

CTAE PATHWAY GUIDE

WEST FORSYTH HIGH SCHOOL



4155 Drew Rd, Cumming, GA 30040 | www.forsyth.k12.ga.us/wfhs

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. 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

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

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Culinary Arts



CULINARY ARTS students will complete a variety of skills required by the restaurant and food industry such as knife skills, cooking techniques, menu planning, food purchasing and costing, food safety and sanitation, and front of the house service. The pathway allows students to develop in-depth knowledge and hands-on skill mastery of culinary arts and allows them to refine hands-on production of the classic fundamentals in the commercial kitchen.

PATHWAY COURSES

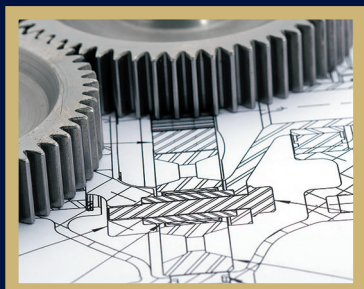
Introduction to Culinary Arts
Culinary Arts I
Culinary Arts II

CAREER CHOICES

Cake Designer
Caterer
Chef and Head Cook
Dining Room Management
Food and Beverage Director
Food Services Manager
Food Stylist and Photographer
Food Writer and Critic
Kitchen Manager
Pastry Chef
Personal Chef
Restaurant Entrepreneur

INDUSTRY CREDENTIAL (Credential of Value): American Culinary Federation (ACFEF) Secondary Culinary Graduate

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

Fashion Marketing



FASHION MARKETING students will be introduced to the retail industry including the fundamentals of fashion marketing, key marketing concepts essential to every business, types of businesses involved in the industry, and an array of career opportunities. Students will develop skills in such areas as fashion economics, marketing segmentation and target marketing, product selection and buying, and inventory system. The pathway will also help them develop skills necessary for managing pricing, visual merchandising, advertising, special promotions, professional sales, and customer service.

PATHWAY COURSES

Marketing Principles
Fashion, Merchandising, and Retailing Essentials
Advanced Fashion, Merchandising, and Retailing

CAREER CHOICES

Advertising and Promotions Manager
Brand Manager
Entrepreneurs/Company Owner
Fashion Designer
General Merchandise Manager
Merchandise Analyst
Manufacturer's Sales Representative
Online Merchant
Product Developer
Retail Buyer
Visual Merchandiser
Wholesale and Retail Buyer

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

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Healthcare - Allied Health and Medicine



HEALTHCARE - ALLIED HEALTH AND MEDICINE exposes students to the healthcare industry and jobs offered in a variety of establishments: hospitals, nursing and residential care facilities, physicians, dental, and other health practitioners offices, home health care services, outpatient care centers, ambulatory health care services and medical and diagnostic laboratories.

PATHWAY COURSES

Introduction to Healthcare Science
Essentials of Healthcare
Allied Health and Medicine

CAREER CHOICES

Clinical Laboratory Technician
Dental Hygienist
EMT
Medical Doctor
Medical Laboratory Technician
Orthopedic Technologist
Paramedic
Pediatrician
Pharmacist
Physical Therapist
Radiologic Technologist
Surgical Technologist

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

Marketing and Management



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

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

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Sports and Entertainment Marketing



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

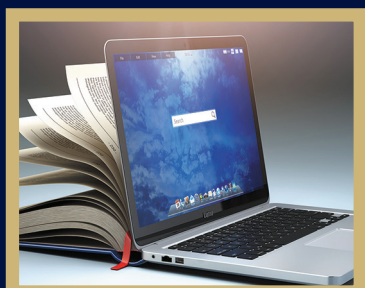
Marketing Principles
Introduction to Sports and Entertainment Marketing
Advanced Sports and Entertainment Marketing

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

Teaching as a Profession



TEACHING 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

Examining the Teaching Profession
Contemporary Issues in Education
Teaching as a Profession Practicum

CAREER CHOICES

Adult Educator
After-School Program Supervisor
Coach
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)

Web Development



WEB DEVELOPMENT students will learn to develop and design responsive web sites through coding, testing, debugging and implementation of web-based services. This pathway will also allow students to learn about content management systems, client side languages, server side languages, and database concepts. It is designed to give students foundational knowledge of "front-end" and "back-end" development to address the presentation and data access layers of web site development.

PATHWAY COURSES

Introduction to Software Technology
Computer Science Principles
Web Development

CAREER CHOICES

Computer Specialist
Database Developer
Internet Specialist
Multimedia Developer
Network Analyst
Network Engineer
Programmer
Video Game Developer
Web Developer
Webmaster
Website Designer
Software Trainer

INDUSTRY CREDENTIAL (Credential of Value): CIW Site Development Associate

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