



WHEATON
COLLEGE
For Christ & His Kingdom

Mechanical Engineering with Illinois Tech

Total Major hours at Wheaton: 48
Suggested hours per semester: 16-18

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

Major hours at Wheaton = 48

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 CORE 131: Holistic Human Flourishing (1) Language Core Competency</p>	<p>Spring Semester 1²</p> <p>MATH 236: Calculus II* PHYS 232: Introductory Physics II^{S*}</p> <p>ENGR 103: Writing BITH or ARCH 211 Old Testament</p>	<p>Summer 1</p> <p>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.</p>
<p>Fall Semester 2</p> <p>MATH 237: Calculus III* ENGR 334: Computer Modeling of Physical Systems (2)^{F*} ENGR 211: Statics^{F*} (3)</p> <p>Thematic Core Courses³ COMM 101: Oral Communication (2)</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>Visual & Performing Arts (2)³ BITH or ARCH 213: New Testament</p>	<p>Summer 2</p> <p>Consider study abroad, internship, or research options.</p>
<p>Fall Semester 3</p> <p>ENGR 313 Mechanics of Materials^{F*} (3) CHEM 231: General Chemistry I^F ENGR 335: Material Science for Engineering * (3)</p> <p>Advanced Integrative Seminar^{3*}</p>	<p>Spring Semester 3</p> <p>ENGR 494: Ethics Capstone (2)^{S*}</p> <p>BITH 315: Christian Thought* Visual & Performing Arts (2)³ Thematic Core Courses (8)³</p>	<p>Summer 3</p> <p>Consider study abroad, internship, or research options.</p>

All courses below this line are based on completion at IIT

<p>Fall Semester 4</p> <p>MMAE 302: Advanced Mechanics of Solids (3) MMAE 313: Fluid Mechanics (3) MMAE 320: Thermodynamics (3) MMAE 350: Computational Mech.(3)</p>	<p>Spring Semester 4</p> <p>MMAE 319: Mechanical Lab 1 MMAE 323: Heat & Mass Transfer (3) MMAE 332: Design of Machine Ele. (3) SELECT: Technical Elective 1 (3)</p>	<p>Summer 4</p> <p>Consider study abroad, internship, or research options.</p>
<p>Fall Semester 5</p> <p>MMAE 419: Mechanical Laboratory 2 MMAE 443: Systems Analysis & Control (3) MMAE 485: Manufacturing Processes (3) SELECT: Technical Elective 2 IPRO: IPRO Elective 1 (3)</p>	<p>Spring Semester 5</p> <p>MMAE 432: Design of Machine Syst. (3) or MMAE 433: Design, Thermal Sci. (3) SELECT: Technical Elective 3 (3) SELECT: Technical Elective 4 (3) IPRO: IPRO Elective 2 (3) Fundamentals of Engineering Exam (0)</p>	<p>Summer 5</p>

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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). Engineering majors should use the [Engineering checklist](#) for CATC.

² ENGR 132: Engineering Graphics and CAD (3) is strongly recommended in this semester.

³ Engineering majors should carefully select CATC Thematic Core courses. In addition to the Themes already covered with required courses (AAQR and SP, see footnote 1), Social Inquiry (SI) and the Visual and Performing Arts (VPA or 2 of VPAV/VPAM/VPAT) must be taken. 4 of the 5 remaining themes must also be taken by Engineering majors. See the [Engineering checklist](#) for the full CATC requirements. Double-tagged courses are strongly encouraged.

⁴ These courses are taken in partnership with Illinois Tech while finishing Wheaton requirements.

-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.