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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

INDUSTRY CREDENTIAL (Credential of Value): Adobe Certified Associate

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

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

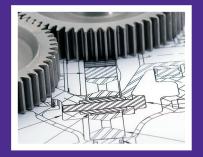
INDUSTRY CREDENTIAL (Credential of Value): NOCTI Teaching as a Profession (College EDUC 2110 Credit in Georgia)

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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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

Healthcare-Public Health



explore occupations and skill sets in environmental health, community health, epidemiology, disaster management, and geriatrics. Students will gain a deeper understanding of the legal, ethical responsibilities of today's healthcare worker and will have a competitive edge to be the better candidate for either an entry level position into the healthcare global marketplace and/or post-secondary institution to continue their education and training.

PATHWAY COURSES

Introduction to Healthcare Science Essentials of Healthcare Applications of Public Health

CAREER CHOICES

Community Health Worker

Emergency Management

Environmentalist

Epidemiologist

Health Educator

Nursing

Physician

INDUSTRY CREDENTIAL (Credential of Value): Not Yet Approved by the Georgia Department of Education

Healthcare-Sports Medicine



HEALTHCARE - SPORTS MEDICINE students will learn about the musculoskeletal system, injury assessment, injury prevention, or rehabilitation for careers in sports medicine and rehabilitative services. This pathway enables students to receive initial exposure to therapeutic services skills and attitudes applicable to the healthcare industry. The concepts of anatomy and physiology, assessment, preventative and rehabilitative care are also introduced. Fundamental healthcare skills development is initiated, including medical terminology, kinesiology, patient assessment, record keeping, and basic life support.

PATHWAY COURSES

Introduction to Healthcare Science Essentials of Healthcare Sports Medicine

CAREER CHOICES

Athletic Trainer

Chiropractor

Doctor of Osteopathic Medicine

Doctor of Podiatric Medicine

Massage Therapist

Occupational Therapist

Orthopedic Doctor

Physical Therapy Assistant

Physician's Assistant

Radiologist

Radiologist Technician

INDUSTRY CREDENTIAL (Credential of Value): Athletic Training Student Aide

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JROTC



JROTC students will learn the foundation for subsequent Leadership Education courses by teaching the basics of leadership, citizenship, personal growth, appearance and responsibility, general Marine Corps knowledge, drill, and physical training. An introduction to career awareness is also introduced, along with an emphasis placed on development of leadership skills, citizenship, physical training and drill.

PATHWAY COURSES

MCJROTC Leadership Education I/II MCJROTC Leadership Education III/IV MCJROTC Leadership Education V/VI MCJROTC Leadership Education VII/VIII

CAREER CHOICES

Administration

Air Traffic Controller

Aviation Ordinance

Broadcast Specialist

Computer

Criminal Investigation

Flight Crew

Intelligence

Military Police

Missile Fire Control Operator

Naval Aviation (Pilot)

Transportation Management

INDUSTRY CREDENTIAL (Credential of Value): Not Yet Approved by the Georgia Department of Education

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

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 Promotional and Digital Marketing Integrated Marketing Communications

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

 $\textbf{INDUSTRY CREDENTIAL (Credential of Value): MBA Standard Marketing Program of Study/End of Program HS Example 1 and 1$

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

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Nutrition and Food Science



NUTRITION AND FOOD SCIENCE students will focus on healthy food and lifestyle choices. Students will investigate the interrelationship of food, nutrition and wellness to promote good health. The most common nutritional concerns, their relationship to food choices and health status and strategies to enhance well-being at each stage of the lifecycle are also emphasized, and students will evaluate the effects of processing, preparation, and storage on the quality, safety, wholesomeness, and nutritive value of foods.

PATHWAY COURSES

Food, Nutrition, and Wellness Food for Life Food Science

CAREER CHOICES

Chef and Head Cook

Dietician/Nutritionist

Food Inspector

Food Scientist and Technologist

Food Services Manager

Geriatric Food Designer

Health Educator

INDUSTRY CREDENTIAL (Credential of Value): ServSafe Food Safety Handler Certification

Veterinary Science



VETERINARY SCIENCE students will learn the major areas of scientific agricultural production and research and learn problem solving lessons, introductory skills, and knowledge in agricultural science and agri-related technologies. This pathway also covers the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care.

PATHWAY COURSES

Basic Agricultural Science Animal Science and Biotechnology Veterinary Science

CAREER CHOICES

Animal Physical Therapist

Animal Welfare Specialist

Animal Care Specialist

Artificial Insemination Technician

Breed Association Sales/Promotion

Cell Culture Specialist

Companion Animal Breeder

Companion Animal Nutrition Specialist

Dairy Unit Herdsman/Manager

Embryo Transfer Technician

Veterinarian

Veterinary Tech

INDUSTRY CREDENTIAL (Credential of Value): Precision Veterinary Assistant

Web Development



WEB DEVELOPMENT students will learn to develop and design responsive web sites through coding, testing, debugging and implementation of web-based services. This pathway will also allow students to learn about content management systems, client side languages, server side languages, and database concepts. It is designed to give students foundational knowledge of "front-end" and "back-end" development to address the presentation and data access layers of web site development.

PATHWAY COURSES

Introduction to Software Technology Computer Science Principles Web Development

CAREER CHOICES

Computer Specialist

Database Developer

Internet Specialist

Multimedia Developer

Network Analyst

Network Engineer

Programmer

Video Game Developer

Web Developer

Webmaster

Website Designer

Software Trainer

INDUSTRY CREDENTIAL (Credential of Value): CIW Site Development Associate

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