



FORSYTH CENTRAL HIGH SCHOOL

131 Almon C. Hill Dr, Cumming, GA 30040
770-887-8151 | www.forsyth.k12.ga.us/fchs

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
AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER	Veterinary Science Pathway	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.	Basic Agriculture Science	Animal Science and Biotechnology	Veterinary Science	Internship Forsyth	<ul style="list-style-type: none"> Animal Physical Therapist Animal Welfare/Care Specialist Cell Culture Specialist Companion Animal Breeder Dairy Unit Herdsman/Manager Embryo Transfer Technician Veterinarian Veterinary Tech
ARTS, A/V TECHNOLOGY AND COMMUNICATIONS CLUSTER	A/V Technology and Film Pathway	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.	Audio and Video Technology and Film I	Audio and Video Technology and Film II	Audio and Video Technology and Film III	Internship Forsyth	<ul style="list-style-type: none"> A/V Equipment Technician Broadcast News Analyst Broadcast Technician Camera Operator Control Room Technician Journalist/Editor/Reporter Sound Technician Station Manager
	Film Production Pathway	Prepares students with technical skill and employment needs for an entry level film production worker. Students participate in multiple class-created film production team simulations and film projects to develop a professional film portfolio. Portfolio may include documents, projects, documented work activities in various simulated film production departments and film clips.	Audio and Video Technology and Film	Introduction to Film Production	Film Production Applications	Internship Forsyth	<ul style="list-style-type: none"> Audio/Video Equipment Tech Camera Operator Director of Photography Grip Lighting Technician Script Supervisor Set and Exhibit Designer Sound Engineering Technician
EDUCATION AND TRAINING CLUSTER	Teaching as a Profession Pathway	Students will learn to plan, manage, and provide education and training in student learning environments. Students will also learn about administrative roles, teacher training, administrative support, and professional learning services for educators. Through this pathway, students will also be engaged in observations, interactions, and analysis of critical and contemporary educational issues.	Examining the Teaching Profession	Contemporary Issues in Education	Teaching as a Profession Practicum	Internship Forsyth	<ul style="list-style-type: none"> Adult Educator After-School Program Supervisor Educational and Teacher Aide K-12 School Teacher Media Specialist Post-Secondary Vocational School Administration Special Education Teacher
HEALTH SCIENCE CLUSTER	Biotechnology Pathway	Students will gain a broad understanding of the fundamentals of biotechnology and the impact on society. The knowledge and skills in this pathway provide a basic overview of current trends and careers in biotechnology, with an emphasis on basic laboratory skills, along with the business, regulatory, and ethical aspects of biotechnology.	Introduction to Healthcare Science	Essentials of Biotechnology	Applications of Biotechnology	Internship Forsyth	<ul style="list-style-type: none"> Biological or Medical Illustrator Crime Lab Technician Emergency Medical Technician Laboratory Technician Licensed Practical Nurse Medical Writer Mortician Pediatric Nurse
HOSPITALITY AND TOURISM CLUSTER	Sports and Entertainment Marketing Pathway	Students will learn about the major segments of the sports and entertainment industry and the social and economic impact the industry has on 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.	Marketing Principles	Introduction to Sports and Entertainment Marketing	Advanced Sports and Entertainment Marketing	Internship Forsyth	<ul style="list-style-type: none"> Agent Communications Specialist Customer Service Representative Entrepreneur Market Research Analyst Marketing Specialist Media Buyer Public Relations Specialist
HUMAN SERVICES CLUSTER	Cosmetology Pathway	Students will learn both fundamental theory and practices of the personal care professions. Emphasis will be placed on professional practices and safety. Students will master shampooing, permanent waving, haircutting, basic skin care, and make-up application while maintaining safety and sanitation in the workplace set forth by OSHA standards.	Introduction to Personal Care Services	Cosmetology Services II	Cosmetology Services III	Internship Forsyth	<ul style="list-style-type: none"> Barber Stylist Color Specialist Chemist Cosmetologist Make-up Artist Nail Technician Salon Owner Shampoo Tech Wig Stylist
	Nutrition and Food Science Pathway	Students will focus on healthy food and lifestyle choices and will investigate the interrelationship of food, nutrition and wellness to promote good health. Students will evaluate the effects of processing, preparation, and storage on the quality, safety, wholesomeness, and nutritive value of foods.	Food, Nutrition, and Wellness	Food for Life	Food Science	Internship Forsyth	<ul style="list-style-type: none"> Food Scientist and Technologist Food Services Manager Geriatric Food Designer Health Educator Chef and Head Cook Dietician/Nutritionist Food Inspector
INFORMATION TECHNOLOGY CLUSTER	Cloud Computing Pathway	Students will develop an overall understanding of cloud computing, cloud concepts, core services, security, architecture, and support. Technical content includes designing, developing, and deploying a virtual private network, creating a cloud environment that is scalable, and demonstrating safe use of big data.	Introduction to Software Technology	Computer Science Principles or AP CS Principles	Cloud Computing	Internship Forsyth	<ul style="list-style-type: none"> Software Engineer Cloud Engineer Data Engineer System Engineer Full Stack Developer Java Developer Systems Administrator .NET Developer
	Computer Science Pathway	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.	Introduction to Software Technology	Computer Science Principles or AP CS Principles	AP Computer Science A	Internship Forsyth	<ul style="list-style-type: none"> Computer Hardware Engineer Computer Programmer Computer System Analyst Database Administrator Information Systems Manager Network Administrator Software Developers/Engineer Video Game Designer
MARKETING CLUSTER	Marketing and Management Pathway	Students will focus on developing skills in 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.	Marketing Principles	Marketing and Entrepreneurship	Marketing Management	Internship Forsyth	<ul style="list-style-type: none"> Advertising Account Executive Communications Specialist Customer Service Representative Entertainment Marketer Insurance Agent Marketing Specialist Media Buyer Public Relations Specialist
	Marketing Communications & Promotions Pathway	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.	Marketing Principles	Promotional and Digital Marketing	Integrated Marketing Communications	Internship Forsyth	<ul style="list-style-type: none"> Advertising/Promotions Manager Advertising Sales Agent Green Marketer Market Research Analyst Marketing Manager Marketing Strategist Public Relations Specialist Sales Managers/Representative
TRANSPORTATION DISTRIBUTION AND LOGISTICS CLUSTER	Automotive Technology Pathway	Students will be exposed to courses in automotive preventative maintenance, brakes, steering and suspension, electrical systems, engine repair, engine performance, automatic transmission, manual transmission and differential & automotive HVAC. The hours completed in this course are aligned with ASE standards and are a base for the entry-level technician.	General Automotive Technology 1, 2 and 3	Advanced Automotive Technology 4, 5 and 6	Automotive Service Technology Internship 1, 2 and 3	Internship Forsyth	<ul style="list-style-type: none"> Auto Manufacturer Sales or Service Auto or Body Technician Automotive Engineer/Mechanist Dealership or Shop Owner Parts Professional Quality Control Technician Service Advisor Technician (ASE Certified)
STEM CLUSTER	Engineering and Technology Pathway	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.	Foundations of Engineering and Technology	Engineering Concepts	Engineering Applications	Internship Forsyth	<ul style="list-style-type: none"> Civil Engineer Drafter Electrical Engineer Industrial Engineer Machinist Manufacturing Materials/Mechanical Engineer Quality Control Inspector
WORK READY	Workforce Ready Pathway	Provides students with exposure to all aspects of workplace readiness and employability skills development through integration of course content into hands-on class activities as applications of the concepts. Also included is project-based learning, frequent interaction with business and industry; community as subject matter experts, virtual industry tours, job shadowing, internships and jobs.	Introduction to Career Competencies	Career Competencies	Advanced Career Competencies	Internship Forsyth	All Careers