

## Synopsis of the B.S. Curriculum in Civil Engineering

### Fourth (Freshman) Class

First Semester	Second Semester
CE 109 - CE Fundamentals I Credit Hours: 2	CE 110 - CE Fundamentals II Credit Hours: 2
CE 121 - Surveying Credit Hours: 3	CH 137 - Introductory College Chemistry I Credit Hours: 3
CE 121L - Survey Lab Credit Hours: 0	CH 117 - Laboratory for CH 137 Credit Hours: 1
ERH 101 - Writing and Rhetoric I Credit Hours: 3 *	ERH 102 - Writing and Rhetoric II Credit Hours: 3 *
HI 103 - World History I Credit Hours: 3	HI 104 - World History II Credit Hours: 3
MA 123 - Calculus & Analytic Geometry I Credit Hours: 3 *	MA 124 - Calculus & Analytic Geometry II Credit Hours: 3 *
HPW 102 - Boxing Credit Hours: 0.5 – OR – HPW 105 - Wellness Concepts Credit Hours: 0.5	HPW 102 - Boxing Credit Hours: 0.5 – OR – HPW 105 - Wellness Concepts Credit Hours: 0.5
ROTC Requirement - AS, MS, or NS Credit Hours: 1	ROTC Requirement - AS, MS, or NS Credit Hours: 1
<b>Total Semester Hrs: 15.5</b>	<b>Total Semester Hrs: 16.5</b>

### Third (Sophomore) Class

First Semester	Second Semester
CE 203 - Statics Credit Hours: 3 *	CE 206 - Solid Mechanics Credit Hours: 3 *
CE ELEC - Basic Science (GE 306 or BI 101) Credit Hours: 4	MA 220 - Probability & Statistics for Engineers & Scientists Credit Hours: 3
MA 215 - Calculus With Analytic Geometry III Credit Hours: 4	MA 311 - Elementary Differential Equations Credit Hours: 3
PY 160 - General Physics I Credit Hours: 3	LEAD 344 - Leadership in Organizations Credit Hours: 3
PY 155 - General Physics Laboratory I Credit Hours: 1	PY 161 - General Physics II Credit Hours: 3
ERH 103 - Fundamentals of Public Speaking Credit Hours: 1	PY 156 - General Physics Laboratory II Credit Hours: 1
HPW 201 - Basic Swimming and Survival Credit Hours: 0.5 – OR – HPW 205 - Principles of Physical Conditioning Credit Hours: 1	HPW 201 - Basic Swimming and Survival Credit Hours: 0.5 – OR – HPW 205 - Principles of Physical Conditioning Credit Hours: 1
ROTC Requirement - AS, MS, or NS Credit Hours: 1	ROTC Requirement - AS, MS, or NS Credit Hours: 1
<b>Total Semester Hrs: 17.5-18</b>	<b>Total Semester Hrs: 17.5-18</b>

## Synopsis of the B.S. Curriculum in Civil Engineering [cont'd]

### Second (Junior) Class

First Semester	Second Semester
CE 301 - Structural Theory Credit Hours: 3	CE 306L - Civil Engineering Laboratory II Credit Hours: 1
CE 305L - Civil Engineering Laboratory I Credit Hours: 1	CE 310 - Soil Mechanics Credit Hours: 3
CE 307 - Properties of Engineering Materials Credit Hours: 3	CE 322 - Water Resources Engineering Credit Hours: 3
CE 309 - Fluid Mechanics Credit Hours: 3	CE 327 - Reinforced Concrete Design Credit Hours: 3
CE 321W - Environmental Engineering Credit Hours: 3	CE 333 - Transportation Engineering Credit Hours: 3
CE ELEC - Engineering Science Elective I Credit Hours: 3 **	CE 350 - Civil Engineering Project Management Credit Hours: 3
HPW Requirement - Elective Credit Hours: 0.5	HPW Requirement - Elective Credit Hours: 0.5
ROTC Requirement - AS, MS, or NS Credit Hours: 2	ROTC Requirement - AS, MS, or NS Credit Hours: 2
<b>Total Semester Hrs: 18.5</b>	<b>Total Semester Hrs: 18.5</b>

### First (Senior) Class

First Semester	Second Semester
CE 451W - Civil Engineering Seminar Credit Hours: 1	CE 448 - Civil Engineering Design Capstone Credit Hours: 3
CE ELEC - Design Elective Credit Hours: 3	CE ELEC - Design Elective Credit Hours: 3
CE ELEC - Engineering Science Elective II Credit Hours: 3	CE ELEC - Technical Elective Credit Hours: 3
CE ELEC - Technical Elective Credit Hours: 3	CE ELEC - Technical Elective Credit Hours: 3
ELEC Humanities - Humanities Elective Credit Hours: 3	ELEC Humanities - Humanities Elective Credit Hours: 3
ELEC Free - Free Elective Credit Hours: 3	ROTC Requirement - AS, MS, or NS Credit Hours: 2
HPW Requirement - Elective Credit Hours: 0.5	
ROTC Requirement - AS, MS, or NS Credit Hours: 2	
<b>Total Semester Hrs: 18.5</b>	<b>Total Semester Hrs: 17</b>

**Total Hours: minimum 140**

\* Minimum Grade of C Required

\*\*Elective Options - CE 302, CE 330, CE 412, ME 311, EE 351