

CTAE PATHWAY GUIDE

SOUTH FORSYTH HIGH SCHOOL

585 Peachtree Pkwy, Cumming, GA 30041 | www.forsyth.k12.ga.us/sfhs



Advanced Accounting



ADVANCED ACCOUNTING PATHWAY The Financial Management Services pathway courses are designed to provide students with knowledge that can be applied in secondary education, the work place, and in their personal lives. During times of financial crisis it is imperative that students learn the importance of sound financial decision-making.

PATHWAY COURSES

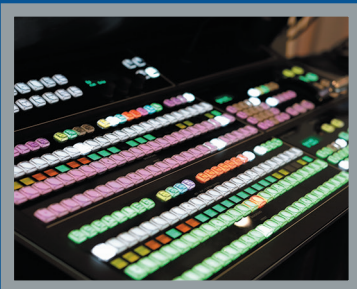
Introduction to Business and Technology
Principles of Accounting I
Principles of Accounting II

CAREER CHOICES

Bank Teller and Manager
Chief Financial Officer
Controller
Corporate Finance Professional
Credit Analyst
Financial Counselor
Financial Manager
Insurance Agent and Broker
Investment Banker
Loan Officer
Personal Financial Advisor

INDUSTRY CREDENTIAL (Credential of Value): Accounting - Advanced

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

Baking and Pastry



BAKING AND PASTRY PATHWAY Students will complete a variety of skills required by industry such as baking terminology, the proper use of tools and equipment, formula conversions, and the functions of various ingredients. Through hands-on baking experiences, students will gain practical knowledge while utilizing technology and industry-standard equipment to stay aligned with current practices in the field.

PATHWAY COURSES

Introduction to Culinary Arts
Baking and Pastry I
Baking and Pastry II

CAREER CHOICES

Baker
Bakery Consultant
Bakery Production Manager
Cake Decorator
Entrepreneur
Food Truck Owner
Merchandiser
Pastry Blogger
Pastry Chef
Pastry Sous Chef

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Culinary Arts Cook Level II

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

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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

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

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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

Entrepreneurship



ENTREPRENEURSHIP PATHWAY Entrepreneurs, innovators, and small businesses play a key role in Georgia's economy. Business professionals may be managers, owners, accountants, economists, administrators, or analysts. These individuals must possess excellent communication skills and be able to establish working relationships with many different people.

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 Specialist
- Cost Estimator
- Database Administrator
- Financial Analyst or Manager
- Network and Computer Analyst
- Paralegal and Legal Assistant
- Personal Financial Advisor
- Training and Development Manager

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: General Management

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Fashion, Merchandising, and Retail Management



FASHION, MERCHANDISING, AND RETAIL MANAGEMENT PATHWAY

This pathway introduces students 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 systems.

PATHWAY COURSES

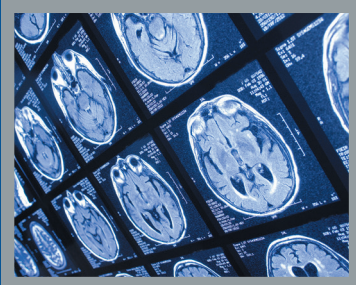
Marketing Principles
Fashion, Merchandising, and Retailing Essentials
Advanced Fashion, Merchandising, and Retailing

CAREER CHOICES

Fashion Merchandiser
Marketing Specialist
Merchandise Manager
Merchandising Assistant
Purchasing Manager
Retail Buyer
Visual Merchandiser

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

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 - Mental Health Professional



HEALTHCARE - MENTAL HEALTH PROFESSIONAL PATHWAY

This pathway offers students foundational knowledge in recognizing, preventing, and treating various mental health and behavioral health disorders. Through a combination of coursework, hands-on learning, and exposure to real-world experiences such as job shadowing, guest speakers, and clinical scenarios, students explore diverse career options in mental health and social work services.

PATHWAY COURSES

Introduction to Healthcare Science
Essentials of Healthcare
Mental Health Professional

CAREER CHOICES

Art or Music Therapist
Behavioral Therapist
Clinical Social Worker
Crisis Intervention Specialist
Family Therapist
Mental Health Counselor
Mental Health Nurse
Psychiatrist
Psychologist
School Counselor

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

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Human Resources Management



HUMAN RESOURCE MANAGEMENT PATHWAY

Students will analyze the primary functions of human resources management which include recruitment, selection, training, development, compensation, and evaluation. The pathway is designed to equip students with operational knowledge of hiring, managing, and terminating employees. Upon mastery of the standards in this pathway, students should be prepared to pass an End of Pathway assessment in this career area.

PATHWAY COURSES

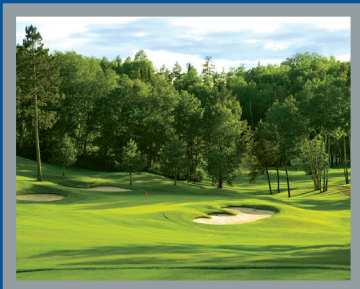
Introduction to Business and Technology
Legal Environment of Business
Human Resources Principles

CAREER CHOICES

Compensation and Benefits Manager
Employee Training Specialist
Human Resources Assistant
Human Resources Manager
Human Resources Specialist
Job Analysis Specialist
Training and Development Manager

INDUSTRY CREDENTIAL (Credential of Value): NOCTI: Human Resource Management

Landscape Management Systems



LANDSCAPE MANAGEMENT SYSTEMS PATHWAY

A career in landscape management offers opportunities in the fields of education, research, golf and sports turf, landscape design, parks and gardens, public service, production management, and sales and marketing. Those who are interested should be able to carry out projects and work independently, have a commitment to quality and customer service, and have an appreciation of our natural environment and have good interpersonal skills.

PATHWAY COURSES

Basic Agriculture Science
General Horticulture and Plant Science
Turf Production and Management

CAREER CHOICES

Agricultural Science Professor
Agriculture Technician
Arborist
Estate Caretaker
Forest Nursery Supervisor
Golf Course Management
Greenhouse Technician
Landscape Architect
Landscape and Nursery Worker
Master Gardener
Natural Resource Manager
Pesticide Handler

INDUSTRY CREDENTIAL (Credential of Value): Landscape Management

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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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

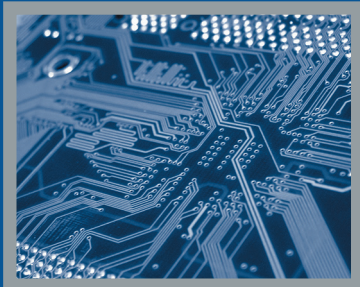
- Marketing Principles
- Marketing and Entrepreneurship
- Marketing Management

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

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

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