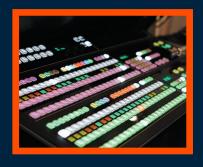


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## A/V Technology and Film



**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

## 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** 

### **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

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

Electrician

Home Improvement Associate

Mason

Pipefitter

Plumber

Sheet Metal Worker

Welder

INDUSTRY CREDENTIAL (Credential of Value): National Center for Construction Education and Research (NCCER) Carpentry Level 1 & OSHA 10

### **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

## 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): Early Care & Education: Entry Level Child Care Training Certification

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

https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Programs-of-Study.aspx



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### **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 (College EDUC 2110 Credit in Georgia)

## **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

### 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

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

https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Programs-of-Study.aspx



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## 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): Not Yet Approved by the Georgia Department of Education

### 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): MBA Standard Marketing Program of Study/End of Program HS Exam

## 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

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

https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Programs-of-Study.aspx