



Computer Engineering with Illinois Tech

Major Academic Plan (MAP) for Catalog Year 2026-2027
Major hours at Wheaton = 43

Total Major hours at Wheaton:43
 Suggested hours per semester: 16-18

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>Language Core Competency</i></p>	<p>Spring Semester 1²</p> <p>MATH 236: Calculus II* PHYS 232: Introductory Physics II^{S*}</p> <p><i>ENGW 103: Writing</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 334: Computer Modeling of Physical Systems (2)^{F*} ENGR 211: Statics^{F*} (3) (**CE 100+)</p> <p><i>Visual & Performing Arts (2)³</i> <i>COMM 101: Oral Communication (2)</i> <i>BITH or ARCH 213: New Testament</i></p>	<p>Spring Semester 2</p> <p>MATH 333: Differential Equations* ENGR 204: Innovative Design in Engr.^{S*}(3) (**CE 200+)</p> <p><i>Visual & Performing Arts (2)³</i> <i>Thematic Core Course (8)³</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 CSCI 235: Programming I: Problem Solving PHYS 303: Modern Physics (**CE 300+)</p> <p><i>Advanced Integrative Seminar^{3*}</i></p>	<p>Spring Semester 3</p> <p>ENGR 494: Ethics Capstone (2)* IIT ECE 211: Circuit Analysis I (3)⁴ IIT ECE 218: Digital Systems⁴</p> <p><i>BITH 315: Christian Thought*</i> <i>Thematic Core Courses³</i></p>	<p>Summer 3</p> <p><i>Consider study abroad, internship, or research options.</i></p>

All courses below this line are based on completion at IIT

<p>Fall Semester 4</p> <p>CS 330: Discrete Structures (3) CS 331: Data Structures & Algorithms (3) ECE 213: Circuit Analysis 2 MATH 374: Probability & Statistics for Electrical & Computer Engineers (3)</p>	<p>Spring Semester 4</p> <p>ECE 242: Digital Computers & Computing (3) ECE 307 Electrodynamics or ECE 308 Signals and Systems (3) or ECE 319 Fundamentals of Power Engr. ECE 311: Engineering Electronics MATH 333 Matrix Algebra/Complex Variables or MATH 350 Intro Computational Mathematics IPRO: IPRO Elective 1 (3)</p>	<p>Summer 4</p> <p><i>Consider study abroad, internship, or research options.</i></p>
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Fall Semester 5	Spring Semester 5	Summer 5
CS 351: Systems Programming (3) ECE 441: Microcomputers ECE 485: Engineering Electronics (3) SELECT: Computer Sys/Software Elective (3 or 4) ECE 400+: Professional ECE elective 1 (3 or 4)	CS 450 Operating Systems (3) ECE 429 Introduction to VLSI Design or ECE 446 Advanced Logic Design (3 or 4) ECE 400+: Professional ECE elective 2 (3 or 4) IPRO: IPRO Elective 2 Exam: Fundamentals of Engineering (Passing is not required)	

Notes or Special Guidance for Majors:

*Course has a prerequisite

^F Fall only course

^S Spring only course

[#] Offered every other year

***Career Electives (CE): Advisor-approved course from engineering, science, math, computer science, business, and law at the indicated level.

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 130: Engineering Graphics and CAD, is strongly recommended 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.