

## ENGLISH

The high school English course of study is based upon the national Common Core State Standards for English Language Arts adopted by the North Carolina State Board of Education in June, 2010. The Common Core Standards specify the English courses that all students should study in order to be college and career ready. To see a complete list of standards please go to [www.corestandards.org](http://www.corestandards.org). The descriptions that follow are not standards themselves but instead offer a portrait of students who meet the standards set out in this document. As students advance through the grades and master the standards in reading, writing, speaking, listening, and language, they are able to exhibit with increasing fullness and regularity these capacities of the literate individual.

- demonstrate independence and become self-directed learners
- build strong content knowledge (Read purposefully and listen attentively and share knowledge through writing and speaking)
- respond to the varying demands of audience, task, purpose and discipline
- comprehend as well as critique
- value evidence
- use technology and digital media strategically and capably
- come to understand other perspectives and cultures

The standards for English Language Arts for high school are divided into 4 broad categories: Reading (Text complexity and comprehension growth), Writing (reader response and research), Speaking and Listening (Flexible communication and elaboration), and Language (conventions, effective use and vocabulary)

### Course Sequencing for English

<b>Sequence 1 (Academic Level)</b>	English I	English II	English III	English IV	
<b>Sequence 2 (Academic Support)</b>	Introduction to HS Writing/ English I	English I	English II	English III	English IV
<b>Sequence 3 (Advanced Level)</b>	H English I	H English II*	H English III*	H English IV*	
<b>Sequence 5 (AP Level)</b>	H English I	H English II*	H English III*	AP English III Language and Composition*	AP English IV Literature and Composition** or H English IV*

\* REQUIRES SUMMER READING

\*\* REQUIRES SUMMER WORK

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## MATH

The high school mathematics course of study is based upon the national Common Core State Standards for Mathematics (CCSS-M) adopted by the North Carolina State Board of Education in June, 2010. The Common Core Standards specify the mathematics that all students should study in order to be college and career ready. To see a complete list of standards please go to [www.corestandards.org](http://www.corestandards.org). The standards are divided into two equally important parts: the Standards for Mathematical Practice and the Standards for Mathematical Content. The Practice Standards describe the characteristics and habits of mind that all mathematically proficient students exhibit. The Standards for Mathematical Practice are:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

The Practice Standards will be applied throughout each course and, together with the Content Standards, will ensure that students experience mathematics as a coherent, useful, and logical subject.

The Standards for Mathematical Content for high school are divided into six conceptual categories: Number and Quantity, Algebra, Functions, Modeling, Geometry, and Statistics and Probability.

### Sequencing for Math Courses at Athens

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
<b>A</b>	Foundations of Math I (Math IA) (20502X0)	<b>Math IB (21032X0B)</b>	Foundations of Math II (20512X0)	<b>Math II (22012X0)</b>	Foundations of Math III (20522X0)	<b>Math III (23012X0)</b>	<b>Advanced Functions &amp; Modeling (24002X0) or Essentials for College Math (24082X0)</b>

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<b>B</b>	<b>Math I (21032X0)</b>		<b>Math II (22012X0)</b>	<b>Math III (23012X0)</b>	<b>Advanced Functions &amp; Modeling (24002X0), or Essentials for College Math (24082X0)</b>
<b>C</b>	Special Topics in Mathematics (28002X0D)	<b>Math II (22012X0)</b>	<b>Math III (23012X0)</b>	<b>Advanced Functions &amp; Modeling (24002X0)</b>	<b>AP Statistics (25117X0)</b>

<b>Typical Sequences for Honors Students under the Future Ready Core</b>								
	<b>Year 1</b>		<b>Year 2</b>		<b>Year 3</b>		<b>Year 4</b>	
<b>D</b>	<b>Math I (21032X0)</b>		<b>Math II (Honors) (22015X0)</b>		<b>Math III (Honors) (23015X0)</b>		<b>Precalculus (Honors) (24035X0)</b>	
<b>E</b>	Special Topics in Mathematics (28002X0D)	<b>Math II (Honors) (22015X0)</b>	<b>Math III (Honors) (23015X0)</b>		<b>Precalculus (Honors) (24035X0)</b>		AP Calculus AB/BC and/or AP Statistics*	
<b>F</b>	<b>Math II (Honors) (22015X0)</b>		<b>Math III (Honors) (23015X0)</b>		<b>Precalculus (Honors) (24035X0)</b>		AP Calculus AB/BC and/or AP Statistics*	
<b>G</b>	<b>Math III (Honors) (23015X0)</b>		<b>Precalculus (Honors) (24035X0)</b>		AP Calculus AB (25017X0)	AP Calculus BC (25027X0)	Math Analysis (25005X0B) and/or AP Statistics*	

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

<b>Typical Sequences for Students Using the Math Substitution Option</b>								
	<b>Year 1</b>		<b>Year 2</b>		<b>Year 3</b>		<b>Year 4</b>	
<b>H</b>	<b>Foundations of Math I** (Math IA) (20502X0)</b>	<b>Math IB (21032X0B)</b>	<b>Foundations of Math II (20512X0)</b>	<b>Math II (22012X0)</b>	Foundations of Math III* (20522X0)		Common Core Math III* (23012X0)	
<b>I<sup>^</sup></b>	<b>Foundations of Math I** (Math IA) (20502X0)</b>	<b>Introductory Mathematics** (20202X0)***</b>	<b>Foundations of Math I** (Math IA) (20502X0)</b>	<b>Math IB (21032X0B)</b>	<b>Foundations of Math II (20512X0)</b>		<b>Math II (22012X0)</b>	

<sup>^</sup> All students will begin in Foundations of Math IA. If students do not pass, then they will take Intro Math second semester

\*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 4<sup>th</sup> 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.

\*\*\* At Athens all students will begin in Math IA (Foundations of Math). If necessary students can go back and take Introductory Math to satisfy Math substitution requirements

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## SCIENCE

### Science Course Sequences for Athens

<b>Sequence 1</b>	Earth Science	Biology	Physical Science	
<b>Sequence 2</b>	Earth Science	Biology	Physical Science or Chemistry	Elective if desired
<b>Sequence 3</b>	H Earth Science	Biology or Honors Biology	Chemistry or H Chemistry	Elective or AP Course
<b>Sequence 4*</b>	H Biology	H Chemistry	AP Environmental OR Honors Earth Science	Elective or AP course

\*Students in Sequence 4 can use AP Environmental to satisfy the Earth Science Credit for Graduation, so students will be required to take AP Environmental or H Earth Science

## WORLD LANGUAGES

### Course Sequencing for Second Languages

<u>Level I</u>	<u>Level II</u>	<u>Level III (H)</u>	<u>Level IV (H)</u>	<u>Level V (H)</u>	<u>Advanced Placement</u>
Spanish French Latin	Spanish French Latin	Spanish French Latin	Spanish French Latin	Spanish French Latin	Spanish Language French Language Latin Language

- Levels I and II should be scheduled back to back, preferably beginning in 10<sup>th</sup> grade year
- Generally, students should not begin a language study in the 9<sup>th</sup> grade
- Students who have passed the 8<sup>th</sup> grade Spanish EOC/Exit Exam should sign up for level 2.

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## SOCIAL STUDIES

### Course Sequencing for Social Studies

For students who enter high school as **freshmen in 2012-13**, North Carolina high school students are required to take World History, American History I: The Founding Principles, American History II, and Civics & Economics, either regular or honors, to meet the graduation requirement. This does not include any Social Studies electives.

<b>Sequence 1</b>	World History	American History I	American History II	Civics and Economics	
<b>Sequence 2</b>	H World History	H American History I	H American History II	H Civics and Economics	AP Psychology
<b>Sequence 3</b>	H World History	AP Human Geography	AP US History	H Civics and Economics	AP Government and Politics AP US History^

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# STEM Program at Athens Drive HS

Focus Area	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Humanities-English</b>	STEM English I (Academic or Honors)		STEM English II (Academic or Honors)	STEM English III (Academic or Honors) or AP English III	STEM English IV (Academic or Honors) or AP English IV
	STEM World History (Academic or Honors)		STEM American History I (Academic or Honors) OR AP Human Geography	STEM American History II(Academic or Honors) OR AP US History	STEM Civics and Economics(Academic or Honors)
<b>Technology/Engineering Sequence/ Focus Area</b>		<b>(Choose One)</b>	<b>(Choose One)</b>	<b>(Choose One)</b>	Advanced Research Class (for all areas except Health Sciences) ∞ Students should take a CTE Enhancement courses from one of the following: • Microsoft Excel and Access: Digital Media, Health Science EMT • Microsoft Word: Health Science EMT • Personal Finance: Digital Media, Information Technology, Computer Science • Technology, Engineering and Design: Digital Media, Information Technology, Computer Science ^ Graphic Design, Engineering Design and Architecture Design STEM Pathways will require <b>one</b> of the following at some point: Personal Finance, Microsoft Excel and Access or Technology Engineering and Design ^^ Engineering Pathway will require Microsoft Word, Microsoft Excel and Access, or Digital Media I at some point (Engineering Pathway is Pending approval)
	<b>Digital Media</b>	Intro CTE Course <sup>∞</sup>	Digital Media I	Advanced Digital Media	
	<b>Engineering OR Architecture Design<sup>^</sup></b>	Drafting I	Drafting II / Engineering OR Drafting II Architecture	Drafting III Engineering OR Drafting II/ Architecture	
	<b>Information Technology</b>	Intro CTE Course <sup>∞</sup>	Networking I OR Computer Engineering I	Networking II OR Computer Engineering 2 <sup>^^</sup>	
	<b>Visual Arts</b>	Art I	Art II	Art III	
	<b>Graphic Communications<sup>^</sup></b>	Intro to Graphic Communications	Digital File Preparation	Print Advertising and Design	
	<b>Engineering<sup>^^</sup></b> (pending approval)	Technology Engineer Design  (pending approval)	Technological Design  (pending approval)	Technology Advanced Studies  (pending approval)	
	<b>Health Sciences</b>	Health Team Relations	Health Science I	Health Science II	
	<b>Health Sciences EMT Focus</b>	Intro CTE Course <sup>∞</sup>	Public Safety I	EMT I and EMT II	
	<b>Computer Science</b>	Intro CTE Course <sup>∞</sup>	Computer Engineering I	Computer Engineering II	Intro to Computer Science and AP Computer Science
<b>Math Sequence Option One</b>	Common Core Math II OR Special Topics w/ Common Core Math II		Common Core Math III	Pre-Calculus or AFM or Essentials for College Math	AP Calculus AB and BC OR Advanced Math/Science Option: AP Comp Sci (2 credits), Math Analysis OR AP Statistics
<b>Math Sequence Option Two</b>	Foundations of Math IA and Common Core Math IB OR Common Core Math I (Sem)		Common Core Math II and Common Core Math III	Pre-Calculus or AFM or Essentials for College Math	AP Calculus AB and BC OR Advanced Math/Science Option: AP Comp Sci (2 credits), Math Analysis OR AP Statistics
<b>Science Sequence One*</b>	STEM Earth Science (Academic or Honors)		STEM Biology and STEM Chemistry (Academic or Honors)	H Physics + Elective OR AP Physics 1 + AP Physics 2	OR AP Biology OR AP Chemistry AND AP Environmental Science (Required)
<b>Science Sequence Option Two</b>	STEM Earth Science (Required) (Academic or Honors)		STEM Biology	Physical Science/ STEM Chemistry	H Physics STEM
<b>Health Science Sequence for Science</b>	Earth Science (Academic or Honors)		STEM Biology and STEM Chemistry	Anatomy and Physiology (Health Science)	Optional upper level Science courses; suggested: AP Biology or AP Chemistry
	Free Elective(s)		World Language I and II	Arts Course STEM Visual Arts Recommended	Free Elective
<b>Extension Opportunities</b>	Participation in STEM-related activities are required		Participation in STEM-related activities are required	Job Shadowing and Business and Industry Partnership Required for Culminating STEM Projects; a 135 hour internship is <b>required</b> the Health Science Academy	

\* There are several different Science Sequences for students based on their readiness, interest and preparation. STEM students will have the opportunity to work with our staff to determine the level of science classes he or she needs to fulfill the science requirements

# AP Environmental Science or H Earth Science will be required for graduation.