

CTAE PATHWAY GUIDE

NORTH FORSYTH HIGH SCHOOL



3635 Coal Mountain Drive, Cumming, GA 30028 | www.forsyth.k12.ga.us/nfhs

A/V Technology and Film



A/V TECHNOLOGY AND FILM students will design, manufacture, operate and/or repair audio visual equipment, create presentations of sound, video, and data in a variety of formats, gather information, prepare broadcasts, build sets, and operate equipment used to record and transmit programs and/or motion pictures, and operate sound mixing and/or video editing equipment.

PATHWAY COURSES

- Audio and Video Technology and Film I
- Audio and Video Technology and Film II
- Audio and Video Technology and Film III

CAREER CHOICES

- Audio and Video Equipment Technician
- Broadcast News Analyst
- Broadcast Technician
- Camera Operator
- Control Room Technician
- Editor
- Journalist
- Radio and Television Announcer
- Reporter
- Sound Technician
- Station Manager

INDUSTRY CREDENTIAL (Credential of Value): Adobe Certified Associate

Computer Science



COMPUTER SCIENCE students will prepare for entry-level, technical, and professional IT careers, including the design, development, implementation, and maintenance of computer systems and software, as well as knowledge of computer operating systems, programming languages, and software development required of cutting-edge technologies. Students will build a solid understanding and foundation of computer science which emphasis on computational thinking practices: connecting computing, developing computational artifacts, abstracting, analyzing problems and artifacts, communicating, and collaborating.

PATHWAY COURSES

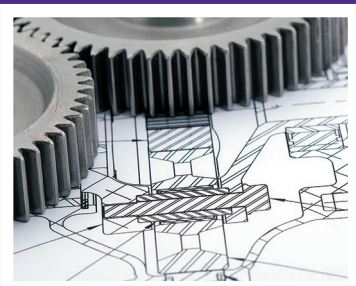
- Introduction to Software Technology
- Computer Science Principles or AP CS Principles
- AP Computer Science

CAREER CHOICES

- Computer Hardware Engineers
- Computer Network Architects
- Computer Programmers
- Computer System Analysts
- Database Administrators
- Information Security Analysts
- Information Systems Managers
- Network Administrators
- Software Developers
- Software Engineers
- Video Game Designers

INDUSTRY CREDENTIAL (Credential of Value): Microsoft Technology Associate (MTA): Software Development Fundamentals

Engineering and Technology



ENGINEERING AND TECHNOLOGY students will combine hands-on projects and rigorous curriculum to be prepared for challenging postsecondary engineering and technology problems; and build solid technical writing, comprehension, calculation, problem-solving, and technical skills. Students are encouraged to take relevant math and science courses, such as advanced algebra, chemistry, calculus, geometry, trigonometry, physics, design, and engineering concepts.

PATHWAY COURSES

- Foundations of Engineering and Technology
- Engineering Concepts
- Engineering Applications

CAREER CHOICES

- Civil Engineer
- Designer
- Drafter
- Electrical Engineer
- Industrial Engineer
- Machinist
- Manufacturing
- Materials Engineer
- Mechanical Engineer
- Quality Control Inspector

INDUSTRY CREDENTIAL (Credential of Value): NOCTI Engineering and OSHA 10

For more education on each pathway, download a complete Program of Study:

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Programs-of-Study.aspx>

