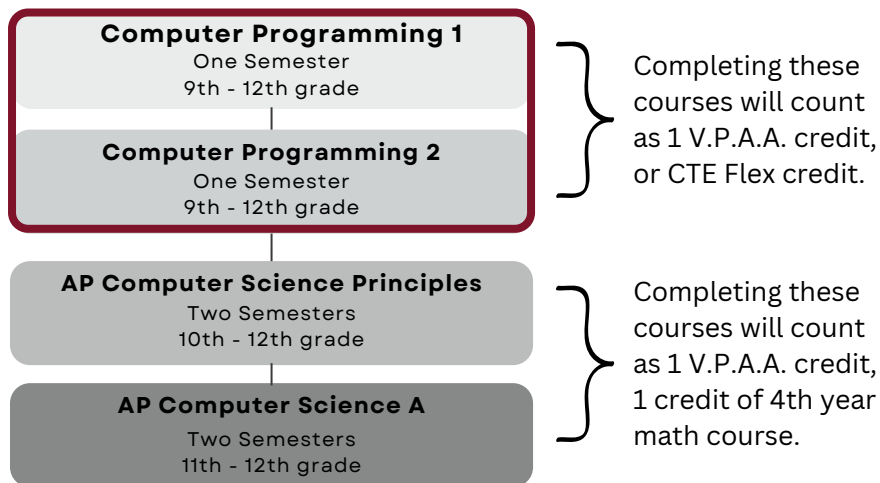



Computer Programming Program of Study

Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.



Grade	ELA	Math	Science	Social Studies	CTE - Computer Science
9	ELA 9	Algebra 1	Biology	World History	Computer Programming 1 and 2
10	ELA 10	Geometry or Honors Geometry	See course booklet for 10th grade science courses	US History	Computer Programming 1, Computer Programming 2, AP Computer Science Principles
11	ELA 11	Algebra 2 or Honors Algebra 2	See course booklet for 11th grade science courses	American Government/ Economics	Computer Programming 1, Computer Programming 2, AP Computer Science Principles and AP Computer Science A
12	ELA 12	Pre-Calculus or Honors Pre-Calculus or Math Related Course	See course booklet for 12th grade science courses	Economics (if needed)	
Aligned Post Secondary Courses	Oakland Community College: HTML5 Programming (CIS 1420), Introduction to Programming (Java) (CIS 1500) Mott Community College: Introduction to Programming (COMS-170), Network Essentials (COMN-120), A+ Operating System Technologies (COMC 125), A+ Core Hardware Components (COMC-115)				MDE Postsecondary Credit Agreement: 

Careers in Computer Science

Animator, Database Administrator, Data Systems Designer, E-Business Specialist, Game Developer, Information Technology, Engineer, Media Specialist, Network Administrator, Network Security Analyst, PC Support Specialist, Programmer, Software Applications Specialist, Systems Administrator, Telecommunications, Network Technician, User Support Specialist, Virtual Reality Specialist, Web Architect/Designer

Complete these courses to be considered a completer of the program.



CIP:
Computer Programming / Programmer 11.0201