

CTAE PATHWAY GUIDE

LAMBERT HIGH SCHOOL



805 Nichols Rd, Suwanee, GA 30024 | www.forsyth.k12.ga.us/lhs

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

Business Accounting



BUSINESS ACCOUNTING PATHWAY Strong growth in accounting jobs throughout the next decade is expected to occur due to the increased growth in the number of new businesses and stricter accounting and auditing regulations.

PATHWAY COURSES

Introduction to Business and Technology
Financial Literacy
Principles of Accounting I

CAREER CHOICES

Auditing Clerk
Auditor
Bookkeeper
Budget Analyst
Certified Public Accountant
Corporate Accountant
Financial Advisor or Analyst
Forensic Accountant
Government Accountant
Income Tax Professional
Non-Profit Accountant

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Accounting - Basic

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

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

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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

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

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

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Financial Services



FINANCIAL SERVICES PATHWAY This pathway introduces students to the basics of the banking system, bank operating procedures, negotiable instruments, and the deposit and credit functions of banks. Current issues and future trends in banking are examined. Students explore the major functions of bank employees by completing a flow-of-work simulation. Students formulate business and individual investment decisions by comparing and contrasting a variety of investment options.

PATHWAY COURSES

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

CAREER CHOICES

Accountant
Auditor
Business Teacher
Claims Adjuster
Financial Planner
Insurance Sales Agent
Investment Banker
Loan Officer
Salesperson
Tax Associate

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Financial and Investment Planning

Healthcare - Biotechnology Research and Development



HEALTHCARE - BIOTECHNOLOGY RESEARCH AND DEVELOPMENT PATHWAY

This pathway provides an understanding of human medicine through topics such as physiology, genetics, microbiology and public health. Courses will provide an introduction to teamwork and communication practices, organizational, critical-thinking and problem-solving skills. Areas of instruction include an understanding of the processes, structures and interactions of the human body, as well as the prevention, diagnosis and treatment of disease.

PATHWAY COURSES

Introduction to Healthcare Science
Essentials of Biotechnology
Applications of Biotechnology

CAREER CHOICES

Analytical Chemist
Biological or Medical Illustrator
Crime Lab Technician
Field Biologist or Ecologist
Forensic Service Technician
Laboratory Technician
Licensed Practical Nurse
Medical Writer
Mortician
Nutritionist
Pediatric Nurse
Radiology Technician
Surgical Technician

INDUSTRY CREDENTIAL (Credential of Value): Biotechnology

Healthcare- Phlebotomy



HEALTHCARE - PHLEBOTOMY PATHWAY

A phlebotomist draws blood for testing, verifies the patient's identity, and enters patient information into a database. Persons going into phlebotomy must be comfortable with blood, needles, and test tubes. Work location typically is a hospital, lab, or blood bank setting.

PATHWAY COURSES

Introduction to Healthcare Science
Essentials of Healthcare
Diagnostics Phlebotomy

CAREER CHOICES

Cardiovascular Technician
Information Nurse Specialist
Medical Lab Assistant
Nuclear Technician
Patient Service Technician (PST)
Phlebotomist
Phlebotomy Supervisor
Phlebotomy Technician
Physician
Radiologic Technologist
Registered Nurse
Respiratory Technician

INDUSTRY CREDENTIAL (Credential of Value): Certified Phlebotomy Technician

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Healthcare- Sports Medicine



HEALTHCARE - SPORTS MEDICINE PATHWAY

Sports Medicine is a branch of Health Science devoted to musculoskeletal disorders that alter the functional ability of the patient. Careers in this industry focus on improvement of ability to perform life tasks through the combined use of physical training (exercise, movement, and modification of activities), medications, adaptive equipment, orthotics (braces), and prosthesis devices. Careers in rehabilitation focus on helping people return to independence and self-reliance.

PATHWAY COURSES

Introduction to Healthcare Science
Essentials of Healthcare
Sports Medicine

CAREER CHOICES

Athletic Trainer
Chiropractor
Massage Therapist
Occupational Therapist
Orthopedic Physician
Osteopathic Physician
Physical Therapy Assistant
Physician's Assistant
Podiatric Physician
Radiologist
Sports Medicine Physician

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

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

Marketing Communications and Promotions



MARKETING COMMUNICATIONS AND PROMOTIONS

PATHWAY Marketing jobs are found in almost every industry, and the number of jobs available is expected to increase faster than average. College graduates with related experience, a high level of creativity and strong communication skills will have the best job opportunities. Technology is changing the way we communicate and promote goods and services with potential customers.

PATHWAY COURSES

Marketing Principles
Promotional and Digital Marketing
Integrated Marketing Communications

CAREER CHOICES

Advertising and Promotions Manager
Brand Ambassador
Green Marketer
Market Research Analyst
Marketing Manager
Marketing Strategist
Public Relations Specialist
Sales Manager
Sales Representative

INDUSTRY CREDENTIAL (Credential of Value): Standard Marketing Program of Study

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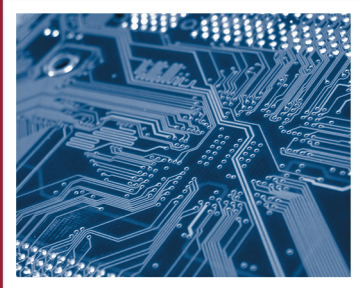
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Programming



PROGRAMMING PATHWAY The Programming pathway gives many opportunities to strengthen problem solving skills, and provides needed skills in all disciplines.

PATHWAY COURSES

Introduction to Software Technology
Computer Science Principles or AP CS Principles
Programming, Apps, Games and Society

CAREER CHOICES

Actuary
Computer Programmer
Computer Scientist
Computer Systems Analyst
Computer Software Engineer
Database Administrator
Game Artist
Mathematician
Software Developer

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Information Technology (IT) Specialist - Software Development

Sports and Entertainment Marketing



SPORTS AND ENTERTAINMENT MARKETING PATHWAY Students in this pathway will apply their knowledge and skills to this industry in order to master the industry's terminology, market arenas and venues, obtain sponsorships, maintain solid media relations, coordinate and manage campaigns and events, etc. This pathway culminates with an opportunity for students to take the MBA Research "A*S*K Marketing Concepts" end of pathway assessment or the NOCTI "Marketing Education Manager Trainee" end of pathway assessment.

PATHWAY COURSES

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

CAREER CHOICES

Event Coordinator
Market Researcher
Promoter
Public Relations Professional
Salesperson
Social Media Manager
Sports Agent
Sports Manager
Sports Marketing Professional
Sports Writer

INDUSTRY CREDENTIAL (Credential of Value): Standard Marketing Program of Study

Sports Nutrition



SPORTS NUTRITION MARKETING PATHWAY Sports nutrition is an increasing interest and a better understanding of how both nutrition and exercise impact health, wellness, and human performance. The industry is evolving towards personalized nutrition, utilizing data analytics, genetic testing, and wearable technology to tailor dietary advice. Demand is increasing in both elite sports and general health sectors due to rising awareness of nutrition's role in preventing health conditions.

PATHWAY COURSES

Food for Life
Food, Nutrition, and Wellness
Sports Nutrition

CAREER CHOICES

Collegiate Team Sports Nutritionist
Corporate Wellness Coach or Director
Director of Sports Medicine
Esports Nutritionist
Performance Nutrition
Product Development Scientist
Professional Team Sports Nutritionist
Registered Dietitian Nutritionist (RDN)
Sports Nutritionist/Coach
Tactical Athlete Specialist

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

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