



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.

<p>Fall Semester 1</p> <p>MATH 235: Calculus I^{1*} PHYS 231: Introductory Physics I^{F, 1*} ENGR 101: Intro. to Engineering (1)^F</p> <p>CORE 101: First Year Seminar COMM 101: Oral Communication (2) or Visual and Performing Arts (2)</p>	<p>Spring Semester 1</p> <p>MATH 236: Calculus II* PHYS 232: Introductory Physics II^{5*} ENGR 131: Engineering Graphics and CAD</p> <p>ENGW 103: Writing</p>	<p>Summer 1</p> <p><i>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.</i></p>
<p>Fall Semester 2</p> <p>MATH 333: Differential Equations* PHYS 334: Computer Modeling of Physical Systems (2)^{F*} ENGR 201: Statics^{F*} ENGR 204: Innovative Design in Engr.^{F*}</p> <p>Language Core Competency I</p>	<p>Spring Semester 2</p> <p>MATH 237: Calculus III* ENGR 202: Dynamics^{5*}</p> <p>Language Core Competency II BITH or ARCH 211 Old Testament</p>	<p>Summer 2</p> <p><i>Consider study, internship or research options</i></p>
<p>Fall Semester 3</p> <p>CHEM 231: General Chemistry I^F ENGR 223: Strength of Materials^{F*} ENGR 346: Fluid Mechanics^{F*}</p> <p>Language Core Competency III</p>	<p>Spring Semester 3</p> <p>ENGR 225: Material Science^{5*} ENGR 302: Engineering Systems and Analysis^{5*} (2)</p> <p>BITH or ARCH 213 New Testament Thematic Core Course² COMM 101: Oral Communication (2) or Visual and Performing Arts (2)</p>	<p>Summer 3</p> <p><i>Consider study, internship or research options</i></p>
<p>Fall Semester 4</p> <p>ENGR 451: Senior Design I^F ENGR 348: Thermodynamics & Heat Transfer^{F*} ENGR 3/4XX: Engineering Elective (2-4)^{F*}</p> <p>BITH 315: Christian Thought* COMM 101: Oral Communication (2) or Visual and Performing Arts (2)</p>	<p>Spring Semester 4</p> <p>ENGR 452: Senior Design II (2)^{F*} ENGR 494: Engineering Ethics Capstone (2)^{5*}</p> <p>Advanced Integrative Seminar^{2*} Thematic Core Courses (8)²</p>	<p>Summer 4</p> <p><i>Consider study, internship or research options</i></p>

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.