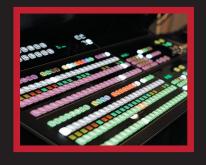
131 Almon C. Hill Dr, Cumming, GA 30040 | www.forsyth.k12.ga.us/fchs





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

## **Automotive Technology**



**AUTOMOTIVE TECHNOLOGY** students will learn the basic skills needed to gain employment as an entry level automotive technician. Students will be exposed to courses in automotive preventative maintenance, brakes, steering and suspension, electrical systems, engine repair, engine performance, automatic transmission, manual transmission and differential & automotive HVAC. The hours completed in this course are aligned with ASE standards and are a base for the entry-level technician.

## **PATHWAY COURSES**

General Automotive Technology 1, 2 and 3 Advanced Automotive Technology 4, 5 and 6 Automotive Service Technology Internship 1, 2 and 3

## **CAREER CHOICES**

Auto Manufacturer Sales or Service

Auto or Body Technician

**Automotive Engineer** 

**Automotive Mechanist** 

**Automotive Sales** 

**Body Shop Manager** 

Dealership or Shop Owner

Parts Professional

Quality Control Technician

Service Advisor

 $Specialized \, Technician \, Teacher$ 

Technician (ASE Certified)

INDUSTRY CREDENTIAL (Credential of Value): ASE Student Certification - 10 Areas

## **Cloud Computing**



**CLOUD COMPUTING** students will develop an overall understanding of cloud computing, cloud concepts, core services, security, architecture, and support. Technical content includes designing, developing, and deploying a virtual private network, creating a cloud environment that is scalable, and demonstrating safe use of big data. Students will also dive deeply into cloud computing best practices and learn how cloud computing helps users develop a global infrastructure.

## **PATHWAY COURSES**

Introduction to Software Technology

Computer Science Principles or AP CS Principles

Cloud Computing

## **CAREER CHOICES**

Software Engineer

Cloud Engineer

Data Engineer

System Engineer

Full Stack Developer

Java Developer

Data Scientist

Systems Administrator

.NET Developer

Front-end Developer

INDUSTRY CREDENTIAL (Credential of Value): Not Yet Approved by the Georgia Department of Education

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

131 Almon C. Hill Dr, Cumming, GA 30040 | www.forsyth.k12.ga.us/fchs





**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. Students will also gain knowledge of computer operating systems, programming languages, and gain knowledge of required 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 A

## **CAREER CHOICES**

Computer Hardware Engineer
Computer Network Architect
Computer Programmer
Computer System Analyst
Database Administrator
Information Security Analyst
Information Systems Manager
Network Administrator
Software Developer
Software Engineer
Video Game Designer

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

## Cosmetology



**COSMETOLOGY** students will learn both fundamental theory and practices of the personal care professions. Emphasis will be placed on professional practices and safety. Areas addressed include state rules and regulations, professional image, bacteriology, decontamination and infection control, chemistry fundamentals, safety, Hazardous Duty Standards Act compliance, and anatomy and physiology. Students will master shampooing, permanent waving, haircutting, basic skin care, and make-up application while maintaining safety and sanitation in the workplace set forth by OSHA standards.

## **PATHWAY COURSES**

Introduction to Personal Care Services Cosmetology Services II Cosmetology Services III

### **CAREER CHOICES**

Barber Stylist
Chemical Texture Specialist
Color Specialist Chemist
Cosmetologist
Cutting Specialist
Esthetician
Hair Color Specialist
Hairstylist
Make-up Artist
Nail Technicians
Salon Owner
Shampoo Tech
Wig Stylist

INDUSTRY CREDENTIAL (Credential of Value): NOCTI Cosmetology

## Education as a Profession



**EDUCATION AS A PROFESSION** students will learn to plan, manage, and provide education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services. They will be engaged in observations, interactions, and analyses of critical and contemporary educational issues and investigate issues influencing the social and political contexts of educational settings in Georgia and the United States and actively examines the teaching profession from multiple vantage points both within and outside of the school.

## **PATHWAY COURSES**

Education as a Profession I Education as a Profession II Education as a Profession Practicum

## **CAREER CHOICES**

Adult Educator

After-School Program Supervisor

Education Evaluator

**Educational and Teacher Aide** 

K-12 School Teacher

Media Specialist

Post-Secondary Vocational Education

Recreation Attendant

School Administration

Special Education Teacher

INDUSTRY CREDENTIAL (Credential of Value): NOCTI Teaching as a Profession (College EDUC 2110 Credit in Georgia)

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

131 Almon C. Hill Dr, Cumming, GA 30040 | www.forsyth.k12.ga.us/fchs





**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

## **Film Production**



**FILM PRODUCTION** prepares students with technical skill and employment needs for an entry level film production worker. Students participate in multiple class-created film production team simulations and film projects to develop a professional film portfolio. This portfolio may include documents, projects, documented work activities in various simulated film production departments and film clips and related projects showcasing student activities. Topics covered may include terminology, safety on a set, production teams, equipment, script writing, production, editing, post-production, and professional ethics.

## **PATHWAY COURSES**

Audio and Video Technology and Film Introduction to Film Production Film Production Applications

### **CAREER CHOICES**

Assistant Director

Audio and Video Equipment Tech

**Broadcast Technician** 

Camera Operators

Director of Photography

Grip

Lighting Technician

Photographer

Reporter

Script Supervisor

Set and Exhibit Designer

Sound Engineering Technician

Station Manager

Technical Directors/Manager

INDUSTRY CREDENTIAL (Credential of Value): Not Yet Approved by the Georgia Department of Education

## Healthcare -Biotechnology Research and Development



## HEALTHCARE - BIOTECHNOLOGY RESEARCH AND

**DEVELOPMENT** students will gain a broad understanding of the fundamentals of biotechnology and the impact on society. The knowledge and skills in this pathway provide a basic overview of current trends and careers in biotechnology, with an emphasis on basic laboratory skills, along with the business, regulatory, and ethical aspects of biotechnology. Additional applications and techniques in biotechnology that expand and increase the student's comprehension of how biotechnology utilizes living systems to create products and enhance lives are also an important part of the pathway.

## **PATHWAY COURSES**

Introduction to Healthcare Science Essentials of Biotechnology Applications of Biotechnology

## **CAREER CHOICES**

Biological or Medical Illustrator
Crime Lab Technician
Emergency Medical Technician
Field Biologist or Ecologist
Forensic Service Technician
Laboratory Technician
Licensed Practical Nurse
Medical Writer
Mortician
Nutritionist
Pediatric Nurse

Radiology Technician

**Phlebotomist** 

INDUSTRY CREDENTIAL (Credential of Value): Precision Biotechnology

131 Almon C. Hill Dr, Cumming, GA 30040 | www.forsyth.k12.ga.us/fchs





MARKETING AND MANAGEMENT students will focus on managing the processes responsible for identifying, anticipating, and satisfying customer requirements in a manner that is profitable for the business. Student skills include management and entrepreneurship, marketing, buying and merchandising, marketing communications and promotion, professional sales, marketing information management and research, channel management, global marketing, and internet/online marketing.

## **PATHWAY COURSES**

Marketing Principles
Marketing and Entrepreneurship
Marketing Management

## **CAREER CHOICES**

Advertising Account Executive

**Communications Specialist** 

**Customer Service Representative** 

**Entertainment Marketer** 

Insurance Agent

**Logistics Specialist** 

Market Research Analyst

Marketing Specialist

Media Buyer

**Product Development Management** 

**Public Relations Specialist** 

INDUSTRY CREDENTIAL (Credential of Value):MBA Standard Marketing Program of Study/End of Program HS Exam

## Marketing Communications and Promotions



## **MARKETING COMMUNICATIONS AND PROMOTIONS**

students will focus on the performance of key responsibilities required in a retail environment and develop skills in pricing, visual merchandising, advertising, special promotions, professional sales, and customer service. They will also better understand the communication aspects of business in relation to customer/consumer relationships. Students develop knowledge and skills in advertising, direct marketing, public relations, sales promotions, and digital marketing communications.

## **PATHWAY COURSES**

Marketing Principles Promotional and Digital Marketing Integrated Marketing Communications

### **CAREER CHOICES**

Advertising and Promotions Manager

**Advertising Sales Agent** 

Green Marketer

Market Research Analyst

Marketing Manager

Marketing Strategist

**Public Relations Specialist** 

Sales Manager

Sales Representative

 $\textbf{INDUSTRY CREDENTIAL (Credential of Value): MBA Standard Marketing Program of Study/End of Program HS Example 1 and 1$ 

## Nutrition and Food Science



**NUTRITION AND FOOD SCIENCE** students will focus on healthy food and lifestyle choices. Students will investigate the interrelationship of food, nutrition and wellness to promote good health. The most common nutritional concerns, their relationship to food choices and health status and strategies to enhance well-being at each stage of the lifecycle are also emphasized, and students will evaluate the effects of processing, preparation, and storage on the quality, safety, wholesomeness, and nutritive value of foods.

## **PATHWAY COURSES**

Food, Nutrition, and Wellness Food for Life Food Science

## CAREER CHOICES

Chef and Head Cook

Dietician/Nutritionist

Food Inspector

Food Scientist and Technologist

Food Services Manager

Geriatric Food Designer

Health Educator

INDUSTRY CREDENTIAL (Credential of Value): ServSafe Food Safety Handler Certification

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

131 Almon C. Hill Dr, Cumming, GA 30040 | www.forsyth.k12.ga.us/fchs





### SPORTS AND ENTERTAINMENT MARKETING

students will learn about the major segments of the sports and entertainment industry and the social and economic impact the industry has on the local, state, national, and global economies. The products and services offered to consumers and the impact of marketing on these products and services are examined. Students will also have opportunities to develop managerial and analytical skills and deepen their knowledge in sports/entertainment marketing.

### **PATHWAY COURSES**

Marketing Principles
Introduction to Sports and Entertainment Marketing
Advanced Sports and Entertainment Marketing

### **CAREER CHOICES**

Agent

**Communications Specialist** 

Customer Service Representative

**Demonstrator and Product Promoter** 

**Entertainment Marketer** 

Entrepreneur

Market Research Analyst

Marketing Specialist

Media Buyer

**Product Development Management** 

**Public Relations Specialist** 

INDUSTRY CREDENTIAL (Credential of Value): MBA Standard Marketing Program of Study/End of Program HS Exam

## Veterinary Science



**VETERINARY SCIENCE** students will learn the major areas of scientific agricultural production and research and learn problem solving lessons, introductory skills, and knowledge in agricultural science and agri-related technologies. This pathway also covers the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care.

## **PATHWAY COURSES**

Basic Agricultural Science Animal Science and Biotechnology Veterinary Science

#### **CAREER CHOICES**

Animal Physical Therapist

Animal Welfare Specialist

**Animal Care Specialist** 

Artificial Insemination Technician

Breed Association Sales/Promotion

Cell Culture Specialist

Companion Animal Breeder

Companion Animal Nutrition Specialist

Dairy Unit Herdsman/Manager

Embryo Transfer Technician

Veterinarian

Veterinary Tech

INDUSTRY CREDENTIAL (Credential of Value): Precision Veterinary Assistant