

## Civil Concentration Guideline

### FIRST YEAR

<u>FALL</u>		<u>SPRING</u>	
CHEM 105 Chemistry	4	MATH 112 Calculus II	4
MATH 111 Calculus I	4	PHYS 211 General Physics I	4
ENGR 102 Intro to Engineering	2	ENGR 101 Engineering Graphics	2
IDFY 101 First Year Seminar	3	ENGR 236 Circuits I	4
General Education	3	IDCR 151 Created & Called for Community	3
	<hr/> 16		<hr/> 17

### SECOND YEAR

<u>FALL</u>		<u>SPRING</u>	
MATH 211 Calculus III	4	<sup>1</sup> MATH 270 Advanced Math for Sciences	3
PHYS 212 General Physics II	4	ENGR 201 Group Orientation	1
ENGR 231 Engineering Statics	3	ENGR 254 Materials Engineering	4
General Education	6	PHED 101 Introduction to Wellness	2
	<hr/> 17	<sup>2</sup> ENGR 333 Mechanics of Materials	3
		General Education	3
		Physical Fitness	1
			<hr/> 17

### THIRD YEAR

<u>FALL</u>		<u>SPRING</u>	
ENGR 288 Project I	1	ENGR 290 Engineering Economics	2
ENGR 301 Seminar I	1	ENGR 302 Seminar II	1
ENGR 242 Experimental Methods	3	ENGR 372 Fluid Mechanics	4
ENGR 351 Analysis & Dynamics of Structures	4	ENGR 352 Design of Concrete Structures	3
ENGR 321 Environmental Engineering	4	ENGR 388 Project II	1
General Education	3	ENGR 358 Construction Methods and Materials	3
	<hr/> 16	General Education	3
			<hr/> 17

### FOURTH YEAR

<u>FALL</u>		<u>SPRING</u>	
ENGR 452 Design of Steel Structures	3	ENGR 357 Transportation Engineering	3
ENGR 355 Soil Mechanics & Foundation Des.	3	ENGR 489 Project IV	2
ENGR 322 Water Resources Engineering	3	General Education	9
ENGR 488 Project III	2		<hr/> 14
General Education	6		
	<hr/> 17		

Total Credits: 131

This guideline applies to students who entered the Engineering curriculum during the 2013-14 academic year.

Common exceptions for students matriculating during the 2012-13 academic year:

ENGR 232 *Engineering Dynamics* may be taken, but will not count towards the Civil Engineering Concentration

<sup>1</sup>MATH 270 *Advanced Math for the Sciences* may be replaced by both MATH 261 *Linear Algebra* AND MATH 308 *Differential Equations*

<sup>2</sup>ENGR 333 *Mechanics of Materials* may be taken in the 5th semester, concurrent with ENGR 351 *Analysis and Dynamics of Structures*