

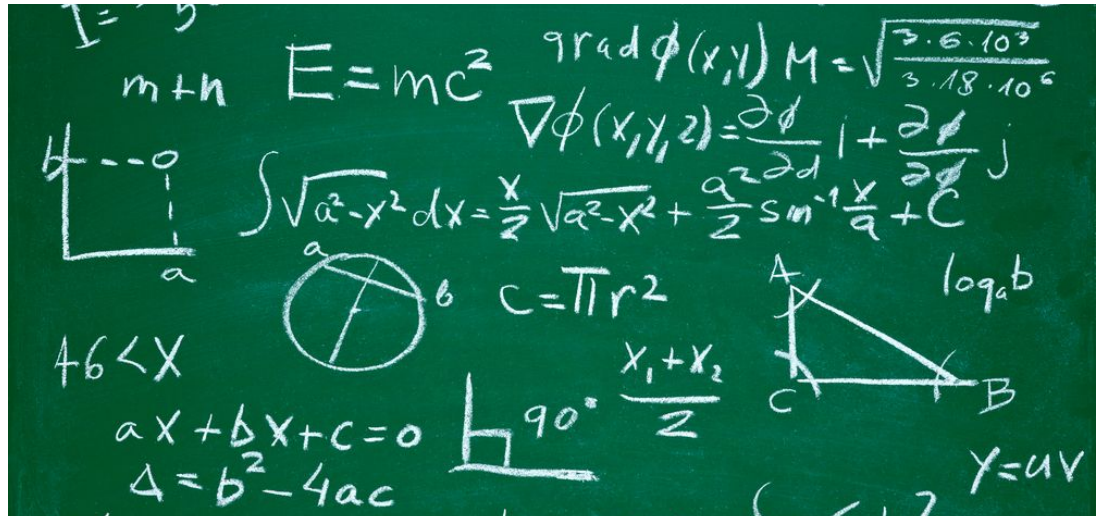
ADVANCED MATHEMATICS

Career
Pathway

Course Offerings/Credits

Minimum of 3 Courses

Honors Algebra 2	1
Honors Pre-Calculus	1
AP Calculus (AB)	1
AP Calculus (BC)	1
AP Statistics	1



Career Choices

- Actuarial Science
- Engineering
- Biomathematics
- Economist
- Stockbroker
- Cryptography
- Finance
- Meteorologist
- Computer Analyst or Programmer

Learning Opportunities

- Partnership with engineering firm
- NSHS Math Team
- WPI Math meet
- Robotics Team

Pathway Description

The Advanced math pathway is being offered for the student that enjoys working with calculations, mathematical concepts and statistics. There are many fields that rely on solid mathematical foundations.

A [study by PayScale](#) shows that the top 15 highest-earning college degrees have a common element: mathematics. Not only do many professions and majors (engineering, doctors, physics, nurses, computer science, actuarial science, etc.) require courses in mathematics, but the analytical and problem-solving skills students learn in mathematics can apply to all disciplines. The MAA is committed to providing information that helps students understand their options .

Learning mathematics is akin to learning a language. Just as we speak and write using symbols imbued with meaning, math majors become fluent in the language of numbers, distilling complex, real-world problems into mathematical equations, concepts, and principles that can then be, well, solved. The skills learned in an undergraduate mathematics program can run the gamut in terms of applicability in professional institutions. In short, *every* business needs someone who knows mathematics, whether or not mathematics are the directly related to the chief function of that business. Our world today runs just as much on the basis of numbers as words, and as such those who are proficient in speaking the language of numbers can find great opportunities for entry-level positions and successful careers beyond

Pathway Recommendations

Students interested in pursuing a pathway in this area should meet with their guidance counselor to select the best sequence of courses that will satisfy the North Smithfield High School graduation requirements and at the same time, meet the criteria to receive a seal of concentration in Advanced Mathematics.

Students will also develop an Math related focus which will culminate in field experience for the required senior project.