



## High School Mathematics Sequence for Students Entering 9<sup>th</sup> Grade in 2009-10

**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
<b>Sequence A</b>	Introductory Mathematics (elective)	Algebra I Part 1 (elective)	Algebra I Part 2	Geometry OR Algebra II	Algebra II OR Geometry	Discrete Math
<b>Sequence B</b>	Algebra I Part 1 (elective)	Algebra I Part 2	Geometry OR Algebra II	Algebra II OR Geometry	Discrete Math	Advanced Functions & Modeling
<b>Sequence C</b>	Algebra I	Geometry OR Algebra II	Algebra II OR Geometry	Advanced Functions & Modeling	Analytic Geometry & Trigonometry	Introduction to College Math
<b>Sequence D</b>	Algebra I Plus* (elective)	Honors Geometry OR Honors Algebra II	Honors Algebra II OR Honors Geometry	Precalculus	AP Statistics	
<b>Sequence E</b>	Algebra I Plus* (elective)	Honors Geometry OR Honors Algebra II	Honors Algebra II OR Honors Geometry	Precalculus	AP Calculus AB	AP Calculus BC
<b>Sequence F</b>	Honors Geometry OR Honors Algebra II	Honors Algebra II OR Honors Geometry	Precalculus*	AP Statistics	AP Calculus AB	AP Calculus BC
<b>Sequence G</b>	Honors Algebra II	Precalculus**	AP Statistics	AP Calculus AB	AP Calculus BC	Math Analysis

\*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 the Geometry content, Algebra I Plus may be taken after Algebra I for elective credit if the student feels a need to strengthen his/her algebra skills. 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] OR [Algebra I and Algebra II] 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
<b>Sequence H</b>	Foundations of Algebra	Introduction to Mathematics	Algebra I Part 1 (elective)	Algebra I Part 2	Foundations of Geometry (elective)	Geometry
<b>Sequence I</b>	Introduction to Mathematics	Algebra I Part 1 (elective)	Algebra I Part 2	Foundations of Geometry	Geometry	Applied Math I: Practical Applications OR Applied Math II: Financial Applications
<b>Sequence J</b>	Algebra I Part 1 (elective)	Algebra I Part 2	Foundations of Geometry	Geometry	Applied Math I: Practical Applications	Applied Math II: Financial Applications
<b>Sequence K</b>	Algebra I Part 1 (elective)	Algebra I Part 2	Algebra II	Applied Math I: Practical Applications	Applied Math II: Financial Applications	Geometry