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Companion Animal Systems



COMPANION ANIMAL SYSTEMS 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 introduces students to the scientific principles that underlie the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products. Students will also learn skills and concepts involved with the care and management of companion animals.

PATHWAY COURSES

Basic Agriculture Science Animal Science and Biotechnology Small Animal Care

CAREER CHOICES

Agricultural Animals

Agricultural Inspectors

Agriculture Teachers

Animal Breeders

Animal Care and Service Workers

Animal Scientists

Biological Technicians

Nonfarm Animal Caretakers

Ranch Managers

Veterinarians

Veterinary Assistants

Veterinary Technicians

https://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/AFNR-POS-Companion-Animal-Systems.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

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

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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

Fashion Marketing



FASHION MARKETING students will be introduced to the retail industry including the fundamentals of fashion marketing, key marketing concepts essential to every business, types of businesses involved in the industry, and an array of career opportunities. Students will develop skills in such areas as fashion economics, marketing segmentation and target marketing, product selection and buying, and inventory system. The pathway will also help them develop skills necessary for managing pricing, visual merchandising, advertising, special promotions, professional sales, and customer service.

PATHWAY COURSES

Marketing Principles Fashion, Merchandising, and Retailing Essentials Advanced Fashion, Merchandising, and Retailing

CAREER CHOICES

Advertising and Promotions Manager

Brand Managers

Entrepreneurs/Company Owners

Fashion Designers

General Merchandise Managers

Merchandise Analysts

Manufacturer's Sales Representatives

Online Merchants

Product Developers

Retail Buyers

Visual Merchandisers

Wholesale and Retail Buyers

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Financial Services



FINANCIAL SERVICES students will 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. Methods for measuring the financial performance of financial institutions and investments are also analyzed.

PATHWAY COURSES

Introduction to Business and Technology Financial Literacy Banking, Investing and Insurance

CAREER CHOICES

Accountant

Auditor

Business Teacher

Claims Adjuster

Financial Project Specialist

Financial Planner

Insurance Sales Agent

Research

Sales and Service

https://www.gadoe.org/Curriculum-Instruction- and -Assessment/CTAE/Documents/POS-Finance-Financial-Services.pdf

Manufacturing



MANUFACTURING students are provided an overview of the safe use of tools and equipment used in the industry. Students will be able to apply their knowledge of computer aided design (CAD), computer numerical control (CNC), robotics, computer assisted manufacturing (CAM), programmable logic controllers (PLC), automated guided vehicles (AGV), and computer integrated manufacturing (CIM). The pathway provides an understanding of how to design and implement a production system and how businesses engage in the production of products.

PATHWAY COURSES

Introduction to Manufacturing and Materials Science Robotics and Automated Systems Production Enterprises

CAREER CHOICES

Control System Analyst
Department Manager
Manufacturing Engineer
Manufacturing Supervisor
Plant Manager
Production Supervisor
Quality Supervisor
Technician
Welder

https://www.gadoe.org/Curriculum-Instruction- and -Assessment/CTAE/Documents/POS-Manufacturing.pdf

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

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Sports and Entertainment Marketing



SPORTS AND ENTERTAINMENT MARKETING students

will learn about the major segments of the sports and entertainment industry and the social and economic impact the industry has on the local, state, national, and global economies. The products and services offered to consumers and the impact of marketing on these products and services are examined. Students will also have opportunities to develop managerial and analytical skills and deepen their knowledge in sports/entertainment marketing.

PATHWAY COURSES

Marketing Principles Introduction to Sports and Entertainment Marketing Advanced Sports and Entertainment Marketing

CAREER CHOICES

Agent

Communications Specialist

Customer Service Representative

Demonstrator and Product Promoter

Entertainment Marketer

Entrepreneur

Market Research Analyst

Marketing Specialist

Media Buyer

Product Development Management

Public Relations Specialist

https://www.gadoe.org/Curriculum-Instruction- and -Assessment/CTAE/Documents/POS-Hospitality-Tourism-Sports-Entertainment-Marketing.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

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

Veterinary Tech

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