

2017-2018 Registration Information

High School Science



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Graduation Requirements

- Students are required to earn three credits mandated high school Science courses—**Earth/Environmental, Biology and a Physical Science (Physics, Chemistry or Physical Science).**
- Students take an End-of-Course assessment at the conclusion of the Biology course.
- Students take an NC Final Exam in Earth/Environmental Science, Chemistry, Physics and Physical Science.

Standards for HS Science

- The NC Essential Standards will be taught in all core science courses in conjunction with the Common Core Literacy Standards for Science/Technical Subjects.
- Science elective courses may use a combination of the Common Core Literacy standards for Science/Technical Subjects and other standards that may be specific to the desired outcomes of the course.

Changes in Course Offerings

30202X0A Introduction to the Principles of Biology: This course introduces students to the major guiding principles of Biology – structures & processes of organisms, ecosystems, heredity, and biological evolution. Content material will be presented with an emphasis on project-based learning, literacy, and the 4 C's (communication, critical thinking, creativity, and collaboration). Students will develop analytical skills through the interpretation of scientific data and the incorporation of other research to support their arguments. This course is designed to precede the standard Biology course.

Potential Science Sequences

1 st Year	2 nd Year	3 rd Year	4 th Year
Honors Biology	Honors Chemistry or Honors Physics	AP Environmental Science	AP Science (AP Chemistry, AP Biology or AP Physics) or Science Elective based on choice/interest
Honors Earth/Environmental Science	Honors Biology	Honors Chemistry or Honors Physics	AP Science or Science Elective based on choice/interest
Academic Earth/Environmental Science	Honors or Academic Biology	Honors/Academic Chemistry or Honors Physics	AP Science or Science Elective based on choice/interest
Academic Earth/Environmental Science	Academic Biology	Physical Science	Science Elective based on choice/interest

Making Student Recommendations for Highest Appropriate Rigor Rising 9th Graders

The High School Science Program is committed to providing the highest level of rigor for each student. **Schools will place students in appropriate course levels, based on any one or more data points below.**

Data Indicators for 9 th -grade Student Recommendations for Science All data points are in Quickr.			
Data Source	Threshold	Recommendation	Moving Ahead...
7 th and 8 th Grade ELA and Math Course Grades	A or B in any level	Honors Earth/Environmental Science or Honors Biology (based on student choice/interest)	For grades 10-12, any student making an A or B at any level consider strongly placing them in the next highest level.
	OR		
	7 th -Grade Language Arts and Math EOG	4.0-5.0	
3.0-3.9		Honors or Academic Environmental Science	
2.0 and below		Academic Earth/ Environmental Science	
AND/OR			
EVAAS Predicted Score for Biology EOC	Levels 3.5-5	Honors Earth/Environmental Science or Honors Biology (based on student choice/interest)	Reminder: EVAAS Predictions are functions of other data points, so this data should be used to confirm your recommendation, not to change a recommendation.
	Levels 3.0-3.5	Honors Earth/Environmental Science	
	Level 2.9 and below	Academic Earth/Environmental Science	