

# CIVIL ENGINEERING CURRICULUM

Freshman Year - Fall		
Course	Description	Cr
CHM 101	General Chem I Lecture	3
CHM 102	General Chem I Lab	1
EGR 105	Foundations of Engineering I	1
MTH 141	Intro Calculus w/Analytic Geometry	4
PHY 203	Elementary Physics I Lecture	3
PHY 273	Elementary Physics I Lab	1
	General Education Elective	3
		<b>16</b>
Sophomore Year - Fall		
CVE 205	Intro to Civil Engineering Tools	1
MCE 262	Statics	3
MTH 243	Calculus for Functions of Several Variables	3
GEO 103	Understanding the Earth	4
	General Education Elective	3
	General Education Elective	3
		<b>17</b>
Junior Year - Fall		
CVE 346	Transportation Engineering	3
CVE 354	Structural Analysis	3
CVE 355	Structural Analysis Lab	1
CVE 374	Environmental Engineering	3
CVE 381	Geotechnical Engineering	3
CVE 382	Geotechnical Engineering Lab	1
MCE 354	Fluid Mechanics	3
		<b>17</b>
Senior Year - Fall		
CVE 465	An. & Des. of Concrete Structures	3
CVE 497	Civil Engineering Design I	2
	Professional Elective**	3
	Professional Elective**	3
	General Education Elective	3
		<b>14</b>

Freshman Year - Spring		
Course	Description	Cr
ECN 201	Principles of Microeconomics	3
EGR 106	Foundations of Engineering II	2
MTH 142	Intermed Calculus w/Analytic Geometry	4
PHY 204	Elementary Physics II Lecture	3
PHY 274	Elementary Physics II Lab	1
	General Education Elective	3
		<b>16</b>
Sophomore Year - Spring		
MTH 244	Differential Equations	3
CVE 220	Mechanics of Materials	3
CVE 230	Mechanics of Materials Laboratory	1
MCE 263	Dynamics	3
	General Education Elective	3
	General Education Elective	3
		<b>16</b>
Junior Year - Spring		
CVE 370	Hydraulic Engineering	3
CVE 375	Environmental Engineering Lab	1
CVE 347	Highway Engineering	3
CVE 348	Highway Engineering Lab	1
STA 409	Statistics	3
	General Education Elective	3
	Engineering Elective*	3
		<b>17</b>
Senior Year - Spring		
CVE 483	Foundation Engineering	3
CVE 498	Civil Engineering Design II	3
	Professional Elective**	3
	Professional Elective**	3
	Free Elective***	3
	Take FE Exam	<b>15</b>

**TOTAL CREDIT HOURS 128**

\* Select a course from the list in the Civil Engineering Undergraduate Student Handbook (ELE220, IME404, MCE341)

\*\* Three of the 12 credits must be one of the following courses: CVE 470, 471, 475, 478.

The remaining 9 credits are to be selected from the list in the Civil Engineering Undergraduate Student Handbook

\*\*\* Recommend a CVE professional elective to satisfy this requirement.