



NORTH FORSYTH HIGH SCHOOL

3635 Coal Mountain Dr, Cumming, GA 30028
770-781-6637 | www.forsyth.k12.ga.us/nfhs

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	Veterinary Science Pathway	This pathway covers the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. Courses allow students entering the workforce after graduating high school to develop entry-level skills to become employed and to continue their education on the job.	Basic Agriculture Science	Animal Science and Biotechnology	Veterinary Science	Internship Forsyth	• Animal Physical Therapist • Animal Welfare Specialist • Cell Culture Specialist • Companion Animal Breeder	• Dairy Unit Herdsman/Manager • Embryo Transfer Technician • Veterinarian • Veterinary Technician
ARTS, ENTERTAINMENT AND DESIGN CLUSTER	Film Production Pathway	The pathway will prepare students to participate in multiple class-created film production team simulations and film projects to develop a professional film portfolio. Topics covered may include terminology, safety on a set, production teams, equipment, script writing, production, editing, post-production, and professional ethics.	Audio and Video Technology and Film	Introduction to Film Production	Film Production Applications	Internship Forsyth	• Broadcast Technician • Camera Operators • Grip • Lighting Technician	• Photographer • Reporter • Script Supervisor • Set and Exhibit Designer
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
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
HEALTHCARE AND HUMAN SERVICES CLUSTER	Nutrition and Food Science Pathway	Employment in this field is expected to grow faster as a result of the increasing emphasis on disease prevention through improved dietary habits. A growing and aging population will increase the demand for meals and nutritional counseling agencies in hospitals, residential care facilities, schools, prisons, community health programs, and home health care.	Food, Nutrition, and Wellness	Food for Life	Food Science	Internship Forsyth	• Chef and Head Cook • Dietitian/Nutritionist • Food Inspector • Food Services Manager	• Geriatric Food Designer • Health Educator • Health Inspector • Nutritionist
	Public Health Pathway	Students will be exposed to human growth and development, patient and family health, medical terminology, wellness, and preventative care. Students will also learn about the physiology of each body system, understanding of common diseases, disorders and emerging diseases, and the pathophysiology of diseases and disorders.	Introduction to Healthcare Science	Essentials of Healthcare	Applications of Public Health	Internship Forsyth	• Community Health Worker • Emergency Management • Environmentalist • Epidemiologist	• Health Educator • Nursing • Physician • Public Health Worker
	Sports Medicine Pathway	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.	Introduction to Healthcare Science	Essentials of Healthcare	Sports Medicine	Internship Forsyth	• Athletic Trainer • Chiropractor • Massage Therapist • Occupational Therapist	• Orthopedic Physician • Physical Therapy Assistant • Podiatric Physician • Radiologist
MARKETING AND SALES CLUSTER	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
PUBLIC SAFETY AND SERVICE CLUSTER	JROTC Marines Pathway	The basics of leadership, citizenship, personal growth, appearance and responsibility, general Marine Corps knowledge, drill, and physical training. Courses provide elevated instruction the basics of leadership, citizenship, personal growth, appearance and responsibility, and additional instruction and practical application general military subjects.	MCJROTC Leadership Education I/II	MCJROTC Leadership Education III/IV	MCJROTC Leadership Education V/VI	MCJROTC Leadership Education VII/VIII	• Air Traffic Controller • Aviation Ordinance • Criminal Investigation • Flight Crew	• Intelligence • Military Police • Naval Aviation (Pilot) • Transportation Management