

ENVIRONMENTAL ENGINEERING PROGRAM  
Environmental Facilities Design and Construction (125 hours)

Effective for fall 2018 and subsequent classes.

The required courses are normally taught in fall or spring semesters as indicated below.

Each student is responsible for tracking future changes in this schedule.

**FIRST YEAR**

**FALL** **16 credits** **Sem. Grade**

|                         |              |  |  |
|-------------------------|--------------|--|--|
| General Chemistry*      | CHEM 103 (4) |  |  |
| Computer Science        | CISC 106 (3) |  |  |
| Intro. to Engineering   | EGGG 101 (2) |  |  |
| Analy. Geom. & Calc. A* | MATH 241 (4) |  |  |
| Breadth Requirement     | (3)          |  |  |

**FIRST YEAR**

**SPRING** **17 credits** **Sem. Grade**

|                         |              |  |  |
|-------------------------|--------------|--|--|
| General Chemistry*      | CHEM 104 (4) |  |  |
| Enviro. Eng. Processes* | CIEG 233 (3) |  |  |
| Seminar in Composition  | ENGL 110 (3) |  |  |
| Analy. Geom. & Calc. B* | MATH 242 (4) |  |  |
| Breadth Requirement     | (3)          |  |  |

**SOPHOMORE YEAR**

**FALL** **17 credits** **Sem. Grade**

|                         |              |  |  |
|-------------------------|--------------|--|--|
| Statics                 | CIEG 211 (3) |  |  |
| Enviro. Eng. Thermo.    | CIEG 333 (3) |  |  |
| Analy. Geom. & Calc. C* | MATH 243 (4) |  |  |
| General Physics I*      | PHYS 207 (4) |  |  |
| Breadth Requirement     | (3)          |  |  |

**SOPHOMORE YEAR**

**SPRING** **17 credits** **Sem. Grade**

|                              |              |  |  |
|------------------------------|--------------|--|--|
| Introductory Biology I       | BISC 207 (4) |  |  |
| Solid Mechanics              | CIEG 212 (3) |  |  |
| CE Materials Lab             | CIEG 213 (1) |  |  |
| Prob. & Stats. for Engineers | CIEG 315 (3) |  |  |
| Engineering Math I           | MATH 351 (3) |  |  |
| Breadth Requirement          | (3)          |  |  |

**JUNIOR YEAR**

**FALL** **17 credits** **Sem. Grade**

|                                |              |  |  |
|--------------------------------|--------------|--|--|
| Structural Analysis            | CIEG 301 (4) |  |  |
| Fluid Mechanics                | CIEG 305 (3) |  |  |
| Fluid Mechanics Lab            | CIEG 306 (1) |  |  |
| Water Resources Eng.           | CIEG 440 (3) |  |  |
| Air Pollution or Tech Elec (a) | (3)          |  |  |
| Tech. Writing/Breadth Req.     | ENGL 410 (3) |  |  |

**JUNIOR YEAR**

**SPRING** **16 credits** **Sem. Grade**

|                           |              |  |  |
|---------------------------|--------------|--|--|
| Structural Design         | CIEG 302 (4) |  |  |
| Water and WW Quality      | CIEG 437 (3) |  |  |
| Computer Elective (b)     | (3)          |  |  |
| Water and Wastewater Eng. | CIEG 438 (3) |  |  |
| Breadth Requirement       | (3)          |  |  |

**SENIOR YEAR**

**FALL** **12 credits** **Sem. Grade**

|                    |              |  |  |
|--------------------|--------------|--|--|
| Envio. Eng. Lab    | CIEG 337 (3) |  |  |
| Senior Design      | CIEG 461 (2) |  |  |
| Soil Mechanics     | CIEG 320 (3) |  |  |
| Soil Mechanics Lab | CIEG 323 (1) |  |  |
| PRM of Solid Waste | CIEG 436 (3) |  |  |

**SENIOR YEAR**

**SPRING** **13 credits** **Sem. Grade**

|                                |              |  |  |
|--------------------------------|--------------|--|--|
| Senior Design                  | CIEG 461 (2) |  |  |
| Air Pollution or Tech Elec (a) | (3)          |  |  |
| Technical Elective             | (3)          |  |  |
| General Elective               | (3)          |  |  |
| Technical Elective             | (2)          |  |  |

\*Grade of C- or higher for degree requirement or as pre-requisite for other courses.

All breadth requirements (18 credit hours) require a C- or better. The three University breadths must be taken from separate departments. See UD Academic Catalog for more information.

|  |             |              |                           |             |              |                              |             |              |
|--|-------------|--------------|---------------------------|-------------|--------------|------------------------------|-------------|--------------|
| Creative Arts & Humanities             | <b>Sem.</b> | <b>Grade</b> | History & Cultural Change | <b>Sem.</b> | <b>Grade</b> | Social & Behavioral Sciences | <b>Sem.</b> | <b>Grade</b> |
|  |             |              |                           |             |              |                              |             |              |
| Add'l Breadth Requirement (18 credits) |             |              |                           |             |              |                              |             |              |
| ENGL 410                               |             |              |                           |             |              |                              |             |              |

\_\_\_\_\_ two upper-level (300 and higher) courses

\_\_\_\_\_ Multicultural Requirement

- a) CIEG415 (spring) or CIEG434 (fall)—must take earth science course as technical elective if 434 is taken;  
b) APEC480, GEOG250, GEOG372, CIEG367 (CAD course), or PLSC150