Engineering - Civil	SH	Pre-Requisite or /Co-Requisite
1 <sup>st</sup> 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
<b>Total</b>				<b>16</b>	
2 <sup>nd</sup> 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	004:012	Principles of Chemistry II	4	P:004:011
<b>Total</b>				<b>17</b>	
1 <sup>st</sup> Semester	All	22M:034	Engineering Math IV - Differential Equations	3	P 22M:032 and 22M:033
	All		General Education Component #1	3	
	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 22M:032, 004:011, 029:081
	F	053:015	Civil and Environmental Engineering Practice	2	
<b>Total</b>				<b>16</b>	
2 <sup>nd</sup> 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	Geology for Engineers	3	Sophomore Standing
	All		General Education Component #2	3	
	S	053:020	Sophomore Seminar: Civil and Environmental Engineering	0	Sophomore Standing
<b>Total</b>				<b>18</b>	
1 <sup>st</sup> 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
	F	053:152	Environmental Chemistry (Elective Focus Area 1)	3	P: 004:012
	F/S	053:091	Professional Seminar: Civil Engineering	0	Junior Standing
<b>Total</b>				<b>16</b>	
2 <sup>nd</sup> 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	C 057:019 and 053:030
	All		General Education Component #3	3	
	All		Elective Focus Area #2	3	
	F/S	053:091	Professional Seminar: Civil Engineering	0	Junior Standing
<b>Total</b>				<b>16</b>	
1 <sup>st</sup> Semester	F	053:157	Environmental Engineering Design	3	P: 053:050, 053:071, 053:055
	F		CEE 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
<b>Total</b>				<b>15</b>	
2 <sup>nd</sup> Semester	S	053:084	Project Design & Management in Civil Engineering	3	P: 053:033, 053:063, 053:050, 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	
<b>Total</b>				<b>15</b>	

\*Design Courses include (Choose one)

Water resource Design: 053:174, and Structural Design of Concrete I: 053:136