

Department of Legislative Services
Maryland General Assembly
2025 Session

FISCAL AND POLICY NOTE
First Reader

House Bill 1264
Ways and Means

(Delegate Rose, *et al.*)

Public Schools - Mathematics Credit - College Preparatory Computer Science or
Computer Programming Course

This bill authorizes a student enrolled at a public high school to satisfy one credit of a requirement to earn mathematics credits for graduation by completing a credit in an Advanced Placement (AP) Computer Science course or, under specified conditions, an equivalently rigorous college preparatory computer science or computer programming course. In order for a computer science or computer programming course to qualify for mathematics credit under the bill, a student must enroll in the course concurrently with or after completing Algebra II. **The bill takes effect July 1, 2025.**

Fiscal Summary

State Effect: None. The bill generally codifies existing regulations.

Local Effect: None. The bill generally codifies existing regulations.

Small Business Effect: None.

Analysis

Current Law:

Computer Science Courses

Chapter 358 of 2018 requires, beginning in the 2021-2022 school year, each public high school to offer at least one high-quality computer science course that meets or exceeds the curriculum standards and requirements established by the State Board of Education (SBE). Local boards must also make efforts to (1) incorporate computer science in each

public elementary and middle school and (2) increase enrollment in middle and high school computer science courses from the following categories:

- female students;
- students with disabilities; and
- students of ethnic, racial, and other demographic groups that are underrepresented in the field of computer science as identified by the U.S. Equal Employment Opportunity Commission.

High School Diploma Requirements

With the advice of the State Superintendent of Schools, SBE must establish minimum requirements for issuing certificates and diplomas by public and private high schools. Local school systems may establish graduation requirements beyond the minimum requirements established by the board.

SBE must establish high school curriculum, college and career readiness standards, and graduation requirements for all public schools.

College and Career Readiness and College Completion Act

According to the College and Career Readiness and College Completion Act of 2013 (Chapter 533), each student must enroll in a mathematics course in each year that the student attends high school. The Maryland State Department of Education (MSDE) may adopt regulations that establish the mathematics and mathematics-related courses that fulfill the requirements that may include mathematics-related career and technology program courses. Further, it is the goal of the State that all students achieve mathematics competency in Algebra II.

Public High School Diploma Requirements

According to regulations, an AP Computer Science course may be counted toward one of three graduation requirements: (1) a mathematics credit; (2) a technology credit; or (3) a credit in a career and technical education (CTE) program. However, the AP Computer Science course may satisfy *only one* of these credit requirements. The regulations regarding mathematics credits and proposed regulations regarding high school graduation requirements are explained in further detail below.

According to regulations, to be awarded a high school diploma, a student entering ninth grade in a public high school on or after the 2021-2022 school year must earn a minimum of 22 credits in specified subjects. The regulations state that students must enroll in a mathematics course in each year of high school that the student attends, up to a

maximum of four years of attendance, unless in the fifth or sixth year a mathematics course is needed to meet a graduation requirement. In addition, to graduate from high school, a student must earn four credits of mathematics, including one with instruction in algebra aligned with the Maryland Comprehensive Assessment for algebra or one or more credits in subsequent mathematics courses for which Algebra I is a prerequisite, *and* one with instruction in geometry aligned with the content standards for geometry. Mathematics and mathematics-related courses must include a mathematics transition course, Algebra II, Pre-calculus, Discrete Mathematics, Linear Algebra, probability and statistics, AP Computer Science, AP Calculus (A/B), AP Calculus (B/C), or a computer science course that is not AP Computer Science if the local school system determines that the course meets the mathematics standards.

In addition, a student must meet the technology requirements. Under the regulation, to graduate from high school, a student must earn one computer science, engineering, or technology education credit that includes the study of computers and algorithmic processes or the application of knowledge, tools, and skills to solve practical problems and extend human capabilities. Further, successful completion of a State-approved CTE program, of which computer science could be a part, is a graduation option.

Higher Education Admissions Standards

Generally, according to [University System of Maryland \(USM\) policy](#), to be admitted to an USM institution, a student must earn a grade of a C or better in four credits of mathematics. The courses must include Algebra I, Geometry, and Algebra II. Students who complete Algebra II prior to their final year must complete the four-year mathematics requirement by taking a course or courses that utilize nontrivial algebra as defined by USM; examples of courses that use nontrivial algebra cited in USM's admissions policy do not include AP Computer Science. Generally, to be admitted to a computer science degree program, a student must earn a grade of C or better in college-level calculus.

Morgan State University requires four years of mathematics or State-approved equivalent including Algebra I or applied mathematics I, formal logic or Geometry, and Algebra II or applied mathematics II. St. Mary's College of Maryland requires a minimum of three credits of math. A fourth credit of math is recommended.

Private institutions of higher education and public institutions of higher education in other states set their own admissions requirements.

Additional Comments: MSDE advises that flexibility in course equivalency for computer science, programming, and mathematics is already established. Updates to the Maryland Secondary Math Framework and CTE standards, including the CTE Core-Flex model,

align math pathways with CTE programs. As a result, computer science courses can count toward math credit, meeting the intent of the bill.

Additional Information

Recent Prior Introductions: Similar legislation has been introduced within the last three years. See HB 1189 of 2024; HB 935 of 2023; and HB 1280 of 2022.

Designated Cross File: None.

Information Source(s): Maryland State Department of Education; Baltimore County Public Schools; Montgomery County Public Schools; Department of Legislative Services

Fiscal Note History: First Reader - March 3, 2025
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