

U.A. WHITAKER SCHOOL OF ENGINEERING
BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING (B.S.Env.E.)
128 Credits

Freshman Year

| Semester 1 | | | Semester 2 | | |
|---------------|----------------------------|-----------|---------------|--|-----------|
| Course Number | Course Title | CR | Course Number | Course Title | CR |
| EGN 1006L | Intro to Engineering Prof. | 1 | EGN 1041C | Problem Solving & Design Engrs | 2 |
| ENC 1101 | Composition I (W) | 3 | PHY 2048C | General Physics I | 4 |
| | Humanities* | 3 | MAC 2312 | Calculus II | 4 |
| MAC 2311 | Calculus I | 4 | ENC 1102 | Composition II (W) | 3 |
| BSC 1010C | General Biology w/lab I | 4 | HUM 2510 | Understanding Visual & Performing Arts | 3 |
| | Total | 15 | | Total | 16 |

Sophomore Year

| Semester 3 | | | Semester 4 | | |
|---------------|-------------------------------------|-----------|---------------|-------------------------------|-----------|
| Course Number | Course Title | CR | Course Number | Course Title | CR |
| EGM 3420C | Engineering Mechanics | 4 | EGN 33331C | Mechanics of Materials | 3 |
| MAC 2313 | Calculus III | 4 | EGN 2111C | Engineering Computer Graphics | 2 |
| CHM 1045C | Gen Chemistry w/Lab I | 4 | STA 2037 | Statistics with Calculus | 3 |
| PHY 2049C | General Physics II | 4 | MAP 2302 | Diff Equations | 3 |
| | Total | 16 | CHM 1046C | Gen Chemistry w/Lab II | 4 |
| | | | | Total | 15 |
| Summer term | | | | | |
| | Social Science (recommend ECO 2023) | 3 | | | |
| | Social Science* | 3 | | | |
| | Humanities* | 3 | | | |
| | Total | 9 | | | |

*One of these courses must be a writing course to satisfy the Gordon Rule (W).

NOTE: Students must earn at least 9 semester hours by attending one or more summer sessions at a State University System member institution.

Junior Year

| Semester 5 | | | Semester 6 | | |
|---------------|--|-----------|---------------|---|-----------|
| Course Number | Course Title | CR | Course Number | Course Title | CR |
| EGN 3833C | Engineering Service Learning | 2 | EGN 3641C | Engineering Entrepreneurship | 3 |
| EES 3204C | Environmental Chemistry for Engineers | 3 | CWR 3202C | Hydraulics | 3 |
| CWR 3201C | Engineering Fluid Mechanics | 3 | ENV 3006C | Fundamentals of Environmental Engineering | 3 |
| choose | ISC 2930 Environmental Geology (3) OR GLY 1000C Physical & Historical Geology (4) OR GLY 4074C Meteorology & Climatology (3) | 3 | CEG 3011C | Soil Mechanics | 3 |
| choose | MCB 3652C Environmental Microbiology (3) OR EVS 4814 Environmental Toxicology (3) | 3 | CGN 3323C | Surveying and Geomatics | 3 |
| | Total | 14 | | Total | 15 |

Senior Year

| Semester 7 | | | Semester 8 | | |
|---------------|--------------------------------|-----------|---------------|-------------------------------|-----------|
| Course Number | Course Title | CR | Course Number | Course Title | CR |
| EGN 4410L | Engineering Senior Design I | 1 | EGN 4411C | Engineering Senior Design II | 3 |
| ENV 4341C | Solid & Hazardous Waste Mgmt | 3 | ENV 4417C | Water & Wastewater Treatment | 3 |
| CCE 4031C | Project Planning & Regulations | 3 | ENV 4101C | Atmospheric Pollution | 3 |
| CWR 4540C | Water Resources Design | 3 | ENV 4612C | Sustainability in Engineering | 3 |
| CWR 4101C | Hydrology | 3 | IDS 3920 | University Colloquium (W) | 3 |
| | Total | 13 | | Total | 15 |

Total Hours = 128

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|---|
| Engineering common core - engineering courses |
| Engineering courses unique to B. S. in Environmental Engineering |
| Engineering courses shared by Civil and Environmental Engineering |