

Third and Fourth Course Options for High School Mathematics



There are two distinct course sequence pathways of the high school standards for mathematics progression:

- The Integrated Pathway with a course sequence of Math I and Math II, each of which includes number theory, algebra, geometry, probability and statistics; and
- The Traditional Pathway with a course sequence of Algebra I and Geometry, with some data, probability and statistics included in each course.

Each pathway organizes identical standards into courses that provide a strong foundation for post-secondary success. As a result, mathematics standards identified in Math I through Math II are identical to the standards identified in Algebra I through Geometry. The content is simply grouped differently over the two years. Local Education Agencies (LEAs) must choose to implement either the Integrated or Traditional Pathway.

Third and Fourth Courses Required to be Offered options* available to students on either pathway:

- Algebra II/Math III
- Trigonometry/Pre-calculus/Math IV
- Applied Statistics
- Transition Mathematics for Seniors

Additional Third and Fourth Course options* available to students on either pathway:

- Advanced Mathematical Modeling
- AP® Calculus AB/BC
- AP® Computer Science A
- AP® Statistics
- Calculus
- Computer Science and Mathematics
- County-created and Approved Math Courses higher than Algebra II/Math III
- Data Science
- Dual Credit College Courses
- Financial Algebra/Mathematics
- IB® Program Mathematics Courses
- Introduction to Mathematical Applications
- Mathematics College Courses
- Quantitative Reasoning
- Statistics

**Students should consult with their chosen post-secondary educational/training institution when choosing course options and electives. School teams, including counselors, teachers, and administrators, should confer with the student and his/her parents/guardians to decide what third- and fourth-year mathematics courses best meet the needs of the student.*