

ENVIRONMENTAL ENGINEERING PROGRAM
Environmental Biological and Chemical Processes (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 **15 credits** **Sem. Grade**

Quantitative Analysis	CHEM 220 (3)		
Quantitative Analysis Lab	CHEM 221 (1)		
Statics	CIEG 211 (3)		
Analy. Geom. & Calc. C*	MATH 243 (4)		
General Physics I*	PHYS 207 (4)		

SOPHOMORE YEAR

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

Introductory Biology I	BISC 207 (4)		
Physical Chemistry II	CHEM 444 (3)		
Prob. & Stats. for Engineers	CIEG 315 (3)		
Engineering Math I	MATH 351 (3)		
Breadth Requirement	(3)		

JUNIOR YEAR

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

Chem. Eng. Thermo.*	CHEG 231 (3)		
Fluid Mechanics	CIEG 305 (3)		
Fluid Mechanics Lab	CIEG 306 (1)		
Breadth Requirement	(3)		
Water Resources Eng.	CIEG 440 (3)		
Air Pollution or Tech Elec.(a)	(3)		

JUNIOR YEAR

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

Intro. to Microbiology (b)	BISC 300 (4)		
Chem. Eng. Thermo.*	CHEG 325 (3)		
Technical Writing	ENGL 410 (3)		
Water and WW Quality	CIEG 437 (3)		
Water and Wastewater Eng.	CIEG 438 (3)		

SENIOR YEAR

FALL **15 credits** **Sem. Grade**

Chem. Eng. Kinetics	CHEG 332 (3)		
Organic Chemistry	CHEM 321 (3)		
Organic Chemistry Lab	CHEM 325 (1)		
Enviro. Engineering Lab.	CIEG 337 (3)		
Senior Design	CIEG 461 (2)		
Breadth Requirement	(3)		

SENIOR YEAR

SPRING **14 credits** **Sem. Grade**

Introductory Biochemistry	CHEM 527 (3)		
Senior Design	CIEG 461 (2)		
Air Pollution or Tech Elec.(a)	(3)		
Technical Elective (c)	(3)		
Breadth Requirement	(3)		

*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	Sem.	Grade	History & Cultural Change	Sem.	Grade	Social & Behavioral Sciences	Sem.	Grade
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) can take CIEG444 and additional hour of technical elective credit instead of BISC300
- c) Engineering Topic—must consult advisor

