



VANDERBILT School of Engineering

Environmental Engineering Curriculum (2025-2026 Catalog Year) 121 hours (minimum)

1. Mathematics (14 hours)

MATH 1300	Accelerated Single-Variable Calculus I (4 hours) F/S
MATH 1301	Accelerated Single-Variable Calculus II (4 hours) F/S
MATH 2300	Multivariable Calculus (3 hours) F/S
MATH 2420	Methods of Ordinary Differential Equations (3 hours) F/S

2. Basic Science (18 hours)

CHEM 1601+1601L	General Chemistry I and Laboratory (4 hours) F
CHEM 1602+1602L	General Chemistry and Laboratory (4 hours) S
PHYS 1601 + 1601L	General Physics I and Laboratory (4 hours) F/S
BSCI 1510	Molecules and Cells (3 hours) F
EES 1510	The Dynamic Earth: Introduction to Geological Science (3 hours) F/S

3. Computing (3 hours)

CS 1100 or 1101 or 1103	Introductory Programming (3 hours) F/S
-------------------------	--

4. Engineering Fundamentals (16 hours)

ES 1401-1403	Introduction to Engineering (3 hours) F
CE 2200	Statics (3 hours) F/S
CE 3700+3700L	Fluid Mechanics and Laboratory (4 hours) F
ME 2190	Dynamics (3 hours) F/S
CHBE 2200 or ME 2220	Chemical Engineering Thermodynamics (3 hours) S Thermodynamics (3 hours) F/S

5. Environmental Engineering Core (25 hours)

CE 2120	Sustainable Design in Civil Engineering (3 hours) F
CE 3300	Risk, Reliability, and Resilience Engineering (3 hour) S
CE 3705	Water Resources Engineering (3 hours) S
ENGM 3700	Program and Project Management (3 hours) F/S
ENVE 3200+3200L	Environmental Engineering Analysis and Laboratory F
ENVE 3600	Fundamentals in Environmental Engineering F
ENVE 4605	Environmental Thermodynamics, Kinetics, and Mass Transfer S
ENVE 4950	Environmental Engineering Design I F
ENVE 4951	Environmental Engineering Design II S
ENVE 4959	Senior Engineering Design Seminar F

6. Environmental Engineering Program Electives (6 hours)

7. Environmental Engineering Design Electives (6 hours)

8. Liberal Arts Core (18 hours)

9. Global Perspective Electives (6 hours)

10. Data Science Electives (6 hours)

11. Technical Electives (3 hours)

12. Open Electives (6 hours)

Note: [The VU Undergraduate Catalog](#) is the definitive source for all degree requirements. If there are differences between this document and the catalog, then the catalog will prevail.



VANDERBILT

School of Engineering

Environmental Engineering Prerequisites and Corequisites (2025-2026 Catalog Year)

1. Mathematics (14 hours)

MATH 1300	None.
MATH 1301	MATH 1300 or MATH 1201
MATH 2300	MATH 1301 or MATH 2200
MATH 2420	MATH 2300 or MATH 2310 or MATH 2501

2. Basic Science (18 hours)

CHEM 1601+1601L	None.
CHEM 1602+1602L	CHEM 1601, CHEM 1601L
PHYS 1601 + 1601L	Prerequisite or Corequisite: MATH 1200 or MATH 1300
BSCI 1510	Prerequisite or Corequisite: CHEM 1601
EES 1510	None.

3. Computing (3 hours)

CS 1100 or 1101 or 1103	None.
-------------------------	-------

4. Engineering Fundamentals (16 hours)

ES 1401-1403	None.
CE 2200	Corequisites: MATH 1301; PHYS 1601
CE 3700 + 3700L	ME 2190; MATH 2420
ME 2190	CE 2200; PHYS 1601; Corequisite: MATH 2300
CHBE 2200 or	Corequisite: MATH 2300
ME 2220	PHYS 1601; MATH 2300

5. Environmental Engineering Core (25 hours)

CE 2120	None.
CE 3300	MATH 2300
CE 3705	CE 3700 or CHBE 3300 or ME 3224
ENGM 3700	Junior Standing
ENVE 3200+3200L	Corequisite: ENVE 3600
ENVE 3600	CHEM 1601, PHYS 1601, MATH 2420
ENVE 4605	CHEM 1602, MATH 2420, ENVE 3600
ENVE 4950	ENVE 3600
ENVE 4951	ENVE 4950
ENVE 4959	Corequisite: ENVE 4950

6. Environmental Engineering Program Electives (6 hours)

Check individual course listings in the VU Undergraduate Catalog for requisites.

7. Environmental Engineering Design Electives (6 hours)

Check individual course listings in the VU Undergraduate Catalog for requisites.

8. Liberal Arts Core (18 hours)

9. Global Perspective Electives (6 hours)

Check individual course listings in the VU Undergraduate Catalog for requisites.

10. Data Science Electives (6 hours)

Check individual course listings in the VU Undergraduate Catalog for requisites.

11. Technical Electives (3 hours)

Check individual course listings in the VU Undergraduate Catalog for requisites.

12. Open Electives (6 hours)

Note: [The VU Undergraduate Catalog](#) is the definitive source for all degree requirements. If there are differences between this document and the catalog, then the catalog will prevail.