

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



AUDIO/VIDEO TECHNOLOGY AND FILM PATHWAY

This pathway teaches all aspects of video production from pre-production, production, and post-production, including theory and practical application. Students will have the opportunity to participate in various types of broadcast/video production from events and commercials to mini-movies and documentaries.

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

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

INDUSTRY CREDENTIAL (Credential of Value): Adobe Premiere Pro

Computer Science



COMPUTER SCIENCE PATHWAY Careers in Computer Science lead individuals to create, modify, and test codes - all while inventing and designing new approaches to computing technology and finding innovative uses for existing technology. Career area focus requires solving complex problems in computing for business, medicine, science, and other fields.

PATHWAY COURSES

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

CAREER CHOICES

Computer Programmers
Computer Hardware Engineers
Computer Network Architects
Computer System Analysts
Database Administrators
Information Security Analysts
Software Developers
Software Engineers
Software Testers

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Information Technology (IT) Specialist - Software Development

Construction/Carpentry



CONSTRUCTION/CARPENTRY PATHWAY

Construction is one of the nation's largest industries with over 7 million wage and salary jobs and 1.9 million self-employed workers. Construction includes the building of new structures as well as additions and modifications to existing ones. The construction industry also includes maintenance, repair and improvements on these structures.

PATHWAY COURSES

Industry Fundamentals and Occupational Safety
Introduction to Construction
Carpentry I

CAREER CHOICES

Construction Inspector or Manager
Drywall Installer
Electrician
Floor Layer
Mason
Painter
Project Inspector or Manager
Plumber and Pipefitter
Roofer
Sheet Metal Worker

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

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

<https://www.forsyth.k12.ga.us/district-services/community-engagement-lifelong-education/new-college-career/about>

CTAE PATHWAY GUIDE

EAST FORSYTH HIGH SCHOOL



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

Culinary Arts



CULINARY ARTS PATHWAY This pathway introduces students to fundamental food preparation terms, concepts, and methods in culinary arts. Fundamental techniques, skills, and terminology are covered and mastered with an emphasis on basic kitchen and dining room safety, sanitation, equipment maintenance and operation procedures. Courses provide an overview of the professionalism in the culinary industry and career opportunities leading into a career in culinary arts.

PATHWAY COURSES

Introduction to Culinary Arts
Culinary Arts I
Culinary Arts II

CAREER CHOICES

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
Personal Chef
Prep Cook
Restaurant Entrepreneur
Sous Chef

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Culinary Arts Cook Level II

Early Childhood Education



EARLY CHILDHOOD EDUCATION PATHWAY Educational services is the second largest industry. This includes elementary, middle and secondary schools, universities, colleges, professional schools, community or junior colleges and career and technical institutes. The overall demand for educational services will increase as growing emphasis on improving education along with retirements will create large numbers of job openings.

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
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 PATHWAY Educational services is the second largest industry which includes a variety of institutions that offer academic education or career and technical instruction. This includes elementary, middle and secondary schools, universities, colleges, professional schools, community or junior colleges and career and technical institutes. The overall demand for educational services will increase as growing emphasis on improving education along with retirements will create large numbers of job openings.

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 Education
Recreation Attendant
School Administration
Special Education Teacher

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Teaching as a Profession

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

<https://www.forsyth.k12.ga.us/district-services/community-engagement-lifelong-education/new-college-career/about>

CTAE PATHWAY GUIDE

EAST FORSYTH HIGH SCHOOL



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

Engineering and Technology



ENGINEERING AND TECHNOLOGY PATHWAY The major focus of the Introduction to Engineering Design (IED) course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. It also allows students to develop strategies to enable and direct their own learning.

PATHWAY COURSES

Foundations of Engineering and Technology
Engineering Concepts
Engineering Applications

CAREER CHOICES

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

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Engineering

Entrepreneurship



ENTREPRENEURSHIP PATHWAY Entrepreneurs, innovators, and small businesses play a key role in Georgia's economy. Business professionals may be managers, owners, accountants, economists, administrators, or analysts. These individuals must possess excellent communication skills and be able to establish working relationships with many different people.

PATHWAY COURSES

Introduction to Business and Technology
Legal Environment of Business
Entrepreneurship

CAREER CHOICES

Advertising and Promotion Manager
Business Educator
Chief Executive Officer
Claims Adjuster or Examiner
Computer Systems Specialist
Cost Estimator
Database Administrator
Financial Analyst or Manager
Network and Computer Analyst
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 PATHWAY 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
Pipe Layer
Welding

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

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

<https://www.forsyth.k12.ga.us/district-services/community-engagement-lifelong-education/new-college-career/about>

CTAE PATHWAY GUIDE

EAST FORSYTH HIGH SCHOOL



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

Interiors, Fashion, and Textiles



INTERIORS, FASHION, AND TEXTILES PATHWAY

Students enrolled in the Interior Design pathway will learn about colors, textures, furniture, lighting, and space in public and private sectors including offices, airports, theaters, malls, restaurants, hotels, schools, hospitals, and private homes. Students will use the latest software applications to learn about designing, planning, managing, building and maintaining the built environment.

PATHWAY COURSES

Foundations of Interior Design
Fundamentals of Fashion
Textile Science

CAREER CHOICES

Commercial or Industrial Designer
Computer Aided Drafter (CAD)
Display Designer
Furnishing Sales Manager Furniture
Interior Designer
Designer Manufacturers' Representative
Photographer
Renderer
Retail Manager
Set Designer
Specifications Writer

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

Marketing and Management



MARKETING AND MANAGEMENT PATHWAY Students develop knowledge and skills in the foundational areas of marketing (economics, human relations and business basics) and the functional areas of marketing (product and service planning, marketing information management, purchasing and pricing, selling and promotion, risk management, financing and distribution/logistics), as well as international marketing, management and entrepreneurship.

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
Public Relations Specialist
Real Estate Agent

INDUSTRY CREDENTIAL (Credential of Value): Standard Marketing Program of Study

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

<https://www.forsyth.k12.ga.us/district-services/community-engagement-lifelong-education/new-college-career/about>