

CTAE PATHWAY GUIDE

EAST FORSYTH HIGH SCHOOL



8910 Jot Em Down Rd., Gainesville, GA 30506 | www.forsyth.k12.ga.us/efhs

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 Premiere Pro

Architecture Drawing and Design



ARCHITECTURE/DRAFTING AND DESIGN students will learn about safety, geometric construction, fundamentals of computer-aided drafting, and multi-view drawings. They will also learn drafting techniques through the study of geometric construction and the basic terminology, concepts, and principles of architectural design. The pathway also places emphasis on the design process, site plans, electrical plans, and plumbing plans.

PATHWAY COURSES

Introduction to Drafting and Design
Architectural Drawing and Design I
Architectural Drawing and Design II

CAREER CHOICES

Architect
Architectural Engineer
Building Inspector
Civil Engineer
Drafter
Electrical Engineer
Environmental Engineer
Landscape Designer
Mechanical Drafter
Surveying and Mapping Technician
Urban Planner

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Architectural Drafting

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): NOCTI: Information Technology (IT) Specialist - Software Developmentg

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

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Construction/Carpentry



CONSTRUCTION/CARPENTRY students will learn the basic knowledge to function safely on or around a construction site and provide them a solid foundation in carpentry skills and knowledge. The pathway introduces students to four construction craft areas and allows them to gain Level One Industry Certification in one of the craft areas. Students will learn the history and traditions of carpentry, masonry, plumbing, and electrical craft trades and the care and safe use of hand and power tools as they relate to each trade.

PATHWAY COURSES

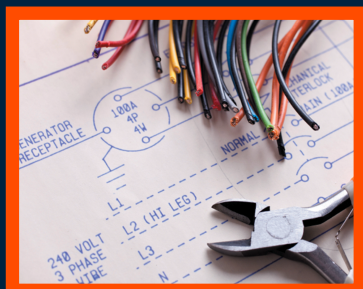
Industry Fundamentals and Occupational Safety
Introduction to Construction
Carpentry I

CAREER CHOICES

Building Inspector
Construction Inspector
Construction Manager
Home Improvement Associate
Mason
Pipefitter
Plumber
Sheet Metal Worker
Welder

INDUSTRY CREDENTIAL (Credential of Value): NCCER: Carpentry Level I

Construction/Electrical



CONSTRUCTION/ELECTRICAL prepares students for the basic knowledge to function safely on construction sites. Students will also learn and apply knowledge of the care and safe use of hand and power tools. In addition, students will be introduced to and develop skills to differentiate between blueprints, concepts of electrical safety introduced in Occupational Safety and provide knowledge and basic skills of the hardware and systems used by an electrician plus general knowledge of the National Electrical Code and electrical systems.

PATHWAY COURSES

Industry Fundamentals and Occupational Safety
Introduction to Construction
Electrical I

CAREER CHOICES

Cost Estimators Electrician
Construction Engineer
Construction Foremen
Electrical Craft Laborer
Electrical Engineer
Electrician
Electrician Helper
Electronic Systems Technician
Project Inspector

INDUSTRY CREDENTIAL (Credential of Value): NCCER: Electrical Level I

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): NOCTI: Culinary Arts Cook Level II

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Early Childhood Education



EARLY CHILDHOOD EDUCATION students will learn the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. The pathway provides a history of education, licensing and accreditation requirements, and foundations of basic observation practices and applications. Early childhood care, education, and development issues are also addressed and include health, safety, and nutrition education.

PATHWAY COURSES

Early Childhood Education I
Early Childhood Education II
Early Childhood Education Practicum

CAREER CHOICES

After-School Program Supervisor
Child Care Administrator
Child Care Director and Owner
Child Care Supervisor
Education Administrator
Educational and Teacher Aide
Elementary School Teacher
Kindergarten Teacher
Preschool Teacher
Recreation Attendant
Special Education Teacher

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Early Childhood Education and Care – Basic

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

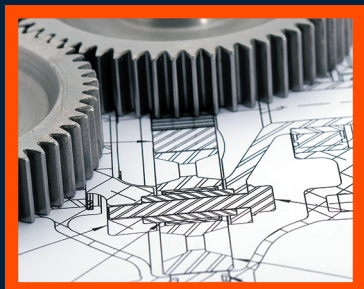
Education as a Profession I
Education as a Profession II
Education as a Profession Practicum

CAREER CHOICES

Adult Educator
After-School Program Supervisor
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

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

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Entrepreneurship



ENTREPRENEURSHIP students focus on recognizing a business opportunity, starting a business, operating and maintaining a business. Students will align business goals that focus on planning, organizing, coordinating, and controlling the resources needed to produce and provide goods and/or services that lead to owning and operating a small business. They will learn statutes and regulations affecting businesses, families, and individuals.

PATHWAY COURSES

Introduction to Business and Technology
Legal Environment of Business
Entrepreneurship

CAREER CHOICES

Advertising and Promotion Manager
Business Manager
Chief Executive Officer
Claims Adjuster or Examiner
Computer Systems Analyst
Cost Estimator
Database Administrator
Financial Analyst or Manager
Network and Computer System
Paralegal and Legal Assistant
Personal Financial Advisor
Training and Development Manager

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: General Management

Heavy Equipment Operations



HEAVY EQUIPMENT OPERATIONS Students will gain foundational knowledge in construction including carpentry, plumbing, electrical, welding and HVAC. The pathway will focus and build on the concepts related to earthmoving as well as reading and using blueprints and specifications related to grading and grade calculations. The pathway provides specific knowledge and skills in operating and maintaining utility tractors and heavy equipment.

PATHWAY COURSES

Industry Fundamentals and Occupational Safety
Introduction to Heavy Equipment
Heavy Equipment Operations I

CAREER CHOICES

Articulated Dump Truck Operator
Backhoe and Dozer Operator
Forklift Operator
Heavy Equipment Mechanic
Heavy Equipment Operator
Heavy Equipment Service Technician
HVAC
Pipe Layer
Plumbing
Welding

INDUSTRY CREDENTIAL (Credential of Value): NCCER: Heavy Equipment Level I

Interiors, Fashion, and Textiles



INTERIORS, FASHION, AND TEXTILES students will learn the fundamentals of design and the interior design profession, including the fascinating world of how textiles are woven into the fabric of everyday life. The pathway will allow students to advance skills in the selection, purchase, design, care, and construction of textile products and about textiles for apparel, interior furnishings, and industrial applications.

PATHWAY COURSES

Foundations of Interior Design
Fundamentals of Fashion
Fundamentals of Textile Science

CAREER CHOICES

Art and Design Worker
Fashion Designer
Interior Designer
Personal Shopper
Purchasing Manager
Retail Merchandiser
Sales Executive
Textile, Apparel and Furnishing Worker
Visual Merchandiser
Wholesale and Retail Buyer

INDUSTRY CREDENTIAL (Credential of Value): AAFCS Interior Design Fundamentals Pre-Professional Assessment and Certification

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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): Standard Marketing Program of Study

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