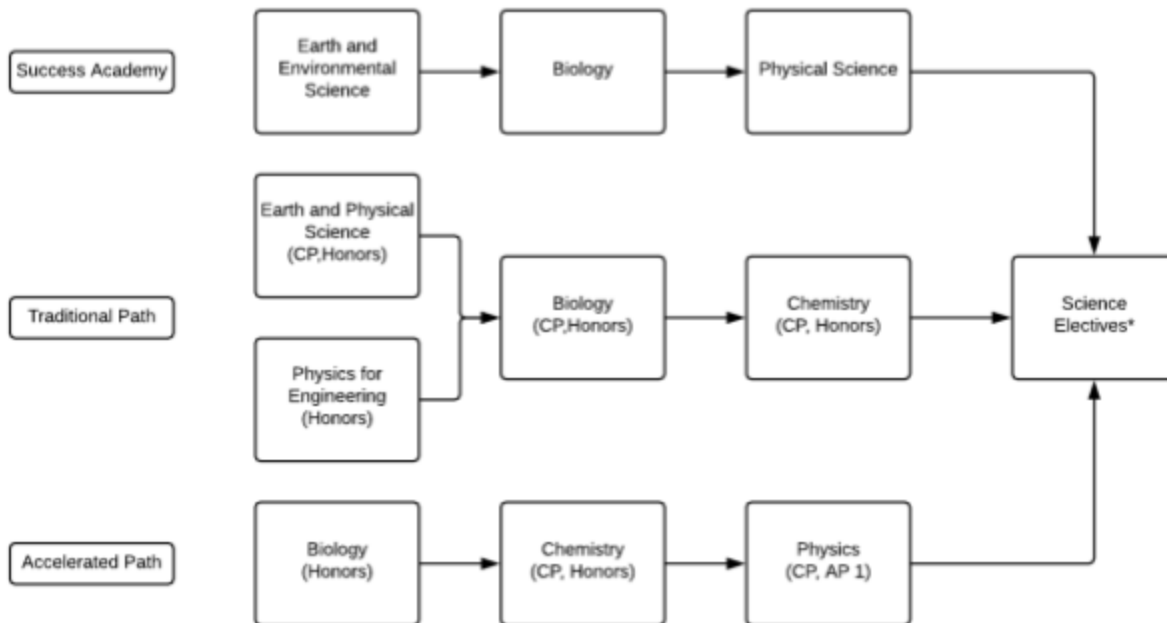


NKHS Science Department At A Glance

All Students at North Kingstown High School are required to pass three (3) credits of science in order to graduate. Science courses at NKHS are aligned to the Next Generation Science Standards (NGSS) which combine scientific theory with inquiry and problem solving skills, along with engineering practices. There are three paths that students can take to obtain these credits: **Success Academy**, **Traditional** and **Accelerated**.



* Students are allowed to take Science Electives prior to their senior year if they meet the prerequisites for the specific course.

Success Academy: This path is for incoming students who need modifications and/or supports, but are at grade level. Students will start in the 9th grade by taking Earth and Environmental Science, postponing the math based concepts of physical science that students would normally take in the 9th grade traditional path to their junior year when math concepts can be further developed. In between these two years students will take Biology to satisfy the life science component of the NGSS Standards.

Traditional Path: Incoming 9th graders are automatically entered into the traditional path unless they test out. There are two traditional paths that students can take, depending upon if they are enrolled in the Academy of Engineering and Robotics or not. Students who are not enrolled in the Academy of Engineering and Robotics will start their science education in Earth and Physical Science in 9th grade, followed by Biology in 10th grade, and Chemistry in the 11th grade. Students who are enrolled in the Academy of Engineering and Robotics will take Physics for Engineering in the 9th grade instead of Introduction to Earth and Physical Science. This course will satisfy the physics requirement for the program while providing the necessary background for future engineering courses. They will take Biology in the 10th grade and Chemistry in the 11th grade.

Accelerated Path: Students can place into the Accelerated Path by taking and scoring proficient on the Placement test, which is administered in the spring of their 8th grade year. If a student is proficient, they will be enrolled in Honors Biology in the 9th grade, followed by Honors Chemistry in the 10th grade, and AP Physics 1 in the 11th grade.

Science Electives at NKHS

There are many opportunities for students to take electives, both semester and year long, at North Kingstown High School. These courses can be taken in grades 9 - 12 as long as students meet the prerequisites set for each class. The electives offered are:

Semester Electives

- Physics (CP)
- Environmental Science (CP)
- Anatomy and Physiology (CP and Honors)

Year Long Electives

- Comparative Anatomy
- Floriculture
- Forensic Science
- Landscaping
- Narragansett Bay Studies
- Science and Controversy
- Pharmacology
- Science of Sports
- Robotics 1
- Robotics 2

AP Courses

The Science Department at NKHS offers the most AP Courses by department for students to choose from. Students who take AP Courses are challenged with rigorous concepts and also have laboratory experience in preparation for the AP Exam in May of each year. The Science related AP Courses offered at NKHS are:

- AP Environmental Science
- AP Biology
- AP Chemistry
- AP Physics 1
- AP Physics 2

Facilities

The Science Classrooms at NKHS are spread over all three floors of the school. On the first floor are 4 Biology Labs and access to the greenhouse. The second floor contains 2 Physics Labs, 2 Chemistry Labs, and a general purpose classroom. On the Third Floor there are 5 General Purpose Laboratories where most of the Introductory and Elective Classes meet.