Those who choose careers in science and mathematics apply essential subject area content and skills to real world context. Science and mathematics occupations include those in physical, environmental and human endeavors. Career possibilities range from teachers of science and mathematics to lab technicians and NASA astronauts.

**Major Courses**

Students must take THREE pathway concentration courses and ONE additional pathway elective course. (This pathway does not fulfill Career Tech course requirements for the Tech/Career or Dual Seal.)

**Pathway Concentration Courses (3):**
- Algebra III or Advanced Algebra/Trigonometry
- AP Environmental Science
- AP or IB Physics
- Biology II (Honors) or AP or IB Biology
- Calculus or AP Calculus
- Chemistry II (Honors) or AP or IB Chemistry
- IB Environmental Systems
- Pre-Calculus (Honors)
- Statistics or AP Statistics

**Pathway Elective Course (1):**
- AP Calculus AB or BC
- Apprenticeship/Internship/Mentorship
- Discrete Mathematics
- Forensic Science
- Other Pathway Concentration Course

**Other Recommended Courses**
- Agriscience Principles & Technology
- Anthropology
- Civil Engineering Drawing
- Computer Science
- Engineering Concepts & Drawing
- Examining the Teaching Profession
- Modern Language
- Research & Design

**Post-Secondary Degrees, Diplomas, & Certificates**
- Anthropology
- Biochemistry
- Biology
- Cellular Biology
- Cognitive Science
- Ecology
- Environmental Science
- Geology
- Hydrogeology
- Marine Biology
- Mathematical Sciences
- Mathematics
- Microbiology
- Molecular Biology
- Physics & Astronomy
- Research, Measurement & Statistics
- Science

**Analytical chemist**
**Astronomer**
**Botanist**
**Nuclear Chemist**
**Crystallographer**
**Environmental scientist**
**Geneticist**
**Materials analyst**

**Anthropologist**
**Astrophysicist**
**CAD operator**
**Conservation scientist**
**Demographer**
**Marine scientist**
**Geologist**
**Numerical analyst**

**Applied mathematician**
**Atmospheric scientist**
**Communication technologist**
**Research chemist**
**Research technician**
**Expert systems scientist**
**Geophysicist**
**Protein scientist**

**Archeologist**
**Biologist**
**Cartographer**
**Cryptographer**
**Ecologist**
**Economist**
**Geoscientist**
**Cosmologist**

**Physicist**
**Programmer**
**Technologist**
**Dye chemist**
**Teacher**
**Statistician**
**Zoologist**
**Toxicologist**

**Employment Outlook**

Job opportunities are expected to be best for qualified graduates of science and mathematics training programs or applied science and mathematics programs who are trained on equipment used in industrial/government laboratories and production facilities. As the instrumentation and techniques used in industrial research, development and production become increasingly more complex, employers are seeking well-trained individuals with highly developed technical and communication skills.

* Pre-requisites noted in course descriptions.