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 improve-ments 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

Healthcare - Allied Health and Medicine



HEALTHCARE - ALLIED HEALTH AND MEDICINE PATHWAY The healthcare industry offers jobs 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
- EMT
- Medical Doctor
- Medical Laboratory Technician
- Orthopedic Technologist
- Paramedic
- Pediatrician
- Pharmacist
- Physical Therapist
- Radiologic Technologist
- School Nurse
- Surgical Technologist

INDUSTRY CREDENTIAL (Credential of Value): Certified Clinical Medical Assistant

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

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

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