Wheaton College BS Engineering
Civil/Environmental Concentration 2025-2026

Prerequisite →
Pre or Corequisite ⇢
Credit Hours (xx)

Math & Science (30)
Engineering Core (30)
Engineering Concentration (15)
Core Curriculum (55)
Total: 130 hours

Entry	Precalculus				
Fall 1 (Sem. 1) (18)	MATH 235 (4) Calculus I	PHYS 231 (4) Introductory Physics I	ENGR 101 (1) Intro. to Engr.		- 1st yr. seminar (4) - Holistic Human Flourishing (1) - Writing (4)
Year 1					
Spring 1 (Sem. 2) (17)	MATH 236 (4) Calculus II	PHYS 232 (4) Introductory Physics II	ENGR 132 (3) Engr. Graphics & CAD		- Oral Comm. (2) - Old Test. Lit. (4)
Fall 2 (Sem. 3) (15)	MATH 237 (4) Calculus III	ENGR 211 (3) Engr. Mech. I - Statics w design lab (0)	ENGR 334 (2) Comp. Modeling of Physical Systems	ENGR 351 (2) Analog Electronics w design lab (0)	- Language I (4)
Year 2					
Spring 2 (Sem. 4) (16)	MATH 333 (4) Differential Equations		ENGR 212 (3) Engr. Mech. II - Dynamics w design lab (0)	ENGR 214 (3) Innovative Design in Engineering	- V&P Arts 1 (2) - Language II (4)
Fall 3 (Sem. 5) (17)	CHEM 231 (4) Gen. Chemistry I	ENGR 313 (3) Mechanics of Materials w design lab (0)	ENGR 336 (3) Fluid Mechanics	ENGR 352 (3) Fund. of Environmental Engineering	- Language III (4)
Year 3					
Spring 3 (Sem. 6) (16)		ENGR 302 (2) Eng. Systems Analysis	ENGR 354 (3) Water Resources Engineering	ENGR 356 (3) Structural Analysis and Design	- Thematic Core 1 (4) - New Test. Lit. (4)
				+ Sr. Standing	
Fall 4 (Sem. 7) (15)	Elective (2) Math & Science elective		ENGR XXX (3) Civil/Envr. Engineering Elective	ENGR 451 (4) Senior Design I	- Christian Thought (4) - V&P Arts 2 (2)
Year 4					
Spring 4 (Sem. 8) (16)		Apply for Fundamentals of Engineering (FE) Exam (0)	ENGR 494 (2) Engineering Ethics Capstone	ENGR 452 (2) Senior Design II	- CORE 3XX Adv. Int. Sem. (4) - Thematic Core 2 (4) - Thematic Core 3 (4)

Civil/Environmental Engineering Concentration Electives:
ENGR 358 Groundwater Hydrology and Well Hydraulics (2)
ENGR 359 Geotechnical Engineering (2)
ENGR 335 Materials Science for Engineering (3)
ENGR 338 Thermodynamics & Heat Transfer (3)
ENGR 495 Independent Study (1-3)

Updated August 2025