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**

CLOSTER	FAIIIWAI	DETAIL	COOKSET	COUNSE 2	COUNSES	COOKSLT	CARLLICITOTELS	
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	Animal Physical TherapistAnimal Welfare/Care SpecialistCell Culture SpecialistCompanion Animal Breeder	Dairy Unit Herdsman/ManagerEmbryo Transfer TechnicianVeterinarianVeterinary 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	A/V Equipment TechnicianBroadcast News AnalystBroadcast TechnicianCamera Operator	Control Room TechnicianJournalist/Editor/ReporterSound TechnicianStation 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	Audio/Video Equipment TechCamera OperatorDirector of PhotographyGrip	Lighting TechnicianScript SupervisorSet and Exhibit DesignerSound Engineering Technician
EDUCATION AND TRAINING CLUSTER	Education 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.	Education as a Profession I	Education as a Profession II	Education as a Profession Practicum	Internship Forsyth	Adult EducatorAfter-School Program SupervisorEducational and Teacher AideK-12 School Teacher	Media SpecialistPost-Secondary VocationalSchool AdministrationSpecial Education Teacher
HEALTH SCIENCE CLUSTER	Biotechnology Research and Development 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	Biological or Medical Illustrator Crime Lab Technician Emergency Medical Technician Laboratory Technician	Licensed Practical NurseMedical WriterMorticianPediatric 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	AgentCommunications SpecialistCustomer Service RepresentativeEntrepreneur	Market Research AnalystMarketing SpecialistMedia BuyerPublic 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	Barber StylistColor Specialist ChemistCosmetologistMake-up Artist	Nail TechnicianSalon OwnerShampoo TechWig 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	Food Scientist and TechnologistFood Services ManagerGeriatric Food DesignerHealth Educator	Chef and Head CookDietician/NutritionistFood 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 Computer Science Principles	Cloud Computing	Internship Forsyth	Software EngineerCloud EngineerData EngineerSystem Engineer	Full Stack DeveloperJava DeveloperSystems 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 Computer Science Principles	AP Computer Science A	Internship Forsyth	Computer Hardware EngineerComputer ProgrammerComputer System AnalystDatabase Administrator	Information Systems ManagerNetwork AdministratorSoftware Developers/EngineerVideo 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	Advertising Account ExecutiveCommunications SpecialistCustomer Service RepresentativeEntertainment Marketer	Insurance AgentMarketing SpecialistMedia BuyerPublic Relations Specialist
	Marketing Communications and 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	Advertising/Promotions ManagerAdvertising Sales AgentGreen MarketerMarket Research Analyst	Marketing ManagerMarketing StrategistPublic Relations SpecialistSales 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	 Auto Manufacturer Sales or Service Auto or Body Technician Automotive Engineer/Mechanist Dealership or Shop Owner 	Parts ProfessionalQuality Control TechnicianService AdvisorTechnician (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	Civil Engineer Drafter Electrical Engineer Industrial Engineer	Machinist Manufacturing Materials/Mechanical Engineer Quality Control Inspector