

Typical Course Schedule for the Civil Engineering Major

FIRST YEAR

<u>First Semester</u>	<u>Hours</u>
Math 180 –Calculus I	5
Chem 112—General College Chemistry I	5
Humanities-social sciences elective	3
Engl 160 – English Composition I	3
Engr 100 –Orientation	1
<i>Engr 100 awards no credit towards graduation.</i>	
Total Hours	17

<u>Second Semester</u>	<u>Hours</u>
Math 181 –Calculus II	5
Phys 141 –General Physics I (Mechanics)	4
Engl 161 –English Composition II	3
ME250 –Engineering Graphics and Design	3
Humanities-social sciences elective	3
Total Hours	18

SECOND YEAR

<u>First Semester</u>	<u>Hours</u>
Math 210 –Calculus III	3
Phys 142 –General Physics II (Electricity And Magnetism)	4
CEMM 201 –Statics	3
CS 108 –Fortran Programming for Engineers	3
IE 201 –Engineering Economy	3
Total Hours	16

<u>Second Semester</u>	<u>Hours</u>
Math 220 – Introduction to Differential Equations	3
Phys 244 –General Physics III (Modern Physics)	3
CEMM 203 –Strength of Materials	3
ME 210 –Engineering Dynamics	3
ME 211 –Fluid Mechanics I	3
Total Hours	15

THIRD YEAR

<u>First Semester</u>	<u>Hours</u>
CEMM 205 –Structural Analysis I	3
CEMM 216 –Environmental Engineering	3
CEMM 302 –Transportation Engineering	3
CEMM 315 –Soil Mechanics and Laboratory	4
Humanities-social sciences elective	3
Total Hours	16

<u>Second Semester</u>	<u>Hours</u>
CEMM 310 –Design of Reinforced Concrete Structures	3
CEMM 215 –Hydraulics and Hydrology	3
ME 205 or ECE 210	3
CEMM 260 –Properties of Materials	3
CEMM 300 –Composition and Properties of Concrete	2
Humanities-social sciences elective	3
Total Hours	17

FOURTH YEAR

<u>First Semester</u>	<u>Hours</u>
CEMM 301 –Behavior and Design of Metal Structures	3
Elective outside of the major rubric	3
CEMM 396 –Senior Design I	3
CEMM 434 –Finite Element Analysis I	3
Technical electives	3
Total Hours	15

<u>Second Semester</u>	<u>Hours</u>
CEMM 397 –Senior Design II	3
<i>Students must complete CEMM 396 before taking CEMM 397.</i>	
Technical electives	3
Elective outside of the major rubric	3
CEMM 402 – Geometric Design of Highway Facilities	3
CEMM 405 –Foundation Analysis & Design	3
Total Hours	15