



BS Engineering Mechanical Engineering Concentration

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

Major Academic Plan (MAP) for Catalog Year 2026-2027

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><i>CORE 101: First Year Seminar</i> <i>CORE 131: Holistic Human Flourishing (1)</i> <i>ENGW 103: Writing</i></p>	<p>Spring Semester 1</p> <p>MATH 236: Calculus II* PHYS 232: Introductory Physics II^{S*} ENGR 132: Engineering Graphics and CAD (3)</p> <p><i>COMM 101: Oral Communication (2)</i> <i>BITH or ARCH 211 Old Testament</i></p>	<p>Summer 1</p> <p><i>Consider study abroad, 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 237: Calculus III* ENGR 211: Statics^{F*} (3) ENGR 334: Computer Modeling of Physical Systems (2)^{F*} ENGR 351 Analog Electronics (2)^{F*}</p> <p><i>Language Core Competency I</i></p>	<p>Spring Semester 2</p> <p>MATH 333: Differential Equations* ENGR 212: Dynamics^{S*} (3) ENGR 214: Innovative Design in Engr.^{S*} (3)</p> <p><i>Language Core Competency II</i> <i>Visual and Performing Arts (2)</i></p>	<p>Summer 2</p> <p><i>Consider study abroad, internship, or research options</i></p>
<p>Fall Semester 3</p> <p>CHEM 231: General Chemistry I^F ENGR 313 Mechanics of Materials^{F*} (3) ENGR 336: Fluid Mechanics^{F*}(3) ENGR335: Material Science for Engineering ^{F*}(3)</p> <p><i>Language Core Competency III</i></p>	<p>Spring Semester 3</p> <p>ENGR 302: Engineering Systems and Analysis^{S*} (2) ENGR 337 Manufacturing Processes (3) ENGR 338: Thermodynamics & Heat Transfer^{F*} (3)</p> <p><i>BITH or ARCH 213 New Testament Thematic Core Course²</i></p>	<p>Summer 3</p> <p><i>Consider study abroad, internship, or research options</i></p>
<p>Fall Semester 4</p> <p>Elective: Math & Science Elective ENGR 451: Senior Design I ^F ENGR 3/4XX: Engineering Elective (3)^{F*}</p> <p><i>Visual and Performing Arts (2)</i> <i>BITH 315: Christian Thought*</i></p>	<p>Spring Semester 4</p> <p>ENGR 452: Senior Design II (2)^{S*} ENGR 494: Eng. Ethics Capstone (2)^{S*}</p> <p><i>Advanced Integrative Seminar^{2*}</i> <i>Thematic Core Courses (8)²</i></p>	<p>Summer 4</p> <p><i>Consider study abroad, internship, or research options</i></p>

Notes or Special Guidance for Majors:

*Course has a 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 Program Director, Jeff Yoder, with questions. He can be reached at jeff.yoder@wheaton.edu.