

High School Mathematics Sequence for Students Entering 9th Grade in 2009-10 or Later

Read sequences from left to right. Though other sequences are possible, most students will select one of the options below as they develop their 4-Year Graduation Plans. *It is recommended that students take at least one math course per year.* Some students, depending upon their performance and/or interest, may elect to take additional courses. Students should discuss their Plans with their teachers, counselors, and parents. **Not all sequences are offered at all Wake County High Schools. Please see your school's math department chair or Dean of Students for your school's specific information.**

 Final course that must be completed to meet Future Ready Core math requirements for graduation.

| | Course 1 | Course 2 | Course 3 | Course 4 | Course 5 | Course 6 | Course 7 | Course 8 |
|-------------------|-------------------------------------|-----------------------------|------------------------------------|------------------------------------|--|--|--------------------------------|--------------------------------|
| Sequence A | Introductory Mathematics (elective) | Algebra I Part 1 (elective) | Algebra I Part 2 | Foundations of Geometry (elective) | Geometry | Foundations of Advanced Algebra (elective) | Algebra II | Advanced Functions & Modeling* |
| Sequence B | Algebra I Part 1 (elective) | Algebra I Part 2 | Foundations of Geometry (elective) | Geometry | Foundations of Advanced Algebra (elective) | Algebra II | Advanced Functions & Modeling* | |
| Sequence C | Algebra I | Geometry | Algebra II | Advanced Functions & Modeling* | Analytic Geometry & Trigonometry | Introduction to College Math | | |
| Sequence D | Algebra I Plus* (elective) | Honors Geometry | Honors Algebra II | Precalculus | AP Statistics | | | |
| Sequence E | Algebra I Plus* (elective) | Honors Geometry | Honors Algebra II | Precalculus | AP Calculus AB | AP Calculus BC | | |
| Sequence F | Honors Geometry | Honors Algebra II | Precalculus** | AP Statistics | AP Calculus AB | AP Calculus BC | | |
| Sequence G | Honors Algebra II | Precalculus*** | AP Statistics | AP Calculus AB | AP Calculus BC | Math Analysis | | |

*or Discrete Math. AFM reinforces the content from Algebra II.

**Assuming that the student received credit for Algebra I in Middle School. Algebra I Plus is intended only for students who have already passed Algebra I who wish to stay in an honors sequence.

***Assuming that the student received credit for Algebra I and Geometry in Middle School.



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- **In order to satisfy the University of North Carolina System’s requirements, students must complete at least one of the following courses: Discrete Math, Advanced Functions and Modeling, Pre-Calculus, AP Statistics, AP Calculus AB, AP Calculus BC.**
- ***Advanced Functions and Modeling*** is not an honors level course.
- A student cannot receive math graduation credit for both ***Algebra I*** and ***Algebra I Plus***. Since the content of Algebra I Plus incorporates portions of Geometry content, Algebra I Plus may be taken after Algebra I for elective credit if the student feels a need to strengthen his/her math skills before continuing on to Honors Geometry. For all other math courses, students can not repeat a math course for credit.

Substitution to the recommended Future Ready Core Mathematics Requirements:

In the instance a principal grants an exception to a student from the Future-Ready Core mathematics sequence, the student will be required to pass [Algebra I and Geometry] PLUS [2 application-based math courses]. Below are listed some sequences for these students. Though other sequences are possible, most students who substitute the Future Ready Core math requirements will select one of the options below as they develop their 4-Year Graduation Plans. *It is recommended that students take at least one math course per year.* Some students, depending upon their performance and/or interest, may elect to take additional courses. Students should discuss their Plans with their teachers, counselors, and parents. **Not all sequences are offered at all Wake County High Schools. Please see your school’s math department chair or Dean of Students for your school’s specific information.**



Final course that must be completed to meet math requirements for graduation.

| | Course 1 | Course 2 | Course 3 | Course 4 | Course 5 | Course 6 |
|-------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|--|---|
| Sequence H | Foundations of Algebra | Introductory Mathematics | Algebra I Part 1 (elective) | Algebra I Part 2 | Foundations of Geometry (elective) | Geometry |
| Sequence I | Introductory Mathematics | Algebra I Part 1 (elective) | Algebra I Part 2 | Foundations of Geometry | Geometry | Foundations of Advanced Algebra |
| Sequence J | Introductory Mathematics | Algebra I Part 1 (elective) | Algebra I Part 2 | Foundations of Geometry | Geometry | Applied Math I: Practical Applications |
| Sequence K | Algebra I Part 1 (elective) | Algebra I Part 2 | Foundations of Geometry | Geometry | Foundations of Advanced Algebra | Algebra II |
| Sequence L | Algebra I Part 1 (elective) | Algebra I Part 2 | Foundations of Geometry | Geometry | Applied Math I: Practical Applications | Applied Math II: Financial Applications |