

A photograph showing four professionals in an office setting, focused on a computer monitor displaying architectural blueprints. One man in the foreground is pointing at the screen, while others look on. They are holding coffee cups of various colors (green, white, blue, red). The scene conveys a collaborative work environment.

FORSYTH COUNTY SCHOOLS CAREER, TECHNICAL, AND AGRICULTURAL EDUCATION

A Guide for Business and Industry Involvement

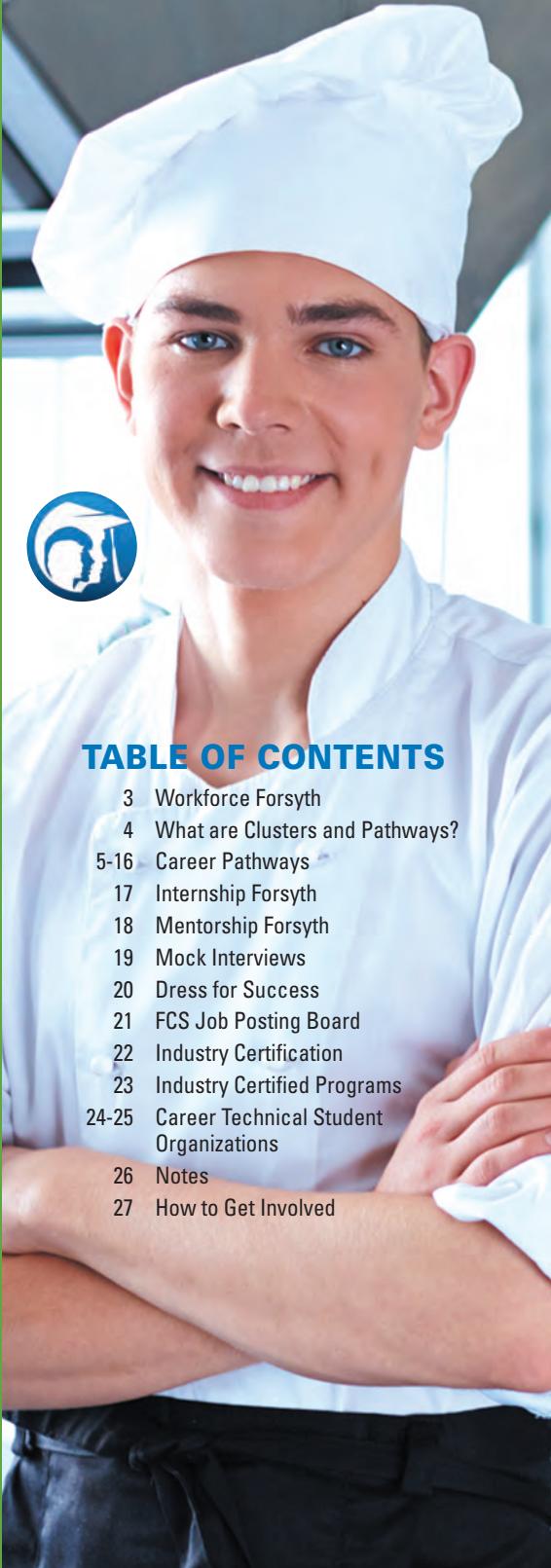


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FORSYTH COUNTY SCHOOLS CAREER, TECHNICAL, AND AGRICULTURAL EDUCATION

A Guide for Business and Industry Involvement

FCS Career Development efforts seek to provide an on-going partnership between education and business/industry to prepare the students of our community with the skills necessary to meet world-class standards, successfully continue life-long learning, and enter the marketplace as productive citizens. A large part of that is industry involvement to ensure our middle and high school career pathways properly connect instructional practices to industry standards in labs featuring the latest technology and equipment replicating simulated work environments.

Career pathways provide seamless instruction in career and technical education that connects academic and technical skills to future educational and career opportunities. Successful completion of a career pathway also allows students to earn industry credentialing required in today's job market and other benefits such as:

- *blending rigorous academic/technical preparation*
- *discovering their interests and passions*
- *utilizing career development services*
- *experiencing all aspects of a business or industry*
- *planning for transitions into post-secondary opportunities*

Because a collaborative cannot happen alone, we need your help! Our strategic direction, Workforce Forsyth, guides the district in continuing to develop Georgia's most comprehensive and innovative roadmap for developing and retaining a talented workforce. Our business community and learning organizations have actively come together to provide a seamless connection from secondary to post-secondary which supports our current workforce needs! Please consider how your organization can partner with Forsyth County Schools!



For additional information or if your organization is interested in getting involved, contact:

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WORKFORCE FORSYTH

FORSYTH COUNTY SCHOOLS (FCS), in partnership with the Cumming-Forsyth County Chamber of Commerce, Lanier Technical College, and the University of North Georgia, launched Workforce Forsyth, a community initiative focused on developing strategies to support Career, Technical, and Agricultural Education (CTAE) in the district. Key next steps for the partnership focused on aligning career education efforts, guiding pathway creation, expanding classroom participation, and enriching curricula.

This effort builds on the initial Workforce Forsyth plan and has led to the creation of this roadmap to guide CTAE programming within the school district over the next several years. This plan presents priorities to guide investments in and strategies for workforce development.

THE PROCESS

This inclusive planning process involved key business, community, and education stakeholders. Over 70 steering committee member from across Forsyth County provided unique perspectives on FCS CTAE.

The development of this three-year Workforce Forsyth 2.0 plan began with a needs assessment designed to allow business partners, students, school leaders, and CTAE teachers to discuss their perspectives on the current state of FCS CTAE. These groups provided input relating to current programming, skills gaps, skills needs, and opportunities for growth.



Workforce Forsyth 2.0 Priorities

	Short-Term Strategies	Long-Term Strategies
Priority 1 Marketing & Outreach Plan	Engage with current and potential stakeholders Host a stakeholder showcase	Vertical Alignment between elementary, middle, and high school
Priority 2 Build & Evaluate a Soft Skills Program	Establish a district-wide Soft Skills Committee Explore introducing soft-skills in earlier grades	Evaluate programs to ensure they are meeting student needs and industry needs
Priority 3 Build Leadership Capacity for All Students	Engage more students in CTSOs Redefine the role of the counseling staff	Each school in the district should be offering at least one leadership development program
Priority 4 Grow Partnerships	Update and evaluate existing business partnerships Leverage business partnerships to increase teacher externship opportunities	Develop deeper relationships with business partners





WHAT ARE CLUSTERS AND PATHWAYS?

GEORGIA'S CAREER CLUSTERS allow students to choose an area of interest in high school from the 17 clusters. Students take classes tailored to their cluster, which helps them navigate their way to greater success – no matter what they choose to do after high school graduation. Each cluster will include multiple career pathways. The aim of the program is to show students the relevance of what they're learning in the classroom, whether they want to attend a two-year college, a four-year university or go straight into the world of work. Students will begin to learn about potential careers in elementary and middle school so that they are ready to choose a pathway once they reach high school. Georgia's initiative is based on the National Career Cluster Model.

CAREER PATHWAYS are state-approved career enhancement programs defined as a coherent, articulated sequence of rigorous academic and career-related courses starting in the ninth grade and leading to an associate degree, and/or an industry-recognized certificate or licensure, and/or a baccalaureate degree and beyond.

CAREER, TECHNICAL, AND AGRICULTURAL EDUCATION (CTAE): provides students with the opportunity to select at least three sequenced courses in a career pathway.

CTAE CONCENTRATOR: A concentrator is defined as a student who takes at least three CTAE courses in a specific program area during their high school career.

PATHWAY COMPLETER: A pathway completer is a concentrator who completes the requirements for the Georgia Milestones Assessment System and also completes the requirements for CTAE pathway concentrators.

Selection of a pathway is based on self-awareness and the investigation of occupations plus related educational levels aligned with the pathway. Most high-demand, high-skilled, high-wage occupations in all concentrations still require education beyond high school.

Implementation of career pathways is a collaborative effort between the Forsyth County School District, the Georgia Department of Education, the Technical College System of Georgia and the University System of Georgia.

AGRICULTURE, FOOD AND NATURAL RESOURCES CLUSTER

AGRICULTURE LEADERSHIP IN ANIMAL PRODUCTION PATHWAY

Introduces students to the scientific principles that underlie the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products.

Top Career Choices

- Agricultural Inspectors
- Animal Scientists
- Animal Husbandry and Animal Care Workers

Courses of Study

- Basic Agriculture Science
- Animal Science Technology and Biotechnology
- Agribusiness Management and Leadership

Offered At

- North Forsyth High School

AGRICULTURE LEADERSHIP IN HORTICULTURE PATHWAY

Preparing for education, research, golf and sports turf, landscape design, parks and gardens, public service, management, and sales and marketing.

Top Career Choices

- Interior-Scape Designers
- Landscape Designers
- Garden Center Owner/Operator
- Golf Course Manager/Athletic Field Manager

Courses of Study

- Basic Agriculture Science and Technologies
- General Horticulture and Plant Science
- Agribusiness Management and Leadership

Offered At

- North Forsyth High School

COMPANION ANIMAL SYSTEMS PATHWAY

Caring for the well-being of animals by performing routine tasks under the supervision of veterinarians, and veterinary technologists and technicians.

Top Career Choices

- Nonfarm Animal Caretakers
- Veterinarians
- Veterinary Assistants

Courses of Study

- Basic Agriculture Science
- Animal Science and Biotechnology
- Small Animal Care

Offered At

- Denmark High School

ENVIRONMENTAL AGRICULTURE SYSTEMS PATHWAY

Environmental engineers research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines.

Top Career Choices

- Agricultural Science Professor
- Conservation Scientist
- Farmers/Ranchers/Agricultural Managers

Courses of Study

- Basic Agriculture Science
- Environmental Science and Stewardship
- Sustainable Agriculture

Offered At

- North Forsyth High School

LANDSCAPE MANAGEMENT SYSTEMS PATHWAY

Environmental engineers research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines.

Top Career Choices

- Arborist
- Forest Nursery Supervisor
- Golf Course Management

Courses of Study

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

Offered At

- South Forsyth High School

VETERINARY SCIENCE PATHWAY

Covers the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care.

Top Career Choices

- Animal Physical Therapist
- Veterinarian
- Veterinary Tech

Courses of Study

- Basic Agricultural Science
- Animal Science and Biotechnology

Offered At

- Denmark High School
- Forsyth Central High School



Focuses on careers with common knowledge and skills related to production, processing, marketing, financing, distribution, and development of agricultural commodities and resources. These commodities include food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.



Careers with common knowledge and skills related to designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS CLUSTER

AUDIO/VIDEO TECHNOLOGY AND FILM PATHWAY

Teaches all aspects of video production from pre-production, production, and post-production, including theory and practical application.

Top Career Choices

Audio and Video Equipment Technician
Broadcast News Analyst
Broadcast Technician
Radio and Television Announcer

Courses of Study

Audio and Video Technology and Film - 3 courses

Offered At

Forsyth Central High School
Lambert High School
North Forsyth High School
South Forsyth High School
West Forsyth High School

ANIMATION AND DIGITAL MEDIA PATHWAY

Students will gain knowledge in animation history, basic modeling, and fundamentals of motion while working to incorporate effective sound and lighting techniques, as well as 3-D space morphing into their animated projects.

Top Career Choices

Camera Operators
Multimedia Artist and Animators
Forensic Animator
Storyboard Artist
3D Medical Animator

Courses of Study

Introduction to Graphics and Design
Principles and Concepts of Animation
Advanced Animation, Game, and App Design

Offered At

North Forsyth High School

GRAPHIC DESIGN PATHWAY

Introducing graphic design principals while exploring the techniques of creative problem solving. Graphic Design and Production explores the various printing techniques including screen-printing and offset printing.

Top Career Choices

Art Director
Commercial and Industrial Designers
Creative Designer
Graphic Designer

Courses of Study

Introduction to Graphics and Design
Graphic Design and Production
Advanced Graphic Design

Offered At

Alliance Academy of Innovation



FINANCE CLUSTER

ADVANCED ACCOUNTING PATHWAY

During times of financial crisis it is imperative that students learn the importance of sound financial decision-making.

Top Career Choices

Brokerage Clerk
Brokerage Clerk
Real Estate Sales Agent

Courses of Study

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

Offered At

Lambert High School

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.

Top Career Choices

Accountants and Auditors
Bookkeeping/Accounting/Auditing Clerks
Tax Examiner, Collector and Revenue Agent

Courses of Study

Introduction to Business and Technology
Financial Literacy
Principles of Accounting II

Offered At

Forsyth Virtual Academy
Lambert High School
South Forsyth High School

FINANCIAL SERVICES PATHWAY

Students explore the major functions of bank employees by completing a flow-of-work simulation. Students formulate business and individual investment decisions by comparing and contrasting a variety of investment options.

Top Career Choices

Auditor
Insurance Sales Agent
Claims Adjuster

Courses of Study

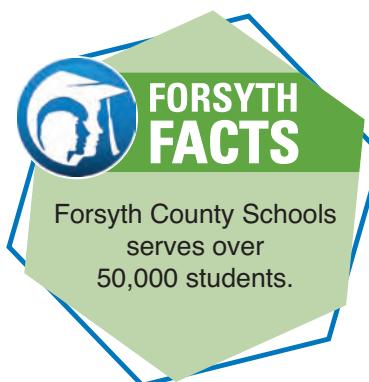
Introduction to Business and Technology
Financial Literacy
Banking, Investing and Insurance

Offered At

Denmark High School
Forsyth Virtual Academy
Lambert High School
South Forsyth High School



Careers with common knowledge and skills related to money management, including planning, investing, and spending. Students will gain career development skills for the finance world with opportunities that expand beyond basic business skills into financial literacy, banking, investing, insurance, and risk management.





Careers with common knowledge and skills related to the preparation of students with computer skills for future college and career plans. Cluster skills mastered include planning, organizing, directing, and evaluating as well as owning and operating a successful business.

BUSINESS MANAGEMENT AND ADMINISTRATION CLUSTER

ENTREPRENEURSHIP PATHWAY

Entrepreneurs, innovators, and small businesses play a key role in Georgia's economy.

Top Career Choices

Advertising and Promotion Manager
Chief Executive
Social and Community Service Manager
Training and Development Manager

Courses of Study

Introduction to Business and Technology
Legal Environment of Business
Entrepreneurship

Offered At

Denmark High School
Forsyth Academy
Lambert High School
South Forsyth High School

HUMAN RESOURCES MANAGEMENT PATHWAY

This pathway is designed to equip students with operational knowledge of hiring, managing, and terminating employees.

Top Career Choices

Human Resources Managers
Compensation and Benefits Manager
Human Resources Manager
Job Analysis Specialist
Training and Development Manager

Courses of Study

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

Offered At

Forsyth Academy
South Forsyth High School

GOVERNMENT AND PUBLIC ADMINISTRATION CLUSTER

JROTC MARINES PATHWAY

JROTC is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation.

Top Career Choices

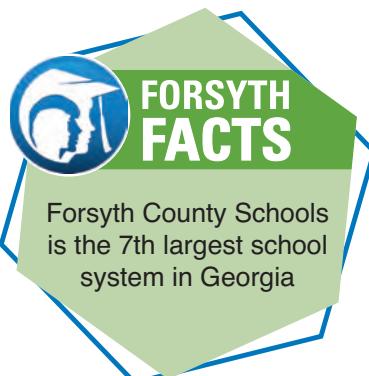
Flight Crew
Military Police
Missile Fire Control Operator

Courses of Study

MCJROTC Leadership Education I/II
MCJROTC Leadership Education III/IV
MCJROTC Leadership Education V/VI
MCJROTC Leadership Education VII/VIII

Offered At

North Forsyth High School



Forsyth County Schools
is the 7th largest school
system in Georgia



Careers with common knowledge and skills related to planning and performing of government management and administrative functions at local, state, and federal levels. Careers are available in national security, foreign service, revenue, and regulations.

MARKETING CLUSTER

FASHION, MERCHANDISING AND RETAIL MANAGEMENT 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.

Top Career Choices

Advertising and Promotions Manager
Wholesale and Retail Buyers
Online Merchants

Courses of Study

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

Offered At

Denmark High School
Lambert High School
South Forsyth High School
West Forsyth High School

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.

Top Career Choices

Chief Executive
Marketing Manager
Personal Financial Advisor

Courses of Study

Marketing Principles
Marketing and Entrepreneurship
Marketing Management

Offered At

Denmark High School
Forsyth Academy
Forsyth Central High School
Forsyth Virtual Academy
Lambert High School
North Forsyth High School
South Forsyth High School
West Forsyth High School

MARKETING COMMUNICATIONS AND PROMOTIONS PATHWAY

Students explore opportunities available in this field include advertising managers, account executives, creative directors, media directors, promotions managers, marketing managers, product development managers, market research managers, public relations managers and sales managers.

Top Career Choices

Advertising and Promotions Manager
Public Relations Specialists
Market Research Analysts

Courses of Study

Marketing Principles
Promotion and Professional Sales
Marketing Communications Essentials

Offered At

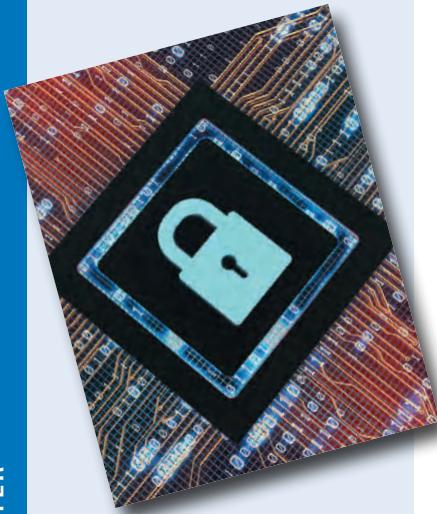
Forsyth Central High School
South Forsyth High School



Careers with common knowledge and skills related to the process of anticipating, managing, and satisfying consumers' demand for products, services, and ideas. The Marketing career cluster generates the strategy that underlies advertising and promotional techniques, business communication, and business development.

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Careers with common knowledge and skills related to the preparation for careers that create, use, modify, and engage technology skills. Graphics, multimedia animation, web design, game and application development, networking, and computer repair are all possibilities.

INFORMATION TECHNOLOGY CLUSTER

COMPUTER SCIENCE PATHWAY

Students solve complex problems in computing for business, medicine, science, and other fields.

Top Career Choices

Computer Programmers
Computer System Analysts
Software Developers, Application

Courses of Study

Introduction to Digital Technology
Computer Science Principles
AP Computer Science

Offered At

Alliance Academy for Innovation
Denmark High School
Forsyth Central High School
Forsyth Virtual Academy
Lambert High School
North Forsyth High School
South Forsyth High School
West Forsyth High School

CYBERSECURITY PATHWAY

Exams best practices related to the management of security, ethics, trust, internal/external threats, cryptography, and wireless technologies.

Top Career Choices

Computer and Information Systems Managers
Computer Support Specialists
Network and Computer System Administrators

Courses of Study

Introduction to Digital Technology
Introduction to Cybersecurity
Advanced Cybersecurity

Offered At

Alliance Academy for Innovation

GAMING DESIGN PATHWAY

Students gain an understanding of the fundamental principles used during the game creation process.

Top Career Choices

Computer Game Designer
Multimedia Artists and Animators
Computer and Information Systems Managers

Courses of Study

Introduction to Digital Technology
Computer Science Principles
Game Design: Animation and Simulation

Offered At

Alliance Academy for Innovation
Forsyth Virtual Academy

INTERNET OF THINGS PATHWAY

The impact of computing on the world engages creativity, demonstrate and build problem solving all while connecting the relevance of computer science.

Top Career Choices

Web Developer
Information Architect
Software Developer

Courses of Study

Introduction to Digital Technology
Computer Science
Embedded Computing

Offered At

North Forsyth High School

PROGRAMMING PATHWAY

Offers opportunities to strengthen problem solving skills, and provides needed skills in all disciplines.

Top Career Choices

Computer Programmers
Computer Software Engineers
Computing and Information Systems Managers

Courses of Study

Introduction to Digital Technology
Computer Science Principles
Programming, Apps, Games and Society

Offered At

Lambert High School
South Forsyth High School

WEB DEVELOPMENT PATHWAY

Instructs students on the basics of designing a web page and 3D animation.

Top Career Choices

Computer Specialist
Desktop Publisher
Graphic Designer

Courses of Study

Introduction to Digital Technology
Computer Science Principles
Web Development

Offered At

Denmark High School
Forsyth Virtual Academy
North Forsyth High School
West Forsyth High School

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CLUSTER

FIREFIGHTING PATHWAY

Introduces students to how frequently the first emergency personnel are at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries or perform other vital functions.

Top Career Choices

First Line Supervisors and Prevention Workers
Fire Inspectors
Firefighters

Courses of Study

Intro to Law, Public Safety, Corrections and Security
Essentials of Fire and Emergency Services
Applications of Firefighting

Offered At

Alliance Academy for Innovation

LAW ENFORCEMENT PATHWAY

This pathway is designed to provide students with career-focused educational opportunities in various public safety fields. Each course has elements which cover tactics, methods, and skills utilized in law enforcement and other public safety organizations.

Top Career Choices

Forensic Science Technician
Lawyer
Police and Sheriff's Patrol Officer

Courses of Study

Intro to Law, Public Safety, Corrections, and Security
Criminal Justice Essentials
Criminal Investigations

Offered At

Alliance Academy for Innovation

LEGAL SERVICES/APPLICATIONS OF LAW PATHWAY

Courses are designed to provide students with the understanding of the various services which ensure the proper function of our nation's legal system.

Top Career Choices

Attorneys
Court Reporters
Paralegals and Legal Assistants

Courses of Study

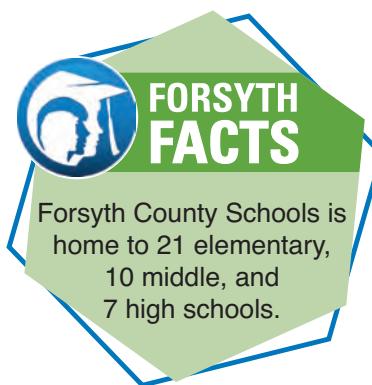
Intro to Law, Public Safety, Corrections and Security
Essentials of Legal Services
Applications of Law

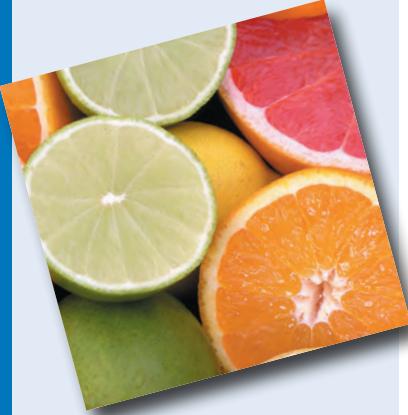
Offered At

Alliance Academy for Innovation



Careers with common knowledge and skills related to employment in emergency and fire services, legal services, protective services, and homeland security.





Careers with common knowledge and skills related to family and human needs such as nutrition and food science, counseling and mental health services, family and community services, personal care, and consumer services.

HUMAN SERVICES CLUSTER

FOOD AND NUTRITION PATHWAY

The focus of the course is centered on healthy food and lifestyle choices. Students will investigate the interrelationship of food, nutrition and wellness to promote good health.

Top Career Choices

Chef and Head Cook
Dietician/Nutritionist
Food Scientist and Technologist
Food Services Manager

Courses of Study

Food, Nutrition, and Wellness
Food for Life
Food Science

Offered At

Forsyth Central High School
Lambert High School
North Forsyth High School
West Forsyth High School

PERSONAL CARE SERVICES COSMETOLOGY PATHWAY

Students who desire to become licensed cosmetologists. All participating students are required by the Georgia State Board of Cosmetology to obtain a total of 1500 unit hours to be eligible for both the written and practical state test.

Top Career Choices

Cosmetologist
Hair Designer
Esthetician
Nail Technician

Courses of Study

Introduction to Personal Care Services
Cosmetology Services

Offered At

Forsyth Central High School
West Forsyth High School



Careers with common knowledge and skills related to planning, managing, and providing education and training services as well as related learning support services.

EDUCATION AND TRAINING CLUSTER

TEACHING AS A PROFESSION PATHWAY

Students study, apply, the creation of an effective learning environment, the creation of instructional opportunities for diverse learners and students with special needs.

Top Career Choices

Special Education Teacher
Post-Secondary Education Administrator
Secondary School Teacher

Courses of Study

Examining the Teaching Profession
Contemporary Issues in Education
Teaching as a Profession Practicum

Offered At

Denmark High School
Forsyth Central High School
Lambert High School
North Forsyth High School
South Forsyth High School
West Forsyth High School



FCS has over 10,500 student members of CTSO's focusing on Workforce Development.

MANUFACTURING CLUSTER

MANUFACTURING PATHWAY

Students will also learn about computer aided design (CAD), computer numerical control (CNC), robotics, computer assisted manufacturing (CAM), programmable logic controllers, automated guided vehicles (AGV), and computer integrated manufacturing (CIM).

Top Career Choices

- Plant Manager
- Manufacturing Engineer
- Manufacturing Supervisor

Courses of Study

- Introduction to Manufacturing and Materials Science
- Robotics and Automated Systems
- Production Enterprises

Offered At

- Denmark High School
- South Forsyth High School

Careers with common knowledge and skills in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.



MECHATRONICS PATHWAY

The Mechatronics pathway has been developed to provide students with a strong foundation in the skills needed by advanced manufacturing industry.

Top Career Choices

- Industrial Engineer
- Industrial Engineering Technician
- Industrial Machinery Mechanics

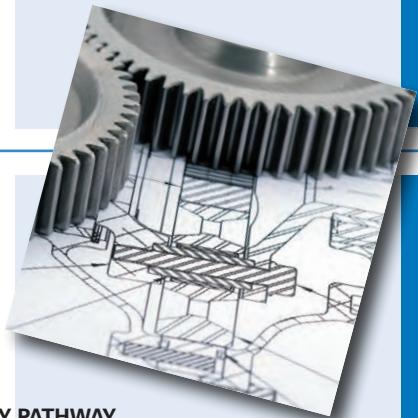
Courses of Study

- Intro to Mechatronics
- (DC Theory, Pneumatic Systems, and PLC)
- AC Theory, Electrical Motors, Hydraulic Systems
- Semiconductors Mech Sys, Pump, Piping Systems

Offered At

- Alliance Academy for Innovation

Careers with common knowledge and skills related to processing of materials into intermediate or final products and related professional and technical support activities, such as production control, maintenance, and process engineering.



ENERGY CLUSTER

ENERGY SYSTEMS PATHWAY

Students will learn about energy and power industry fundamentals by furthering their knowledge regarding electric power generation, transmission and distribution.

Top Career Choices

- Electrical Engineer
- Electrical Power-Life Installers and Repairs
- Industrial Production Manager

Courses of Study

- Foundations of Energy and Power Technologies
- Energy and Power: Technology
- Appropriate and Alternative Energy Technologies

Offered At

- Alliance Academy for Innovation



STEM CLUSTER

ENGINEERING AND TECHNOLOGY PATHWAY

STEM (Science, Technology, Engineering and Mathematics) Introduction to Engineering Design (IED) focusing design and engineering.

Top Career Choices

- Civil Engineer
- Industrial Engineer
- Mechanical Engineer

Courses of Study

- Foundations of Engineering and Technology
- Engineering Concepts
- Engineering Applications

Offered At

- Denmark High School
- Forsyth Central High School
- Lambert High School
- North Forsyth High School
- South Forsyth High School
- West Forsyth High School



Careers with common knowledge and skills related to planning, managing, and moving people, materials, and goods by road, pipeline, air, rail, and water, and also includes other related professional and technical support services.

TRANSPORTATION DISTRIBUTION AND LOGISTICS CLUSTER

AEROSPACE - AVIATION MAINTENANCE PATHWAY

Students are introduced to the occupational area of aviation maintenance as currently understood and practiced by the Federal Aviation Administration (FAA). Students will build a solid knowledge base in the basics of aircraft maintenance, performance, and design.

Top Career Choices

Aviation Mechanics & Technicians
Avionics Technicians
Aviation Maintenance Manager/Director

Courses of Study

Fundamental of Aerospace
Aviation Maintenance I
Aviation Maintenance II

Offered At

Alliance Academy for Innovation

AEROSPACE - FLIGHT OPERATIONS PATHWAY

This pathway will introduce students to the basics of aircraft navigation and the communication methods necessary for safe aircraft operations. Additionally, students will gain a meteorological foundation for understanding the forecasting and charting of weather patterns as applied to the air transportation industry.

Top Career Choices

Air Traffic Controllers
Airfield Operations Specialists
Commercial Pilots

Courses of Study

Fundamental of Aerospace
Flight Operations I
Flight Operations II

Offered At

Alliance Academy for Innovation

DISTRIBUTION AND LOGISTICS PATHWAY

In this pathway students will learn how to research applicable vehicle and service information, service history, precautions and technical service bulletins. Many basic tasks will be covered such as fluid changes, belt replacement, brake, and tire service.

Top Career Choices

Logistics Manager
Materials Mover
Storage and Distribution Manager

Courses of Study

Logistics Fundamentals
Logistics Operations
Materials Management

Offered At

Alliance Academy for Innovation

AUTOMOTIVE SERVICE TECHNOLOGY PATHWAY

This program will teach "head skills" and "hand skills" to prepare the student for the world of automotive technology careers and to meet the needs of prospective employers.

Top Career Choices

Automotive Service Technician and Mechanics
Bus and Truck Mechanic/Diesel Engine Specialist
Vocational Teacher, Post-Secondary School

Courses of Study

General Automotive Technology 1, 2, 3
Advanced Automotive Technology 4, 5, 6
Automotive Service Technology Internship 1, 2

Offered At

Forsyth Central High School

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HOSPITALITY AND TOURISM CLUSTER

CULINARY ARTS PATHWAY

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.

Top Career Choices

Chef and Head Cook
Food Services Manager
Pastry Chef

Courses of Study

Introduction to Culinary Arts
Culinary Arts I
Culinary Arts II

Offered At

Denmark High School
Lambert High School
South Forsyth High School
West Forsyth High School

HOSPITALITY, RECREATIONAL AND TOURISM PATHWAY

Students study Lodging, Hotels and Resorts; Conventions, Meetings, Trade Shows and Events; Restaurants and Food Service; Recreation, Attractions, Sporting Events and Parks and Travel, including Air, Rail, Auto and Coach.

Top Career Choices

Hotel and Lodging Managers
Meeting, Convention, Events Planners
Restaurant Manager

Courses of Study

Marketing Principles
Hospitality, Recreation, and Tourism Essentials
Hospitality, Recreation, and Tourism Management

Offered At

Alliance Academy for Innovation

SPORTS AND ENTERTAINMENT MARKETING PATHWAY

Students are introduced to Business Fundamentals, Product Mix, Product Knowledge, Product/Service Management, Business Regulations, Interpersonal Skill, Selling, Marketing Information Management, Economics, Distribution, Pricing, Advertising, Publicity/Public Relations, Sales Promotion, Business Risks, and Organization.

Top Career Choices

Marketing Manager
Marketing Research Analyst
Public Relations Specialist

Courses of Study

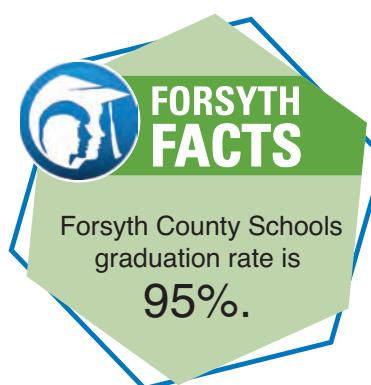
Marketing Principles
Introduction to Sports and Entertainment Marketing
Advanced Sports and Entertainment Marketing

Offered At

Denmark High School
Forsyth Central High School
Forsyth Virtual Academy
Lambert High School
North Forsyth High School
South Forsyth High School
West Forsyth High School



Careers with common knowledge and skills related to the management, marketing, and operations of restaurants, and other food services, lodging, attractions, recreation events, and travel related services.





Careers with common knowledge and skills related to planning, managing, and providing services in therapeutics, diagnostics, health informatics, support areas, and biotechnology research and development.

HEALTH SCIENCE CLUSTER

BIOTECHNOLOGY RESEARCH AND DEVELOPMENT PATHWAY

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.

Top Career Choices

Biological Photographer
Crime Lab Technician
Nurse Anesthetist
Radiology Technician

Courses of Study

Introduction to Healthcare Science
Essentials of Biotechnology
Applications of Biotechnology
Biotechnology Internship/Independent Research

Offered At

Forsyth Central High School
Lambert High School

DIAGNOSTIC SERVICES - PHLEBOTOMY PATHWAY

Students will be exposed to necessary skills and knowledge useful in any area in healthcare, anatomy and physiology of each body system, and the medical terminology, diseases and disorders, diagnosis and treatment.

Top Career Choices

Phlebotomists
Cardiovascular Technologist and Technicians
Medical Lab Assistants

Courses of Study

Introduction to Healthcare Science
Essentials of Healthcare
Diagnostics Phlebotomy

Offered At

Lambert High School

HEALTH INFORMATION TECHNOLOGY PATHWAY

Students study technology that deals with the storage, retrieval, sharing, and use of healthcare information, data, and knowledge for communication and decision making to improve patient care.

Top Career Choices

Informatics Nurse Specialists
Software Developers
Computer Support Specialists

Courses of Study

Introduction to Healthcare Science
Essentials of Health Information Technology
Applications of Health Information Technology

Offered At

Alliance Academy for Innovation

THERAPEUTIC SERVICES EMERGENCY MEDICAL RESPONDER PATHWAY

Instruction include Introductory Medical Terminology and Anatomy & Physiology; Responder Safety; Incident Command; Basic Physical Assessment; Cardiopulmonary Resuscitation and the use of Automatic External Defibrillators (AEDs).

Top Career Choices

EMT/Paramedic
Fire Fighter
Licensed Practical Nurse

Courses of Study

Introduction to Healthcare Science
Essentials of Healthcare Science
Emergency Medical Responder

Offered At

Alliance Academy for Innovation

INTERNSHIP FORSYTH

is a structured experience that connects a student's career goal and classroom learning with a productive learning environment. Internship Forsyth provides students with opportunities for instruction in occupational skills and career exploration, and guidance in identifying employment and educational goals. Students have the opportunity to connect what they learn in school with work site application.

Internship Forsyth program is designed to provide experiences and activities that support a school to career transition. This simply means that students are allowed to work off campus in the business community in order to learn more about a chosen career. Once a student has met all requirements, the Coordinator will determine the correct placement for the student. The students will earn one unit of credit for each completed course.

CAREER DEVELOPMENT COORDINATORS

The FCS follows the state model where each high school has one Career Development Coordinator. The coordinator is required to attend GADOE trainings, as well as all region meetings. Some responsibilities of the coordinator include: properly placing students in the right course number, finding job or internship placements for students, creating business partnerships, conducting employer/mentor training, visiting jobsites four times annually, using CNet to record all data such as job visits and wage/hour reports, teaching employability skills, coordinating shadow days, and being active in community groups such as the Chamber of Commerce.

INTERNSHIP FORSYTH

www.forsyth.k12.ga.us/Page/48817

INTERNSHIP FORSYTH WORK-BASED LEARNING

Forsyth County Schools

Internship Forsyth is a structured experience which connects classroom learning to an engaging job opportunity. Internships are generally paid experiences in the community. Students are allowed to leave the school campus to intern with local businesses, earning course credit for the experience.

WHY PARTICIPATE IN INTERNSHIP FORSYTH?

- Gain access to some of the best jobs/internships in the community—many employers actively seek high school students who are enrolled in Internship Forsyth
- Stand out when you apply to college — internships catch the eye of admissions counselors
- Receive internship/work experience directly related to your chosen career pathway
- Internships can result in students being awarded thousands of dollars in scholarships

FOR ADDITIONAL INFORMATION:
email: vlowe@forsyth.k12.ga.us or *visit* www.forsyth.k12.ga.us/ctae

The Forsyth County School District does not discriminate on the basis of race, color, religion, national origin, age, disability or gender in employment decisions or educational programs and activities, including its athletic programs.

REQUIREMENTS FOR INTERNSHIP FORSYTH

- Students must have a defined career goal and must have taken or be enrolled in the appropriate related coursework.
- Students must be at least 16 years of age (with reliable transportation).
- Students must have good attendance and grades, positive discipline record, and teacher recommendations.

Forsyth County Schools

COLLEGE & Career
DEVELOPMENT



INTERNSHIP FORSYTH WORK-BASED LEARNING

Forsyth County Schools

MENTORSHIP FORSYTH

Mentorship Forsyth is a year-long blended learning experience for motivated and mature 11th and 12th grade students!

www.forsyth.k12.ga.us/Page/48817

MENTORSHIP FORSYTH is designed to provide high school students challenging and enriching career-oriented opportunities not usually available within the regular classroom. Selected participants understand that this course replaces an otherwise traditional elective credit. Open to juniors and seniors, the program expands the elective curriculum beyond the school site.

Students will work and study under the direction of a Community Mentor – a person of recognized ability and success in the community. This internship incorporates the student's individual talents and intellectual abilities. The rigorous curriculum and demands of this course require students to be focused, goal-oriented, self-motivated, mature, determined to pursue enriched learning, and passionate about a particular career field.

Selected students understand that they will need to invest a minimum number of hours per week, depending on your class scheduling, in order to receive full credit for the course. This schedule is flexible and both the student and the

mentor determine the weekly meeting times. Other requirements for this course include: providing suggested names and/or specific businesses as potential mentors in the chosen career field; attending all meetings with the Mentorship Forsyth Coordinator and Community Mentor, creating a career portfolio, using technology throughout the course, presenting a culminating capstone project to a panel of community professionals, participating in team-building activities, and working with a Community Mentor Professional in his/her career field.

MENTORSHIP FORSYTH JOB SHADOWING *Forsyth County Schools*

Mentorship Forsyth gives motivated, mature students a job shadowing experience designed around the individual student's interest in a specific field or career. Participants will engage with a community mentor and will work with that mentor for the duration of the school year. Mentorships are non-paid experiences in the community. Students are allowed to leave the school campus to job shadow in local businesses and organizations, earning course credit for the experience.



WHY PARTICIPATE IN MENTORSHIP FORSYTH?

- Explore your passion for a profession
- Stand out in a competitive college and job market
- Seek to gain valuable networking skills and contacts

REQUIREMENTS FOR MENTORSHIP FORSYTH

- Students must be at least 16 years of age (with reliable transportation).
- Students must complete a year-long, career-related capstone project.
- Students must have an outstanding academic record, good attendance, positive discipline record, and teacher recommendations.

FOR ADDITIONAL INFORMATION:

email: vlowe@forsyth.k12.ga.us or visit www.forsyth.k12.ga.us/ctae

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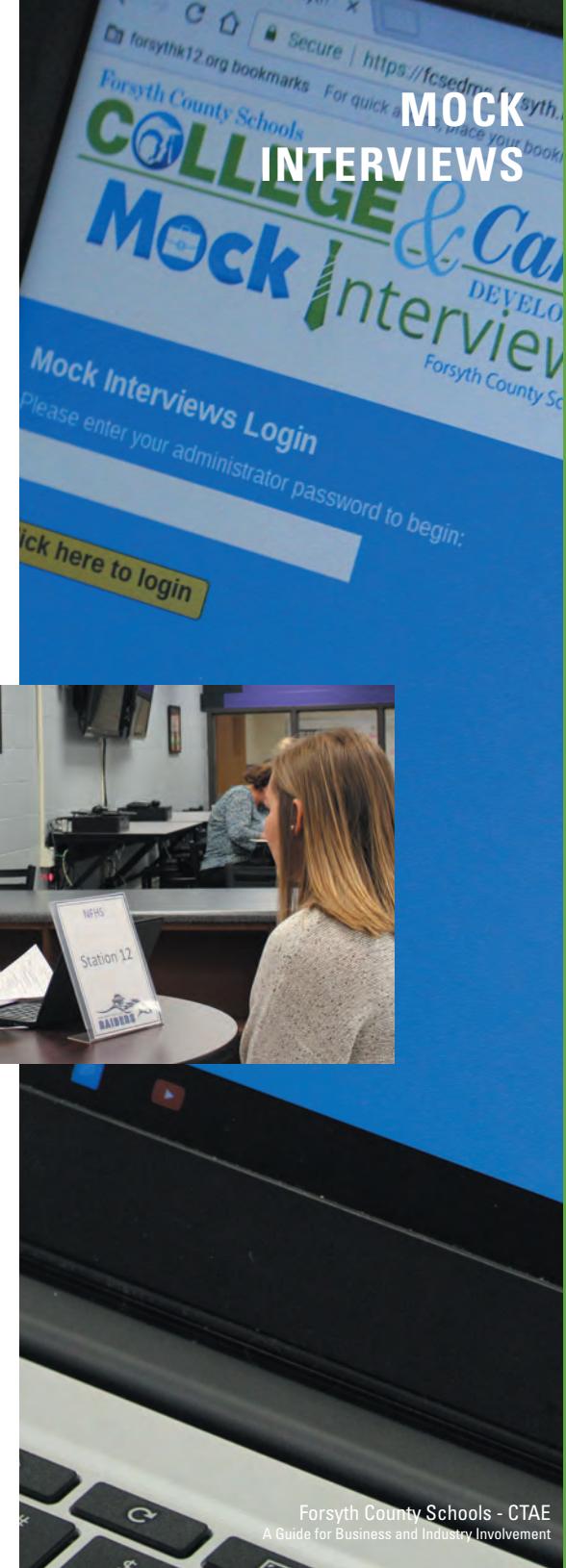


MOCK INTERVIEWS

Each year in Forsyth County, several thousand high school juniors and seniors participate in community-led mock interviews through their third-year career pathway course or through their participation in Internship Forsyth and Mentorship Forsyth. A mock interview provides students with a professional one-on-one opportunity to practice their interviewing and resume writing skills with a member of the business community. The experience also allows students immediate verbal and written feedback from the business community regarding their interview performance, resume, and professional dress. Thanks to support from the Cumming-Forsyth County Chamber of Commerce, the Rotary Clubs of Forsyth County, and other business/industry/community volunteers, all seven high schools participate in this meaningful experience.

A FOCUS ON THE SCHOOL YEAR INCLUDES THE FOLLOWING STANDARDS:

- *Attitude*
- *Initiative*
- *Flexibility*
- *Organization*
- *Discipline*
- *Integrity*
- *Respect*
- *Effective Communication*
- *Teamwork*
- *Attendance and Punctuality*
- *Customer Service*
- *Critical Thinking and Problem Solving*
- *Professionalism*
- *Adherence to Policy*
- *Technology Usage and Social Media Ethics*





DRESS FOR SUCCESS

DRESS FOR SUCCESS

Throughout career and technical education curriculum in Forsyth County, occupational dress codes are studied as part of the pathway. In addition, students are taught and shown examples of proper interview attire in preparation for community Mock Interview Weeks, CTSO events, scholarship interviews, graduation ceremonies, and other important times during their high school careers. Because of the emphasis placed on appropriate dress, all high schools implement Dress for Success Days several times each school year. Overall, this program seeks to remind students that clothing and appearance are important parts of making a good impression.



THE DISTRICT'S JOB POSTING BOARD seeks to list job opportunities specifically available to high school students in the surrounding area which are listed by employment category. FCS job posting services are available to local employers, business, industry, government, and non-profit organizations for assistance in seeking qualified employees or interns. To place a listing as an employer or search jobs available as a student, visit www.forsyth.k12.ga.us/jobboard. The FCS Job Posting Board acts only as a posting service and makes no particular recommendations regarding employers or students applying for jobs.



DISCLAIMER: FCS Job Posting Board acts only as a posting service and makes no particular recommendations regarding employers or students applying for jobs. We make no representations or guarantees about positions listed by the employer, not do we make guarantees about students applying for these positions. FCS is not responsible for safety, wages, working conditions, or other aspects of off-campus employment. Due to the volume of jobs received by our office, we are unable to research each organization or person that lists a job with us, not are we able to research each student who applies for these positions. Administrators review all positions that are submitted for posting, and reserves the right to reject positions.

FCS JOB POSTING BOARD

www.forsyth.k12.ga.us/jobboard





INDUSTRY CERTIFICATIONS

INDUSTRY CERTIFICATIONS

Forsyth County Schools, like many other career and technical education programs around the state and nation, has worked in recent years to establish a measurement mechanism to ascertain the level of technical skill attainment on behalf of its career pathway completers. In working to identify existing assessment (or credentialing) opportunities that would not only support the mandates set forth in Perkins Legislation, but would also support Georgia students in their quest to leave high school with valuable credentials, the state's technical skill attainment inventory is comprised of several measurement components:

- *industry certifications/credentials*
- *occupational assessments, and*
- *state licensures and state developed assessments*

Forsyth County administered approximately 2,000 industry credentialing exams last school year in the following areas:

- Accounting - Basics Assessment
- ACIO: Axalta Certified IoT Professional
- Adobe Certified Associate (ACA): Adobe Premiere Pro
- Agricultural Science
- ASE Certifications
- Athletic Training Student Aide Assessment
- Biotechnology Assessment
- CIW Site Development Associate
- Emergency Medical Responder (EMR)
- Engineering Assessment
- Financial & Investment Planning Assessment
- General Management Assessment
- Human Resources Management Assessment
- Microsoft Office Specialist (MOS) 2016
- National Certified Phlebotomy Technician (NCPT)
- National Health Science Assessment
- NOCTI Certifications
- Manufacturing Certification
- Microsoft Technology Associate (MTA): Software Development Fundamentals
- QuickBooks
- Secondary Culinary Graduate Certification ACFEF
- Security + Certification
- ServSafe Food Safety Handler Certification
- SkillsUSA Certifications
- Teaching as a Profession Assessment



INDUSTRY CERTIFIED PROGRAMS

When a program became industry certified, it received a “stamp of excellence,” which represents the apex of program quality. Only those programs that have successfully undergone rigorous reviews by leaders from business and industry are recognized with this distinction. The State Department of Education is committed to the industry certification process as a part of its effort to strengthen technical and academic standards for all Career, Technical, and Agricultural Education (CTAE) programs.

This Formal Process Strengthens All Program Components, Including:

- Classrooms and labs which are equipped with state-of-the-art equipment and technology;
- CTAE and academic performance standards that are aligned to national standards;
- In-depth, project-based instruction in all curriculum areas; school-based enterprises and entrepreneurial ventures;
- Career and Technical Student Organizations (CTSOs) which offer co-curricular competitive events on the local, state and national level and provide leadership development skills for personal and professional growth; and,
- Business, industry and community involvement in all aspects of the program.

Industry certified programs not only offer outstanding opportunities to students who receive instruction through such programs; but they also offer positive benefits for schools as well as employers.



INDUSTRY CERTIFIED PROGRAMS

INDUSTRY CERTIFIED PROGRAMS IN FORSYTH COUNTY

Automotive Service Technology

(Certified by NATEF):
Forsyth Central High School

A/V, Technology, and Film

(Certified by MEFGA):
North Forsyth High School
West Forsyth High School

Business and Computer Science

(Certified by SHRM):
Lambert High School
North Forsyth High School
South Forsyth High School
West Forsyth High School

Culinary Arts (Certified by ACFEF):

Lambert High School
South Forsyth High School
West Forsyth High School

Engineering (Certified by ITEGA):

Forsyth Central High School
Lambert High School
North Forsyth High School
South Forsyth High School
West Forsyth High School

Healthcare Science

(Certified by HomeTown Health):
Lambert High School
North Forsyth High School

Marketing (Certified by AMA):

Forsyth Central High School
Lambert High School
North Forsyth High School
South Forsyth High School
West Forsyth High School



CAREER & TECHNICAL STUDENT ORGANIZATIONS

CTSOs are co-curricular organizations with leadership programs and competitive events which reflect current curriculum standards and competencies for the instructional programs they serve. Teachers infuse CTSO activities into the instructional activities, thereby helping students see the real world value of their academic studies.



The mission of Georgia CTI is to provide meaningful leadership and employment experiences for students with disabilities through career, technical, and agricultural education courses.

Applicable Pathways: All CTAE Career Clusters and Pathways



The mission of DECA, an Association of Marketing Students, is to prepare emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe.

Applicable Pathways: Marketing and Management, Fashion Marketing, Sports and Entertainment, Marketing Communications and Promotion, Hospitality and Tourism, Finance, and Business Management and Administration



The mission of Georgia FBLA is to bring business and education together in a positive working relationship through innovative leadership and career development programs.

Applicable Pathways: Computer Science, Financial Services, Accounting, Entrepreneurship, Human Resources Management, Programming, Web Development, Networking, and Game Design



The mission of FCCLA is to promote personal growth and leadership development through family and consumer sciences education. Focusing on the multiple roles of family member, wage earner and community leaders, members develop skills for life through -- character development, creative and critical thinking, interpersonal communication, practical knowledge, and career preparation.

Applicable Pathways: Family and Consumer Sciences, Culinary Arts, and Teaching as a Profession





The mission of FFA, Future Farmers of America, is to make a positive difference in the lives of young people by developing their potential for premier leadership, personal growth, and career success through agricultural education.

Applicable Pathways: Agriculture Leadership, Animal Science, Veterinary Science, Agriculture Mechanics, Companion Animal Systems, and Environmental Agriculture Systems



The mission of FIRST Robotics is to inspire young people to be science and technology leaders and innovators, by engaging them in exciting mentor-based programs that build science, engineering, and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

Applicable Pathways: Engineering, Manufacturing, Mechatronics



The mission of HOSA is to enhance the delivery of compassionate, quality health care by providing opportunities for knowledge, skill and leadership development for all health science technology education students, therefore, helping students to meet the needs of the health care community.

Applicable Pathways: Diagnostic Services, Health Informatics, Therapeutic Services, Physical Medicine, Biotechnology Research & Development, Sports Medicine



SkillsUSA's mission is to help its members become world class workers, leaders and responsible American citizens. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA helps each student excel.

Applicable Pathways: Fire Fighting, Flight Operations, Graphic Design, Law and Justice, Transportation, A/V Technology, Digital Animation, Cosmetology, Personal Care Services



The mission of the Technology Student Association is learning to lead in a technical world. TSA enhances personal development, leadership, and career opportunities in STEM, whereby members apply and integrate these concepts through intracurricular activities, competitions, and related programs.

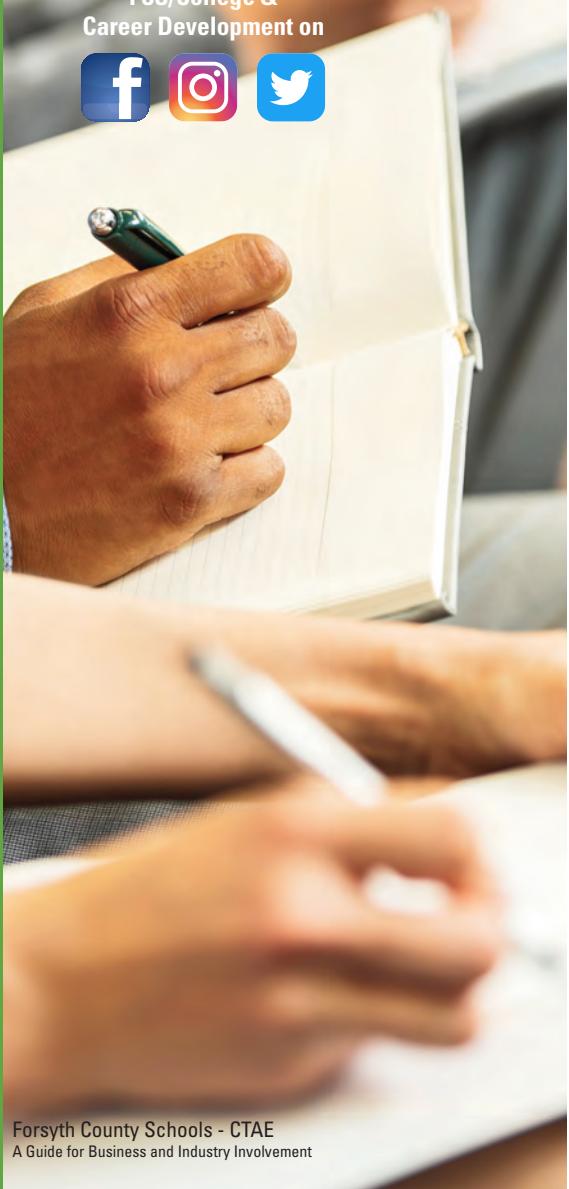
Applicable Pathways: Energy Systems, Engineering, Manufacturing, Mechatronics



CAREER & TECHNICAL STUDENT ORGANIZATIONS

NOTES

Like and follow
FCS/College &
Career Development on





FCS AND THE OFFICE OF COLLEGE AND CAREER DEVELOPMENT AGREES TO:

- Be available to both partner and school to facilitate and guide all parties through the planning, implementation and evaluation stages of a partnership.
- Meet at least once a semester with the Career Development Partner to discuss opportunities and keep FCS informed of goals and events.
- Plan partnership goals and activities that align with school improvement plans.
- Provide partnership development and celebration opportunities.
- Publicly display FCS Career Development Partner involvement.
- Share photos, stories of success, and events on the FCS/College & Career Development social media sites and newsletters.
- Collaborate with school and partner to review and evaluate Partnership growth.
- Administer a Career Development Platform.

THE PARTNER AGREES TO:

- Commit to work with schools for the school year and have active participation in a career pathway. See opportunities on next page.
- Attend a one-hour pathway advisory council meeting (once a semester).
- Display your Career Development Partnership, such as a decal or partnership certificate, in your place of business.
- Like and follow FCS/College & Career Development on Facebook, Instagram, and Twitter. Share photos, stories of success, and events.
- Report volunteer activities in our Career Development Platform.
- Maintain a working relationship with a Pathway Leader or Career Development Coordinator, and alert school and FCS of any changes.

Partner Representative

Career Development Coordinator

Director of College & Career Development

Date of Partnership Agreement



CAREER DEVELOPMENT PARTNER FORM

CAREER DEVELOPMENT PARTNER FORM

CAREER DEVELOPMENT OPPORTUNITIES FOR PARTICIPATION – PLEASE DESIGNATE AREAS YOU CAN ASSIST!

- Advisory Council
- Curriculum Development
- Teacher Externships
- Facilities/Equipment
- College & Career Fair Participation
- Mock Interviews
- CTSO Support
- Mentorship
- Classroom Speaker
- Internship/Mentorship Placement
- Competitive Event Judging
- Awards/Recognition Support
- Career Transitions for Students with Special Needs and/or At-Risk Students

Like and follow
FCS/College &
Career Development on



Registration Form

Contacts for the FCS Career Development Partnership will receive a quarterly e-newsletter, invitations to special events and trainings and announcements about volunteer opportunities.

Partnering Company/Organization Name:

We Would Like to Partner with the Following Schools:

Primary Partnership Contact:

Title:

Company Address:

City:

State:

Zip Code:

Work Phone:

Cell Phone:

E-mail:

Additional Contacts for this Partnership

Name of Additional Contact (if applicable):

Partnering Company/Organization Name (if different than above):

Title:

Address:

City:

State:

Zip Code:

Work Phone:

Cell Phone:

E-mail:

Name of Additional Contact (if applicable):

Partnering Company/Organization Name (if different than above):

Title:

Address:

City:

State:

Zip Code:

Work Phone:

Cell Phone:

E-mail: