

ACADEMY OF INFORMATION TECHNOLOGY

The Academy of Information Technology is a community of learners who actively participate in meaningful and challenging opportunities that fuel our passion for **Computer Science**. Academy of Information Technology students collaborate, think critically, and pursue knowledge that develops beyond high school readiness.

Academy Electives

Interested in learning more about computer science or earning your technology education credit? Check out one of our courses that are open to all Wheaton students:

Foundations of Computer Science <i>(Tech. Ed. Credit)</i>	AP Computer Science Principles <i>(Tech. Ed. Credit)</i>	Website Development	AP Computer Science A <i>(see course description)</i>
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AOIT Completer Checklist

All AOIT students begin with Computer Science Principles and then select at least three more courses from within the AOIT program to be a completer.

First course for all AOIT students: <input type="checkbox"/> AP Computer Science Principles	
Select three courses from one of the pathways below:	
Programming Pathway	Website Development Pathway
<input type="checkbox"/> Programming 1 <input type="checkbox"/> AP Computer Science A - Java <input type="checkbox"/> Capstone Course <ul style="list-style-type: none"> <input type="checkbox"/> Programming 3 <input type="checkbox"/> Guided Research <input type="checkbox"/> Internship <input type="checkbox"/> Montgomery College Course <input type="checkbox"/> Edison - Cybersecurity 	<input type="checkbox"/> Website Development <input type="checkbox"/> Advanced Website Tools <input type="checkbox"/> Capstone Course <ul style="list-style-type: none"> <input type="checkbox"/> Guided Research <input type="checkbox"/> Internship <input type="checkbox"/> Montgomery College Course <input type="checkbox"/> Edison - Cybersecurity <input type="checkbox"/> AP Computer Science A - Java

AOIT Course Descriptions:

Website Development

Students learn web design from storyboard to finished site by developing actual sites from customers specifications, using HTML, CSS, and Javascript. Skills in streaming media, audio, and simple animation are developed. Project management provides students with the skills to lead teams through projects from inception to completion.

AP Computer Science Principles

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Topics: How the Internet Works, Digital Information, Big Data, and Algorithms and Programming (apps).

AP Computer Science A - Java

Learn the basics of object-oriented programming (Java) with a focus on problem-solving and algorithm development.

Prerequisite: Experience with programming in any language or a commitment to practice over the summer. Prepare by joining codehs.com, class code: 9153B

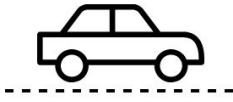
Programming I

This course introduces the basic principles of programming. The course will focus on simple and structured data types, control statements, functions, arrays, and classes. Emphasis is placed on developing effective problem-solving techniques through individual and team projects.

Capstone Course Options

After completing the first two courses in the pathway, students have the opportunity to select at least one Capstone Course option.

Students may have the opportunity to complete multiple Capstone courses!



Internship

Complete an IT related internship at a local business over the summer or after school.



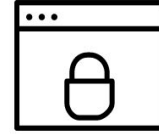
Montgomery College

Earn college credit while completing a Montgomery College computer science course.



Guided Research

Choose a topic to pursue in this student-driven computer science course.



Cybersecurity

Apply to complete the Cybersecurity Capstone at Edison High School of Technology.