

# BACHELOR OF SCIENCE IN CIVIL ENGINEERING

## *General Civil Emphasis*

For Fall 2003 and Subsequent Admissions

### FIRST YEAR

CE 191	Introduction to CE	2	CE 240	Surveying	3
ENGL 101	Composition I	3	ENGL 102	Composition & Literature	3
MATH 121	Calculus I	5	MATH 122	Calculus II	5
CHEM 184	Foundations of Chemistry I	5	CHEM 188	Foundations of Chemistry II	5
		15			16

### SECOND YEAR

PHSX 211	General Physics I	4	CE 301	Statics and Dynamics	5
MATH 220	Differential Equations	3	ECON 140/142/144	Economics	3
MATH 290	Elementary Linear Algebra	2	CE 390	CE Graphics/GIS	3
C&PE 121/EECS 138	Intro. to Computing	3	PHSX 212	General Physics 2	4
COMS 130	Speaker-Aud. Communication	3	Basic Science Elective <sup>1</sup>		3
Humanities/Social Science Elective <sup>1</sup>		3			18
		18			

### THIRD YEAR

CE 310	Strength of Materials	4	CE 461	Structural Analysis	4
CE 330	Fluid Mechanics	4	CE 487	Soil Mechanics	4
CE 477	Intro. to Env. Engineering & Sci.	3	CE 412/484	Materials	3
Engineering Science Elective <sup>1</sup>		3	CE 455	Hydrology	3
Humanities/Social Science Elective <sup>1</sup>		3	CE 357	Engineering Economics	2
		17			16

### FOURTH YEAR

CE 499	Senior Seminar	1	CE 563	Structural Design II	3
CE 562	Structural Design I	3	Civil Engineering Design Elective <sup>1</sup>		3
Civil Engineering Design Elective (Water) <sup>1</sup>		4	General Electives <sup>1</sup>		6
Civil Engineering Design Elective <sup>1</sup>		3	Humanities or Social Science Depth Elective <sup>1</sup>		3
CE 625	Applied Prob. & Statistics	3			15
Engineering Science Elective <sup>1</sup>		3			
		17			

**TOTAL HOURS REQUIRED FOR DEGREE<sup>2</sup> = 132**

Changes Approved Spring 2005

<sup>1</sup> See the list of recommended elective courses for further information.

<sup>2</sup> The Fundamentals of Engineering (F.E.) Exam is also a requirement of this degree program.