

Engineering (4-Year Program) Sugg Civil/Environmental Engineering Concentration

Total Major hours at Wheaton: 75 Suggested hours per semester: 16-18

Major Academic Plan (MAP) for Catalog Year 2024-2025

The catalog is the final authority on CATC and major requirements; this is intended as a tool for planning purposes.

Student course sequencing may vary depending on course offerings and other variables.

Fall Semester 1	Spring Semester 1	Summer 1
MATH 235: Calculus I ^{1*} PHYS 231: Introductory Physics I ^{F, 1*} ENGR 101: Intro. to Engineering (1) ^F CORE 101: First Year Seminar CORE 131: Holistic Human Flourishing (1) ENGW 103: Writing	MATH 236: Calculus II* PHYS 232: Introductory Physics II ^{S*} ENGR 132: Engineering Graphics and CAD (3) COMM 101: Oral Communication (2) BITH or ARCH 211 Old Testament	Consider study, internship or research options —Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research or other options that provide work experience, build your resume, or grow you personally.
Fall Semester 2	Spring Semester 2	Summer 2
MATH 237: Calculus III* ENGR 211: Statics ^{F*} (3) ENGR 334: Computer Modeling of Physical Systems (2) ^{F*} ENGR 351 Analog Electronics (2) ^{F*} Language Core Competency I	MATH 333: Differential Equations* ENGR 212: Dynamics ^{S*} (3) ENGR 214: Innovative Design in Engr. ^{S*} (3) Language Core Competency II Visual and Performing Arts (2)	Consider study, internship or research options
Fall Semester 3	Spring Semester 3	Summer 3
CHEM 231: General Chemistry I ^F ENGR 313 Mechanics of Materials ^{F*} (3) ENGR 336: Fluid Mechanics ^{F*} (3) ENGR 353: Fundamentals of Environmental Engineering F*(3) Language Core Competency III	ENGR 302: Engineering Systems and Analysis ^{5*} (2) ENGR 354: Water Resources Engineering (3) ENGR 356: Structural Analysis and Design (3) BITH or ARCH 213 New Testament Thematic Core Course ²	Consider study, internship or research options
Fall Semester 4	Spring Semester 4	Summer 4
Elective: Math & Science Elective ENGR 451: Senior Design I F ENGR 3/4XX: Engineering Elective (3)F*	ENGR 452: Senior Design II (2) ^{5*} ENGR 494: Engineering Ethics Capstone (2) ^{5*}	Consider study, internship or research options
Visual and Performing Arts (2) BITH 315: Christian Thought*	Advanced Integrative Seminar ² * Thematic Core Courses (8) ²	

Notes or Special Guidance for Majors:

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^{*}Course has prerequisite

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^F Fall only course

^S Spring only course

[#] Offered every other year

¹ Classes that meet CATC Thematic Core tags: MATH 231 (AAQR), PHYS 231 (SP), PSYC 101 (SI), ECON 211 (SI). General Engineering majors should use the General BA/BS checklist for CATC. A maximum of 3 tags can count for both CATC and the major.

² Double tagged courses are strongly encouraged for all CATC thematic courses.

⁻All Engineering MAPs are also located on the <u>Engineering Department webpage (link does not work)</u>. Please contact the Engineering Program Director, Jeff Yoder with questions. He can be reached at <u>jeff.yoder@wheaton.edu</u>.