

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Environmental 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 | | 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 II | 4 |
| COMS 130 | Speaker-Aud. Communication | 3 | Basic Science Elective ¹ | | 3 |
| Humanities/Social Science Elective ¹ | | 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 ¹ | | 3 | CE 455 | Hydrology | 3 |
| Humanities/Social Science Elective ¹ | | 3 | CE 357 | Engineering Economics | 2 |
| | | 17 | | | 16 |

FOURTH YEAR

| | | | | | |
|---|-----------------------------|----|--|----------------------------|----|
| CE 499 | Senior Seminar | 1 | CE 574/755/757/791 | Envir. Design Elective | 3 |
| CE 562/563 | Structural Design I or II | 3 | CE 576 | Municipal Water/Wastewater | 4 |
| CE 552 | Water Res. Eng. Design | 4 | CE 440/541/580/582/588 | CE Design Elective | 3 |
| CE 570&571/573 | Envir. Principles Electives | 3 | General Elective ¹ | | 2 |
| CE 625 | Applied Prob. & Statistics | 3 | Humanities or Social Science Depth Elective ¹ | | 3 |
| Engineering Science Elective ¹ | | 3 | | | 15 |
| | | 17 | | | |

TOTAL HOURS REQUIRED FOR DEGREE² = 132

Changes Approved Spring 2005

¹ See the list of recommended elective courses for further information.

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