

2016-2017 Registration Information

High School Mathematics

What are the graduation requirements for math?

For 9th graders entering in 2012-13 and beyond:

- For the Future Ready Core, students are required to earn four math credits – Math I, Math II, Math III, and a 4th math course beyond Math III to be aligned with the student's post-high school plans.
- In the instance that a principal grants an exception to a student from the Future Ready Core math sequence, the student will be required to successfully complete Math I and Math II, plus two other application-based math courses or selected pairs of CTE courses.
- Students take an NC End-of-Course assessment at the conclusion of the Math I course.

What standards are taught in high school mathematics courses?

- The North Carolina Standards for mathematics are the Common Core State Standards for Mathematics. All courses up to and including Math III teach these standards.
- Other math courses may use a combination of the Common Core State Standards for Mathematics, the 2003 NC Standard Course of Study, and other standards that are specific to the desired outcomes of the course.

Where do AP and IB courses fit into this sequence?

- There are three AP math courses: AP Calculus AB, AP Calculus BC, and AP Statistics.
- The AP Calculus courses are taken after Precalculus, so students taking AP Calculus have already fulfilled the math graduation requirements. These two courses are typically both taken in the same year on the 4x4 block schedule.
- AP Statistics can be taken after Math III and may be taken in conjunction with other math courses. AP Statistics can count as the 4th math credit required for graduation.
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- The International Baccalaureate math and computer science courses IB Mathematical Studies SL, IB Mathematics SL, IB Mathematics HL, IB Further Math HL, IB Computer Science SL, and IB Computer Science HL can count as the required 4th math credit beyond Math III.
- There is also an AP Computer Science course that counts as an elective.

Typical High School Math Course Sequences

The gray-shaded box indicates the last course the student must complete to satisfy graduation requirements. Courses in **BOLD** indicate a math credit. Courses not in bold indicate elective credit.

Typical Sequences for Academic Students under the Future Ready Core							
	Year 1		Year 2		Year 3		Year 4
A	Foundations of Math I (Math IA) (20502X0)	Math IB (21032X0B)	Foundations of Math II (20512X0)	Math II (22012X0)	Foundations of Math III (20522X0)	Math III (23012X0)	Advanced Functions & Modeling (24002X0) or Essentials for College Math (24082X0)
B	Math I (21032X0)		Math II (22012X0)		Math III (23012X0)		Advanced Functions & Modeling (24002X0) or Discrete Mathematics (24012X0)

Typical Sequences for Honors Students under the Future Ready Core							
	Year 1		Year 2		Year 3		Year 4
C	Math I (21032X0)		Math II (Honors) (22015X0)		Math III (Honors) (23015X0)		Precalculus (Honors) (24035X0)
D	Math Plus Honors (28005X0L)	Math II (Honors) (22015X0)	Math III (Honors) (23015X0)		Advanced Functions & Modeling (24002X0)		AP Statistics (2A037X0)
E	Math Plus Honors (28005X0L)	Math II (Honors) (22015X0)	Math III (Honors) (23015X0)		Precalculus (Honors) (24035X0)		AP Calculus AB/BC and/or AP Statistics*
F	Math II (Honors) (22015X0)		Math III (Honors) (23015X0)		Precalculus (Honors) (24035X0)		AP Calculus AB/BC and/or AP Statistics*
G	Math III (Honors) (23015X0)		Precalculus (Honors) (24035X0)		AP Calculus AB (25017X0)	AP Calculus BC (25027X0)	Math Analysis (28005X0) and/or AP Statistics*

*AP Statistics may also be taken in the same year as Precalculus.

Typical Sequences for Students Using the Math Substitution Option							
	Year 1		Year 2		Year 3		Year 4
H	Fundamental Math I** (28002X0B)	Introductory Mathematics (20202X0)	Foundations of Math I (Math IA) (20502X0)	Math IB (21032X0B)	Foundations of Math II (20512X0)	Math II (22012X0)	Foundations of Math III* (20522X0)
I	Introductory Mathematics** (20202X0)	Foundations of Math I (Math IA) (20502X0)	Math IB (21032X0B)	Foundations of Math II (20512X0)	Math II (22012X0)		Foundations of Math III* (20522X0)
J	Foundations of Math I** (Math IA) (20502X0)	Math IB (21032X0B)	Foundations of Math II (20512X0)	Math II (22012X0)	Foundations of Math III* (20522X0)		Math III* (23012X0)

*Students are encouraged to continue taking math courses through their senior year, but these courses are not required for graduation.

** Math courses are recommended as substitute courses for Math III and a 4th math course beyond Math III; however, certain pairs of CTE courses may also be used to substitute for the two additional math credits. See your counselor for additional information.