

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

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-AAVTC-Audio-Video-Tech-Film.pdf>

Architecture/Drafting 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 principals 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

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Architecture-Construction-Drawing-Design.pdf>

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, as well as knowledge of computer operating systems, programming languages, and software development required of 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 Digital Technology
Computer Science Principles or AP CS Principles
AP Computer Science

CAREER CHOICES

Computer Hardware Engineers
Computer Network Architects
Computer Programmers
Computer System Analysts
Database Administrators
Information Security Analysts
Information Systems Managers
Network Administrators
Software Developers
Software Engineers
Video Game Designers

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Information-Technology-Computer-Science.pdf>

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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
Electrician
Home Improvement Associate
Mason
Pipefitter
Plumber
Sheet Metal Worker
Welder

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Architecture-Construction-Carpentry.pdf>

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

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Hospitality-Tourism-Culinary-Arts.pdf>

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 III
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

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Education-Training-Early-Childhood-Education-II.pdf>

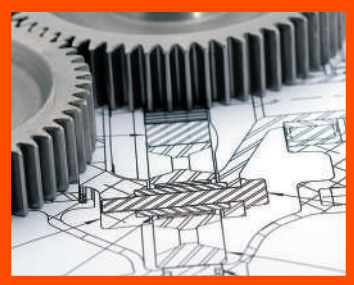
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Engineering and Technology



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

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-STEM-Engineering-Technology.pdf>

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 Educator
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

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-BMA-Entrepreneurship.pdf>

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
Textile Science

CAREER CHOICES

Art and Design Workers
Fashion Designers
Interior Designers
Personal Shoppers
Purchasing Managers
Retail Merchandisers
Sales Executives
Textile, Apparel and Furnishing Workers
Visual Merchandisers
Wholesale and Retail Buyers

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Human-Services-Interiors-Fashion-Textiles.pdf>

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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

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Marketing-Marketing-Management.pdf>

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
- Promotion and Professional Sales
- Marketing Communications Essentials

CAREER CHOICES

- Advertising and Promotions Manager
- Advertising Sales Agents
- Green Marketers
- Market Research Analysts
- Marketing Managers
- Marketing Strategists
- Public Relations Specialists
- Sales Managers
- Sales Representatives

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Marketing-Marketing-Communications-Promotion.pdf>

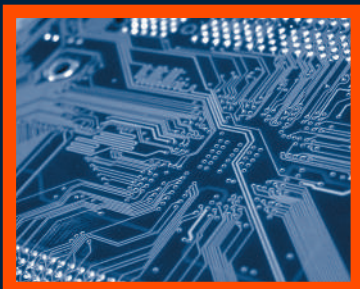
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Programming



PROGRAMMING students will learn essential skills involved in the design, development, implementation, and maintenance of computer systems and software, requiring knowledge of computer operating systems, programming languages, and software development. Students are able to strategize, design, and develop games and mobile and desktop applications that can be produced in the real world and learn about life-cycles of project development and use models to develop applications. Attention will be placed on how user interfaces affect the usability and effectiveness of a game or an application.

PATHWAY COURSES

Introduction to Digital Technology
Computer Science Principles
Programming, Apps, Games and Society

CAREER CHOICES

Actuaries
Computer Programmers
Computer Scientist
Computer Systems Analyst
Computing Systems Manager
Computer Software Engineer
Database Administrator
Information Systems Manager
Mathematician

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Information-Technology-Programming.pdf>

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 Internship

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

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/POS-Education-Training-Teaching-as-a-Profession.pdf>