

Course of Study for Civil and Environmental Engineering
(For students entering Fall 2007)

| Freshman Year/Fall Semester | | Cr. | Freshman Year/Spring Semester | | Cr. |
|-----------------------------|------------------------------|-----------|-------------------------------|-------------------------------|-----------|
| __25.107 | Intro to Engineering I | 2 | __25.108 | Intro to Engineering II | 2 |
| __42.101 | (Gen. Ed.) College Writing I | 3 | __42.102 | (Gen. Ed.) College Writing II | 3 |
| __84.121 | Chemistry I | 3 | __84.122 | Chemistry II | 3 |
| __84.123 | Chemistry I Lab | 1 | __84.124 | Chemistry II Lab | 1 |
| __92.131 | Calculus I | 4 | __92.132 | Calculus II | 4 |
| __95.141 | Physics I | 3 | __ __. __ | (Gen. Ed.) AH* | <u>3</u> |
| __96.141 | Fund. of Exp. Physics I | <u>1</u> | | | 16 |
| | | 17 | | | |

| Sophomore Year/Fall Semester | | Cr. | Sophomore Year/Spring Semester | | Cr. |
|------------------------------|-----------------------------|-----------|--------------------------------|------------------------|-----------|
| __14.203 | Statics | 3 | __14.204 | Strength of Materials | 3 |
| __14.225 | Surveying | 3 | __14.205 | Dynamics | 3 |
| __14.286 | Prob. & Statistics for Eng. | 3 | __14.226 | Geomatics | 3 |
| __92.231 | Calculus III | 4 | __92.234/236 | Differential Equations | 3 |
| __ __. __ | (Gen. Ed.) SS | <u>3</u> | __ __. __ | (Gen. Ed.) AH* | <u>3</u> |
| | | 16 | | | 15 |

| Junior Year/Fall Semester | | Cr. | Junior Year/Spring Semester | | Cr. |
|---------------------------|-----------------------------------|-----------|-----------------------------|----------------------------|-----------|
| __14.301 | Fluid Mechanics | 3 | __14.330 | Soil Mechanics | 3 |
| __14.310 | Engineering Materials | 3 | __14.332 | Environmental Eng. Lab | 1 |
| __14.311 | Eng. Materials Lab | 1 | __14.333 | Geotechnical Lab | 1 |
| __14.340 | Transportation Engineering | 3 | __14.352 | Reinforced Concrete Design | 3 |
| __14.341 | Transportation Engineer. Lab | 1 | __14.362 | Environmental Engineering | <u>3</u> |
| __14.350 | Structural Analysis | 3 | __14.372 | Civil Engineering Systems | 3 |
| __49.201/202 | (Gen. Ed.) SS - Economics I or II | <u>3</u> | | | 14 |
| | | 17 | | | |

| Senior Year/Fall Semester | | Cr. | Senior Year/Spring Semester | | Cr. |
|---------------------------|-------------------------------|-----------|-----------------------------|------------------------------|-----------|
| __14.431 | Foundation & Soil Engineering | 3 | __14.470 | Engineering Economics | 3 |
| __14.452 | Steel Design | 3 | __14.485 | Capstone Design | 3 |
| __14.460 | Water Resource Engineering | 3 | __10.347 | Elem. Therm. & Heat Transfer | 3 |
| __16.213 | Fundamentals of Electricity | 3 | __ __. __ | Professional Elective | 3 |
| __ __. __ | Professional Elective | 3 | __ __. __ | (Gen. Ed.) SS | <u>3</u> |
| __ __. __ | (Gen. Ed.) AH* | <u>3</u> | | | 15 |
| | | 18 | | | |

Total minimum credits = 128

* Refer to the *Schedule of Classes* booklet for General Education requirements. General Education (Gen. Ed.) courses may be taken in any sequence. Students must select at least one course with significant diversity content and at least one course with significant ethics content.