



SOUTH FORSYTH HIGH SCHOOL

585 Peachtree Pkwy, Cumming, GA 30041
770-781-2264 | www.forsyth.k12.ga.us/sfhs

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>

CLUSTER	PATHWAY	DETAIL	COURSE 1	COURSE 2	COURSE 3	COURSE 4	CAREER CHOICES	
ADVANCED MANUFACTURING CLUSTER	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. It allows students to develop strategies to enable and direct their own learning.	Foundations of Engineering and Technology	Engineering Concepts	Engineering Applications	Internship Forsyth	• Civil Engineer • Drafter • Electrical Engineer • Industrial Engineer	• Machinist • Manufacturing • Materials/Mechanical Engineer • Quality Control Inspector
AGRICULTURE CLUSTER	Landscape Management Systems Pathway	Landscape management offers opportunities in research, golf and sports turf, landscape design, parks and gardens, public service, production management, and sales and marketing. Those interested should be able to carry out projects and work independently, have a commitment to quality and customer service.	Basic Agriculture Science	General Horticulture and Plant Science	Turf Production and Management	Internship Forsyth	• Arborist • Forest Nursery Supervisor • Golf Course Management • Greenhouse Technician	• Landscape Architect • Landscape and Nursery Worker • Master Gardener • Natural Resource Manager
ARTS, ENTERTAINMENT AND DESIGN CLUSTER	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.	Audio and Video Technology and Film I	Audio and Video Technology and Film II	Audio and Video Technology and Film III	Internship Forsyth	• A/V Equipment Technician • Broadcast News Analyst • Broadcast Technician • Camera Operator	• Control Room Technician • Journalist/Editor/Reporter • Sound Technician • Station Manager
DIGITAL TECHNOLOGY CLUSTER	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.	Introduction to Software Technology	Computer Science Principles or AP Computer Science Principles	AP Computer Science A	Internship Forsyth	• Computer Programmers • Computer Hardware Engineers • Computer Network Architects • Computer System Analysts	• Database Administrators • Information Security Analysts • Software Developers • Software Testers
	Programming Pathway	The Programming pathway gives many opportunities to strengthen problem solving skills, and provides needed skills in all disciplines.	Introduction to Software Technology	Computer Science Principles or AP Computer Science Principles	Programming, Apps, Games and Society	Internship Forsyth	• Actuary • Computer Programmer • Computer Scientist • Computer Systems Analyst	• Computer Software Engineer • Database Administrator • Game Artist • Software Developer
EDUCATION CLUSTER	Education as a Profession Pathway	Educational services is the second largest industry. This includes education institutions from elementary schools to universities. The overall demand for educational services will increase as growing emphasis on improving education along with retirements will create large numbers of job openings.	Education as a Profession I	Education as a Profession II	Education as a Profession Practicum	Internship Forsyth	• Adult Educator • After-School Supervisor • Educational and Teacher Aide • K-12 School Teacher	• Media Specialist • Post-Secondary Vocational • School Administration • Special Education Teacher
FINANCIAL CLUSTER	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.	Introduction to Business and Technology	Principles of Accounting I	Principles of Accounting II	Internship Forsyth	• Bank Teller and Manager • Chief Financial Officer • Controller • Credit Analyst	• Financial Counselor/Manager • Insurance Agent and Broker • Investment Banker • Loan Officer
	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.	Introduction to Business and Technology	Financial Literacy	Principles of Accounting I	Internship Forsyth	• Auditing Clerk • Auditor • Bookkeeper • Budget Analyst	• Certified Public Accountant • Financial Advisor or Analyst • Income Tax Professional • Non-Profit Accountant
HEALTHCARE AND HUMAN SERVICES CLUSTER	Biotechnology Research and Development Pathway	This pathway provides an understanding of topics such as physiology, genetics, microbiology and public health. 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.	Introduction to Healthcare Science	Essentials of Biotechnology	Applications of Biotechnology	Internship Forsyth	• Biological or Medical Illustrator • Crime Lab Technician • Laboratory Technician • Licensed Practical Nurse	• Medical Writer • Mortician • Radiology Technician • Surgical Technician
	Mental Health Professional Pathway	This pathway offers students 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, students explore diverse career options in mental health and social work services.	Introduction to Healthcare Science	Essentials of Healthcare	Mental Health Professional	Internship Forsyth	• Behavioral Therapist • Clinical Social Worker • Crisis Intervention Specialist • Family Therapist	• Mental Health Counselor • Psychiatrist • Psychologist • School Counselor



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HOSPITALITY, EVENTS AND TOURISM CLUSTER	Baking and Pastry Pathway	Students will complete 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.	Introduction to Culinary Arts	Baking and Pastry I	Baking and Pastry II	Internship Forsyth	• Bakery Consultant • Bakery Production Manager • Cake Decorator • Entrepreneur	• Food Truck Owner • Merchandiser • Pastry Blogger • Pastry Chef
	Culinary Arts Pathway	Students learn 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.	Introduction to Culinary Arts	Culinary Arts I	Culinary Arts II	Internship Forsyth	• Caterer • Chef and Head Cook • Food Stylist and Photographer • Food Writer and Critic	• Kitchen Manager • Pastry Chef • Personal Chef • Restaurant Entrepreneur
	Sports and Entertainment Marketing Pathway	Students will master the industry’s terminology, market arenas and venues, obtain sponsorships, maintain solid media relations, coordinate and manage campaigns and events, etc. Students have the opportunity to take the MBA Research "A*S*K Marketing Concepts" or the NOCTI "Marketing Education Manager Trainee".	Marketing Principles	Introduction to Sports and Entertainment Marketing	Advanced Sports and Entertainment Marketing	Internship Forsyth	• Event Coordinator • Market Researcher Promoter • Public Relations Salesperson • Social Media Manager	• Sports Agent • Sports Manager • Sports Marketing Professional • Sports Writer
MANAGEMENT AND ENTREPRENEURSHIP CLUSTER	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.	Introduction to Business and Technology	Legal Environment of Business	Entrepreneurship	Internship Forsyth	• Advertising and Promotion • Business Educator • Chief Executive Officer • Computer Systems Analyst	• Cost Estimator • Database Administrator • Paralegal and Legal Assistant • Personal Financial Advisor
	Human Resources 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.	Introduction to Business and Technology	Legal Environment of Business	Human Resources Principles	Internship Forsyth	• Benefits Manager • Compensation Manager • Employee Training Specialist • Human Resources Assistant	• Human Resources Manager • Human Resources Specialist • Job Analysis Specialist • Training/Development Manager
MARKETING AND SALES CLUSTER	Fashion, Merchandising, and Retail Management Pathway	This pathway focuses on the fundamentals of fashion marketing, key marketing concept, types of businesses involved in the industry, and career opportunities. Students will develop skills areas such as fashion economics, marketing segmentation and target marketing, product selection and buying, and inventory systems.	Marketing Principles	Fashion, Merchandising, and Retailing Essentials	Advanced Fashion, Merchandising, and Retailing	Internship Forsyth	• Fashion Merchandiser • Marketing Specialist • Merchandise Manager • Merchandising Assistant	• Purchasing Manager • Retail Buyer • Visual Merchandiser
	Marketing and Management Pathway	Students develop knowledge and skills of marketing (economics, human relations and business basics) and the functional areas of marketing (product and service planning, management, purchasing and pricing, selling and promotion, risk management, financing and distribution), as well as international marketing, management and entrepreneurship.	Marketing Principles	Marketing and Entrepreneurship	Marketing Management	Internship Forsyth	• Advertising Account Executive • Communications Specialist • Customer Service • Entertainment Marketer	• Insurance Agent • Marketing Specialist • Media Buyer • Public Relations Specialist
	Marketing Communications and Promotions Pathway	Marketing jobs are found in almost every industry. 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.	Marketing Principles	Promotional and Digital Marketing	Integrated Marketing Communications	Internship Forsyth	• Advertising/Promotions • Brand Ambassador • Green Marketer • Market Research Analyst	• Marketing Manager • Marketing Strategist • Public Relations Specialist • Sales Managers/Representative