

CTAE PATHWAY GUIDE

ALLIANCE ACADEMY FOR INNOVATION



1100 Lanier 400 Parkway, Cumming, GA 30040 | www.forsyth.k12.ga.us/alliance

Aerospace/ Flight Operations



AEROSPACE/FLIGHT OPERATIONS students will gain a fundamental knowledge base in aviation history and regulations, the basic principles of flight, aerospace careers, and factors influencing work systems, aerospace technologies, and basic aviation meteorology. This pathway provides a foundation that enables the student to apply the basics of aircraft navigation and utilize efficient communication methods for safe aircraft operations.

PATHWAY COURSES

Fundamental of Aerospace
Flight Operations I
Flight Operations II

CAREER CHOICES

Aerospace Engineers
Air Traffic Controllers
Aircraft Cargo Handling Supervisors
Airfield Operations Specialists
Aviation Safety Specialists
Avionics Inspectors
Commercial Pilots
Flight Attendants
Operations Technicians

INDUSTRY CREDENTIAL (Credential of Value): Federal Aviation Administration Private Pilot Airplane Written Exam

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 Digital 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

Criminal Investigations



CRIMINAL INVESTIGATIONS students will examine the basic concepts of law related to citizens' rights and the responsibilities, and students will receive instruction in critical skill areas including: communicating with diverse groups, conflict resolution, ethics, CERT (Citizens Emergency Response Training, or similar program), basic firefighting, report writing, terrorism, civil and criminal law. Starting with historical perspectives of the origin of the system, the pathway reviews the overall structure.

PATHWAY COURSES

Introduction to Law, Public Safety, Corrections, & Security
Criminal Justice Essentials
Criminal Investigations

CAREER CHOICES

Attorney
Bailiff
Border Patrol
Correctional Officer/Jailer
Crime Scene Investigator
Detective
Forensic Science Technician
Judge
Paralegal
Parole Officer
Police Officer
Private Detective and Investigator
Probation Officer
Sheriff's Deputy
State Trooper

INDUSTRY CREDENTIAL (Credential of Value): NOCTI Criminal Justice

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>

