

# Bachelor of Science in Civil Engineering

## Civil Engineering (BSCE)

### Degree Program Guide

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Course	Title	Credit Hours
<b>Freshman</b>		
<b>First Semester</b>		
MATH 211	Calculus I	4
CHEM 121N	Foundations of Chemistry I Lecture	3
CHEM 122N	Foundations of Chemistry I Laboratory	1
ENGL 110C	English Composition (grade of C or better required)	3
ENGN 110	Explore Engineering and Technology	2
Gen Ed - Human Creativity Way of Knowing		3
<b>Credit Hours</b>		<b>16</b>
<b>Second Semester</b>		
MATH 212	Calculus II	4
CHEM 123N	Foundations of Chemistry II Lecture	3
PHYS 231N	University Physics I	4
CEE 111	Information Literacy and Research	2
COMM 101R	Public Speaking	3
<b>Credit Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>First Semester</b>		
CEE 204	Statics (grade of C or better required)	3
PHYS 232N	University Physics II	4
MATH 312	Calculus III (285)	4
Science Elective		
OEAS 111N or BIOL 110N	Physical Geology (and BIOL 111N) or Environmental Science for Non-Majors	4
CEE 240	Geographic Information Systems in Civil and Environmental Engineering	3
<b>Credit Hours</b>		<b>18</b>
<b>Second Semester</b>		
CEE 220	Mechanics of Deformable Bodies	3
CEE 205	Engineering Dynamics	3
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research (grade of C or better required) or Writing, Rhetoric, and Research: Special Topics	3
CEE 219	Surveying for Engineers	1

MATH 307	Ordinary Differential Equations (280)	3
Gen Ed - Literature Way of Knowing		3
<b>Credit Hours</b>		<b>16</b>
<b>Junior</b>		
<b>First Semester</b>		
CEE 320	Civil Engineering Materials	3
CEE 305	Civil and Environmental Computations	4
CEE 330	Hydromechanics (grade of C or better required)	3
CEE 350	Environmental Pollution and Control	3
CEE 304	Probability Statistics and Risk in Civil and Environmental Engineering	3
<b>Credit Hours</b>		<b>16</b>
<b>Second Semester</b>		
CEE 310	Structures I (grade of C or better required)	3
CEE 323	Soil Mechanics (grade of C or better required)	3
CEE 340	Hydraulics and Water Resources	3
CEE 370	Transportation Fundamentals	3
CEE 324	Soil Mechanics Laboratory	1
CEE 341	CE Hydraulics and Water Resources Laboratory	1
Gen Ed - Interpreting the Past Way of Knowing		3
<b>Credit Hours</b>		<b>17</b>
<b>Senior</b>		
<b>First Semester</b>		
CEE 410	Concrete Design	3
CEE 430	Foundation Engineering	3
CEE 401	Civil Engineering Design Project and Professional Practice I	3
CEE 402	Professional Practice of Engineering	1
Gen Ed - Upper Level Requirement 1		3
Gen Ed - Human Behavior Way of Knowing		3
<b>Credit Hours</b>		<b>16</b>
<b>Second Semester</b>		
CEE 403W	Civil Engineering Design Project and Professional Practice II (grade of C or better required)	3
CEE 4XX		3
CEE 4XX		3
ENMA 480	Ethics and Philosophy in Engineering Applications **	3
Gen Ed - Upper Level Requirement 2		3
<b>Credit Hours</b>		<b>15</b>
<b>Total Credit Hours</b>		<b>130</b>

\* Does not include the University's General Education language and culture requirement. Additional hours may be required.

\*\* Meets philosophy and ethics general education requirement.