

## Civil Engineering - Curriculum

Please click on the following link to download civil engineering curriculum.

CE Curriculum

CE Curriculum Flowchart/Prerequisites

Total number of credit hours required for graduation = 129

All students, except teacher education majors, must complete a six-semester-hour sequence either in literature or in history.

### Freshman Year

First Semester		Hours	Second Semester		Hours
ORI 101	Survival Skills	1	ENG 102	<sup>2</sup> Composition-II	3
ENG 101	Composition-I	3	MTH 126	Calculus-II	4
CHE 101	General Chemistry-I	3	EGC 104	Computer Programming	3
CHE 101L	General Chemistry-I Lab	1	CHE 102	General Chemistry-II	3
	<sup>1</sup> Health Sc/PE/MSC Elective	2	CHE 102L	General Chemistry-II Lab	1
EGC 101	Eng Drawing and Graphics	3	PHY 105	Physics-I	4
CE 101	Introduction to Civil Eng	1			
MTH 125	Calculus-I	4			
Total		18	Total		18

<sup>1</sup>ENG 103 and 104 may be taken by international students

<sup>2</sup> FAS 101, HED 101, NHM 103, OR PE 1xx

### Sophomore Year

First Semester		Hours	Second Semester		Hours
	<sup>3</sup> History Sequence Elective	3		<sup>3</sup> History Sequence Elective	3
MTH 227	Calculus-III	4	MTH 238	Applied Differential Equation	3
PHY	Physics-II	4	EE 201	Linear Circuit Analysis-I	3

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EGC 205	Statics	3	EE 201L	Linear Circuit Analysis-I Lab	1
CE 201	Surveying	3	EGC 206	Dynamics	3
			EGC 207	Strength of Materials	3
			EGC 207L	Strength of Materials Lab	1
Total		17	Total		17

<sup>3</sup>Any History Sequence: HIS 101/102, HIS 201/202

### Junior Year

First Semester		Hours	Second Semester		Hours
ENG 205	General Speech	3	CE 304	Environmental Eng	3
ECO 200	Basic Economics	3	CE 305	Hydrogeology	3
EGC 204	Engineering Analysis	3	CE 308	Soil Mechanics	3
EGC 305	Fluid Mechanics	3	CE 308L	Soil Mechanics Lab	1
EGC 305L	Fluid Mechanics Lab	1	CE 310	Transportation Systems	3
CE 306	Structural Analysis	3	CE 401	Structural Steel design	3
Total		16	Total		16

### Senior Year

First Semester		Hours	Second Semester		Hours
	<sup>4</sup> Humanities/Fine Arts Elective	3		<sup>4</sup> Humanities/Fine Arts Elective	3
CE 402	Reinforced Concrete Design	3	CE 404	Hydraulics Eng & Design	3
CE 408	Foundation Design	3	CE 470	Civil Eng Design Project	3
CE 410	Transportation Eng & Design	3		<sup>5</sup> CE Elective	3
CE 424	Civil Eng Practice	3			
Total		15	Total		12

Humanities/Fine Arts Elective may be chosen from literature, philosophy, foreign language, art, music, theatre, or dances. Available literature sequences are: ENG 201/202, ENG 203/204. Available Fine Art courses are: ART 101, MUS 101, ART 220, ART 221

<sup>5</sup>The CE Elective may be chosen from senior level CE courses or approved by the advisor.