

Engineering (4-Year Program)

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

Major Academic Plan (MAP) for Catalog Year 2023-2024

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 MATH 235: Calculus I ^{1*} PHYS 231: Introductory Physics I ^{F, 1*} ENGR 101: Intro. to Engineering (1) ^F CORE 101: First Year Seminar COMM 101: Oral Communication (2) or Visual and Performing Arts (2)	Spring Semester 1 MATH 236: Calculus II* PHYS 232: Introductory Physics II ^{5*} ENGR 131: Engineering Graphics and CAD ENGW 103: Writing	Summer 1 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 MATH 333: Differential Equations* PHYS 334: Computer Modeling of Physical Systems (2) ^{F*} ENGR 201: Statics ^{F*} ENGR 204: Innovative Design in Engr. ^{F*} Language Core Competency I	Spring Semester 2 MATH 237: Calculus III* ENGR 202: Dynamics ^{5*} Language Core Competency II BITH or ARCH 211 Old Testament	Summer 2 Consider study, internship or research options
Fall Semester 3 CHEM 231: General Chemistry I ^F ENGR 223: Strength of Materials ^{F*} ENGR 346: Fluid Mechanics ^{F*} Language Core Competency III	Spring Semester 3 ENGR 225: Material Science ^{5*} ENGR 302: Engineering Systems and Analysis ^{5*} (2) BITH or ARCH 213 New Testament Thematic Core Course ² COMM 101: Oral Communication (2) or Visual and Performing Arts (2)	Summer 3 Consider study, internship or research options
Fall Semester 4 ENGR 451: Senior Design I ^F ENGR 348: Thermodynamics & Heat Transfer ^{F*} ENGR 3/4XX: Engineering Elective (2-4) ^{F*} BITH 315: Christian Thought* COMM 101: Oral Communication (2) or Visual and Performing Arts (2)	Spring Semester 4 ENGR 452: Senior Design II (2) ^{F*} ENGR 494: Engineering Ethics Capstone (2) ^{5*} Advanced Integrative Seminar ^{2*} Thematic Core Courses (8) ²	Summer 4 Consider study, internship or research options

Notes or Special Guidance for Majors:

*Course has prerequisite

^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 [Engineering Department webpage](#). Please contact the Engineering Coordinator, Jeff Yoder with questions. He can be reached at jeff.yoder@wheaton.edu.