Our Life Science Pathway builds a foundation in biology and chemistry with focus on the living world, how complex systems interact and evolve over time, and the molecular basis of life.

Our goal is to prepare you to be successful at a college with a strong life-sciences program.

Required Courses:
- AP Biology
- AP Chemistry

Encouraged Courses:
- AP Capstone (AP Seminar/ AP Research)  
  - To prepare you to do research in your field.
- AP Environmental Science
- AP Calculus AB
- AP Stats
- AP Psychology

Possible College Majors:
- Athletic Training
- Biochemistry
- Biology
- Biomedical/ Chemical/ Environmental Engineering
- Chemistry
- Ecology
- Environmental Science
- Forensic Science
- Molecular Biology
- Nursing (RN)
- Pharmaceutical Sciences
- Predentistry
- Premedicine
- Prenursing Studies
- Psychology
- Statistics
STEM: Engineering

Our Engineering Pathway focuses on building a foundation in physical sciences, computer science, and engineering through study of how things work at physical and chemical levels.

Our goal is to prepare students for the most challenging postsecondary engineering, physical science, and technology programs.

Required Courses:
- AP Physics
- AP Chemistry

Encouraged Courses:
- AP Capstone (AP Seminar/ AP Research)
  - To prepare you to do research in your field.
- AP Computer Science Principles
- AP Calculus AB
- AP Stats
- STEM: Engineering Design

Possible College Majors:
- Architecture
- Agricultural Engineering
- Atmospheric Sciences and Meteorology
- Biomedical Engineering
- Chemistry
- Chemical Engineering
- Computer Science
- Computer Software Engineering
- Construction Management
- Design and Visual Communications
- Electronics Technology
- Engineering and Industrial Management
- Forensic Chemistry
- Industrial Engineering
- Materials Science
- Mathematics
- Nuclear Engineering
- Pre Medicine
Fine Arts: Music

Our Music Pathway focuses on building a foundation in the musical arts. This pathway focuses on music performance and music theory.

Our goal is to prepare students for the most challenging postsecondary music conservatory programs.

Required Courses:
- 4 year participation in music ensembles (band, chorus, and/or orchestra)
- AP Music Theory

Encouraged Courses:
- Alternative Additional Music Courses
- Visual Arts
- AP History
- Foreign Language

Possible College Majors:
- American Studies
- Audio Engineering/Production
- Classics
- Computer Science
- Dance
- Electrical Engineering
- English
- Film Studies
- Mathematics
- Music Performance
- Music Education
- Music Composition
- Musical Theater
- Physics
- Studio Arts
- Theater Arts
- Voice and Opera
Our Digital Art Pathway focuses on building a foundation in the digital arts. This pathway focuses on digital photography and video production.

Our goal is to help build student portfolios, so they can attend and receive scholarships for highly selective art programs.

Required Courses:
- Digital Imaging I/II
- AP 2D Photography
- Multimedia Video Production I/II

Encouraged Courses:
- AP Psychology
- AP Computer Science Principles
- Creative Writing/ College Writing
- Film Studies

Possible Career Options:
- Actors
- Architects
- Art Directors
- Camera Operators and Film and Video Editors
- Computer Programmers
- Directors
- Exhibit Designers and Museum Technicians
- Fashion Designers
- Fine Artists
- Graphic Designers
- Interior Designers
- Multimedia Artists and Animators
- News Analysts, Reporters, and Correspondents
- Photographers
- Set Designers
- Software Developers
- Theater, Film, and TV Technicians
- Web Designers
Fine Arts: Visual Arts

Our Visual Arts Pathway focuses on building a foundation in the Visual Arts. This pathway focuses on traditional media, drawing, painting, and sculpture.

Our goal is to help build student portfolios, so they can attend and receive scholarships for highly selective art programs.

Required Courses:
- Art I
- Studio Drawing and Painting I
- Sculpture I
- AP Drawing
- AP 3D Sculpture

Encouraged Courses:
- Studio Drawing II
- Sculpture II

Possible Career Options:
- Actors
- Architects
- Art Directors
- Camera Operators and Film and Video Editors
- Computer Programmers
- Directors
- Exhibit Designers and Museum Technicians
- Fashion Designers
- Fine Artists
- Graphic Designers
- Interior Designers
- Multimedia Artists and Animators
- News Analysts, Reporters, and Correspondents
- Photographers
- Set Designers
- Software Developers
- Theater, Film, and TV Technicians
- Web Designers
STEM: Computer Science

Our Computer Science Pathway focuses on providing high quality Computer Science Education. It encourages student ownership of the learning process as a key to knowledge building.

Our goal is to help prepare students for rigorous and selective college computer science programs.

**Required Courses:**
- Fundamentals of IT
- AP Computer Science Principles
- AP Computer Science A
- Advanced Topics in Computer Science

**Encouraged Courses:**
- AP Capstone (AP Seminar/ AP Research)
  - To prepare you to do research in your field.
- AP Statistics
- AP Calculus AB
- AP Physics
- Digital Imaging I

**Possible College Majors**
- Applied Physics
- Atmospheric Sciences and Meteorology
- Civil Engineering
- Computer/Electrical/Mechanical Engineering
- Computer Forensics
- Computer Science
- Computer Software Engineering
- Design and Visual Communications
- Education
- Electronics Technology
- Information Technology
- Mathematics
- Robotics Technology
- Statistics
- Web Development
CORE: Advanced Math

Our Advanced Math Pathways are designed to provide students with a rigorous college preparatory curriculum and the highest level of math available.

Our Goal: To prepare students for entry into and success with college level math classes.

Required Courses:
- INT I
- INT II
- Double Period Math (Trig/PreCalc)
- AP Calculus AB
- AP Calculus BC*

* Students who enter Brooks with Algebra Credit will be able to take Calculus BC

Why Advanced Math?
- Avoid Remedial Math Classes that don’t count towards graduation in college.
- Look more appealing to Selective and Highly Selective Colleges/Universities
- Perform better on the SAT and ACT
The Humanities Pathway is designed to provide students with a rigorous curriculum that is rich in the humanities.

Our goal is to prepare you for college level research and writing in the humanities.

**Required Courses:**
- English III/ IV/ AP Lang/ AP Lit
- AP Human Geography
- AP Government/Civics
- AP United States History/ Honors US History
- AP World History

**Encouraged Courses:**
- College Writing
- AP Capstone (Seminar/ Research)
- AP Psychology
- AP Microeconomics

**Possible College Majors:**
- African American Studies
- Anthropology
- Business
- Comparative Literature
- Finance
- Global Studies
- History
- International Relations
- Peace and Conflict Resolution Studies
- Philosophy
- Political Science and Government
- Public Policy
- Psychology
- Sociology
- Urban Studies
The English Writing Pathway is designed to prepare students for analytical, research, and fiction writing.

**The Goal:** To develop strong writers who have a deep understanding in the writing process and a firm understanding of research based analytical writing. Students will have a portfolio of work that they can utilize for applying to schools and scholarships.

**Required Courses:**
- AP Literature
- AP Language
- Creative Writing
- College Writing (OR CAPSTONE)

**Encouraged Courses:**
- AP Capstone
- Any AP Social Science Class
- Topics in Literature
- Film Studies

**Possible College Majors:**
- American Studies
- Anthropology
- Classics
- Communication Science
- Comparative Literature
- Education
- English
- Film Studies
- History
- Journalism
- Library and Information Science
- Linguistics
- Philosophy
- Political Science and Government
- Pre Law
- Psychology
- Religious Studies
- Sociology
- Studio Arts
- Theater Arts