

CIVIL ENGINEERING - Class of 2012

Total Credits = **129**

Freshman Year 1st Semester (16 Credits)

Course Code	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	

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Freshman Year 2nd Semester (16 Credits)

Course Code	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	

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Sophomore Year 1st Semester (15 Credits)

Course Code	Description	Cr	
MTH 243	Calculus for Functions of Several Variables	3	
MCE 262	Statics	3	
CVE 240	Geomatics	2	
CVE 241	Geomatics Lab	1	
CVE 250	CADD for Civil Engineers	3	
	General Education Elective	3	

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Sophomore Year 2nd Semester (17 Credits)

Course Code	Description	Cr	
MTH 244	Differential Equations	3	
CVE 220	Mechanics of Materials	3	
CVE 221	Mechanics of Materials Lab	1	
MCE 263	Dynamics	3	
GEO 103	Understanding the Earth	4	
	General Education Elective	3	

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Junior Year 1st Semester (18 Credits)

Course Code	Description	Cr	
CVE 346	Transportation Engineering	3	
CVE 354	Structural Analysis	3	
CVE 355	Structural Analysis Lab	1	
CVE 374	Environmental Engineering	3	
CVE 375	Environmental Engineering Lab	1	
CVE 381	Geotechnical Engineering	3	
CVE 382	Geotechnical Engineering Lab	1	
MCE 354	Fluid Mechanics	3	

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Junior Year 2nd Semester (17 Credits)

Course Code	Description	Cr	
CVE 370	Hydraulic Engineering	3	
CVE 371	Hydraulic Engineering Lab	1	
CVE 347	Highway Engineering	3	
CVE 348	Highway Engineering Lab	1	
STA 409	Statistical Methods in Research I	3	
	Professional Elective*	3	
	General Education Elective	3	

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Senior Year 1st Semester (15 Credits)

Course Code	Description	Cr	
CVE 465	Analysis & Design of Concrete	3	
CVE 466	Structural Concrete Lab	1	
CVE 497	Civil Engineering Design I	2	
	Professional Elective*	3	
	General Education Elective	3	
	General Education Elective	3	

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Senior Year 2nd Semester (15 Credits)

Course Code	Description	Cr	
CVE 483	Foundation Engineering	3	
CVE 498	Civil Engineering Design II	3	
	Professional Elective*	3	
	General Education Elective	3	
	Free Elective**	3	

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

** Recommend a CVE professional elective to satisfy this requirement