



2024-2025

FAYETTE COUNTY PUBLIC SCHOOLS

CTE

CAREER

PLANNER

SCHOOL KEY SYSTEM

Throughout this book, a school key system is used to indicate which programs, classes, and clubs are offered at each school.

- Fayette County High School
- McIntosh High School
- Sandy Creek High School
- Starr's Mill High School
- Whitewater High School

TABLE OF CONTENTS

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PARENTS AND STUDENTS	7
NOTICE OF NON-DISCRIMINATION	8
MIDDLE SCHOOL PERFORMANCE STANDARDS	9
CAREERS TO 2030 BY ON-THE-JOB TRAINING	10-11
GEORGIA'S HOT CAREERS TO 2030	12-13
GEORGIA'S STEM CAREERS TO 2030	14-15
ADDITIONAL OPPORTUNITIES	16-17
Industry Certification, Non-Traditional and Resources	16
Work-Based Learning	17
Career and Technical Student Organizations	18-19
CTE FOURTH SCIENCE OPTIONS	20
DUAL ENROLLMENT	21
CAREER CLUSTERS	22
CAREER PATHWAYS	23
PATHWAYS	
ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATION CLUSTER	
● ● ●	AUDIO/VIDEO TECHNOLOGY AND FILM (AVTF) I AND II PATHWAYS 24 FILM I PATHWAY Audio and Video Technology and Film Audio and Video Technology and Film II Audio and Video Technology and Film III
● ●	FILM II PATHWAY Audio and Video Technology and Film Audio and Video Technology and Film II Broadcast Video Production Application
●	FILM PRODUCTION PATHWAY 25 Audio and Video Technology and Film Introduction to Film Production Film Production Application
● ● ● ● ●	GEORGIA FILM ACADEMY OPTION 26 Film 1100 - GFA Course 1 Film 1030 - Essentials of Film and Television Post - Production 1 Film 2010 - Advanced Skills for Film and TV Production I Film 2020 - Advanced Skills for Film and TV Production II

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ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATION CLUSTER		
●	ANIMATION AND DIGITAL MEDIA PATHWAY Introduction to Digital Media Principles and Concepts of Animation Advanced Animation, Game and App Design Animation Practicum Capstone	27
● ● ●	GRAPHIC COMMUNICATION PATHWAY Introduction to Graphics and Design Graphic Design and Production Advanced Graphic Output Processes	28
● ● ●	GRAPHIC DESIGN PATHWAY Introduction to Graphics and Design Graphic Design and Production Advanced Graphic Design	29
BUSINESS MANAGEMENT AND ADMINISTRATION CLUSTER		
● ●	ENTREPRENEURSHIP PATHWAY Introduction to Business and Technology Legal Environment of Business Entrepreneurship	30
EDUCATION AND TRAINING CLUSTER		
●	EARLY CHILDHOOD CARE AND EDUCATION II PATHWAY Early Childhood Education I Early Childhood Education II Early Childhood Education Practicum	31
●	TEACHING AS A PROFESSION PATHWAY Examining the Teaching Profession Contemporary Issues in Education Teaching as a Profession Practicum	32
FINANCE CLUSTER		
● ● ●	FINANCIAL SERVICES PATHWAY Introduction to Business and Technology Financial Literacy Banking, Investing and Insurance	33

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GOVERNMENT AND PUBLIC ADMINISTRATION CLUSTER		
●	JROTC AIR FORCE PATHWAY Aerospace Science: Aviation History and Leadership 100 Aerospace Science: Flight Science and Leadership 200 Aerospace Science: Cultural Studies and Leadership 300 Aerospace Science: Corps Management and Leadership 400	34
●	JROTC ARMY PATHWAY JROTC Army Leadership Education I JROTC Army Leadership Education II JROTC Army Leadership Education III JROTC Army Leadership Education VII	35
HEALTH SCIENCE CLUSTER		
● ● ● ● ●	THERAPEUTIC SERVICES - ALLIED HEALTH AND MEDICINE PATHWAY Introduction to Healthcare Science Essentials of Healthcare Allied Health and Medicine FCBOE Course (Center of Innovation)	36
● ● ● ● ●	THERAPEUTIC SERVICES - PATIENT CARE PATHWAY Introduction to Healthcare Science Essentials of Healthcare Patient Care Fundamentals Dual Enrollment Courses with SCTC (Center of Innovation)	37
● ● ● ● ●	THERAPEUTIC SERVICES - EMR PATHWAY Introduction to Healthcare Science Essentials of Healthcare Emergency Medical Responder Dual Enrollment Courses with SCTC (Center of Innovation)	38
● ● ● ● ●	THERAPEUTIC SERVICES - EMERGENCY MEDICAL TECHNICIAN - EMT PATHWAY Introduction to Healthcare Science Essentials of Healthcare Emergency Medical Technician Dual Enrollment Courses with SCTC (Center of Innovation)	39
● ● ● ● ●	DIAGNOSTIC SERVICES - PHLEBOTOMY PATHWAY Introduction to Healthcare Science Essentials of Healthcare Diagnostics Phlebotomy Dual Enrollment Courses with SCTC (Center of Innovation)	40
HUMAN SERVICES CLUSTER		
● ● ● ● ●	NUTRITION AND FOOD SCIENCE PATHWAY Food, Nutrition, and Wellness Food for Life Food Science	41


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INFORMATION TECHNOLOGY CLUSTER			
● ● ● ●	COMPUTER SCIENCE PATHWAY Introduction to Software Technology Computer Science Principles or AP Computer Science Principles AP Computer Science is the only course in this pathway offered at SMHS.		42
● ●	PROGRAMMING PATHWAY Introduction to Software Technology Computer Science Principles or AP Computer Science Principles Programming, Apps, Games and Society		43
LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CLUSTER			
● ●	FORENSIC SCIENCE PATHWAY Introduction to Law, Public Safety, Corrections and Security Criminal Justice Essentials Forensic Science and Criminal Investigations		44
MARKETING CLUSTER			
● ●	MARKETING AND MANAGEMENT PATHWAY Marketing Principles Marketing and Entrepreneurship Marketing Management		45
●	MARKETING COMMUNICATIONS AND PROMOTIONS PATHWAY Marketing Principles Promotion and Digital Marketing Integrated Marketing Communications		46
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CLUSTER			
● ● ● ● ●	ENGINEERING AND TECHNOLOGY PATHWAY Foundations of Engineering and Technology Engineering Concepts Engineering Applications		47
TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER			
●	AEROSPACE - FLIGHT OPERATIONS PATHWAY Fundamental of Aerospace Flight Operations I Flight Operations II		48
	UNMANNED AIRCRAFT SYSTEMS PATHWAY Dual Enrollment Courses with SCTC AVOT 2001 UAS Concepts AVOT 2003 Aviation Meteorology and National Airspace System AVOT 2103 Small Unmanned Aircraft System Regulations		49
● ●	GENERAL AUTOMOTIVE TECHNOLOGY PATHWAY Automotive Technologies 1 Automotive Technologies 2 Automotive Technologies 3		50



Preparing students for success after high school is an inherent component of the Fayette County Public Schools' Vision. Whether students plan to enter the workforce immediately or attend college after high school graduation, careful consideration of high school course options can impact their futures. To better prepare students for the demands of the 21st century economy and for post-secondary education, Fayette County Public Schools's Career & Technical Education Department has provided this planning guide for use by students and their parents.

PARENTS AND STUDENTS



FAYETTE COUNTY HIGH SCHOOL

1 Tiger Trail, Fayetteville, GA 30214
770.460.3540
www.fcboe.org/FCHS



MCINTOSH HIGH SCHOOL

201 Walt Banks Road, Peachtree City, GA 30269
770.631.3232
www.fcboe.org/MHS



SANDY CREEK HIGH SCHOOL

360 Jenkins Road, Tyrone, GA 30290
770.969.2840
www.fcboe.org/SCHS



STARR'S MILL HIGH SCHOOL

193 Panther Path, Fayetteville, GA 30215
770.486.2710
www.fcboe.org/SMHS



WHITEWATER HIGH SCHOOL

100 Wildcat Way, Fayetteville, GA 30215
770.460.3935
www.fcboe.org/WHS





NOTICE OF NON-DISCRIMINATION

The Fayette County Public Schools Career and Technical Education department does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to other designated youth groups. The following person(s) has been designated to handle inquiries regarding the non-discrimination policies:

504 Coordinator Audrey Toney
 Director of Student Services
 Fayette County Public Schools
 205 LaFayette Avenue
 Fayetteville, GA 30214
 770.460.3990

Title IX Coordinator Erin Roberson
 Executive Director of Human Resources
 Fayette County Public Schools
 205 LaFayette Avenue
 Fayetteville, GA 30214
 770.460.3990

PUBLIC NOTICE FAYETTE COUNTY PUBLIC SCHOOLS

The Fayette County School system offers the following career and technical education programs for all students regardless of race, color, national origin, including those with limited English proficiency, sex or disability in grades 9-12. The following is a list of the career clusters being offered this year.

- *Arts, A/V Technology, and Communications*
- *Business Management and Administration*
- *Education and Training*
- *Finance*
- *Government and Public Administration*
- *Health Science*
- *Human Services*
- *Information Technology*
- *Law, Public Safety, Corrections and Security*
- *Marketing*
- *Science, Technology, Engineering and Mathematics*
- *Transportation Distribution and Logistics*

Persons seeking further information concerning the career and technical education offerings and specific pre-requisite criteria should contact:

James Stanford
 Coordinator of Career and Technical Education
 250 South Peachtree Parkway, Peachtree City, GA 30269
 770.716.1209 ext. 5502
 stanford.james@fcboe.org

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Designed to meet the needs of young adolescents (ages 10-15), middle schools bridge the gap between elementary and high school by providing students with an opportunity to learn in a safe, nurturing, and positive environment. According to the National Middle School Association (NMSA) characteristics of effective middle schools include courageous, collaborative leadership, a shared vision that guides decisions, high expectations for every member of the learning community, students and teachers engaged in active learning, and school community partnerships.

These characteristics are also found within the Career, Technical and Agricultural Education programs in Georgia. CTAE is making giant strides to bring middle school programs to new career readiness goals. The new curriculum includes national standards, CTAE standards and Georgia Performance Standards, in addition to career development activities allowing students to make the connection between class work and workforce.

Each Middle School CTE Program area course includes essential and relevant performance standards for math, science, language arts, and social studies. Middle school CTE courses also reinforce Reading Across the Content, Technical Writing standards, Entrepreneurship standards, and CTE foundation Skills. CTE middle school courses feature rigorous performance standards that students master to help further explore and develop future career pathways.

MIDDLE SCHOOL CTE COURSES

Middle School Business Management and Finance

Foundations of Business Administration
Foundations of Business Management
Foundations of Investing and Finance

Middle School Career Development

Career Awareness (Grade 6)
Career Discovery (Grade 7)
Career Management (Grade 8)

Middle School Communications

Broadcast and Graphic Communications (Grade 6)
Introduction to Communications (Grade 7)
Applications of Communications (Grade 8)

Middle School Computer Science

Computer Science (Grade 6)
Computer Science (Grade 7)
Foundations of Secure Information Systems

Middle School Engineering and Technology

Exploring Engineering and Technology (Grade 6)
Invention and Innovation (Grade 7)
Technological Systems (Grade 8)

Middle School Family and Consumer Science

Family and Consumer Science (Grade 6)
Family and Consumer Science (Grade 7)
Family and Consumer Science (Grade 8)

EXPLORATORY PROGRAMS	Bennett's Mill	Flat Rock	JC Booth	Rising Starr	Whitewater
Business Management and Finance	X		X		X
Career Development		X			
Communications		X	X	X	
Computer Science Courses	X	X	X	X	X
Engineering and Technology	X	X	X	X	X
Family and Consumer Science			X	X	X

GEORGIA'S Careers to 2030 by On-the-Job Training

training/preparation typically needed to attain competency in the occupation

<p>Apprenticeship - a formal relationship between a worker and a sponsor that consists of a combination of on-the-job training and related occupation-specific instruction</p> <p>Long-term on-the-job training - more than 12 months of on-the-job training, or, alternatively, combined work experience and formal classroom instruction</p> <p>Moderate-term on-the-job training - more than 1 month, and up to 12 months, of combined on-the-job experience and informal training</p> <p>Short-term on-the-job training - 1 month or less of combined on-the-job experience and informal training</p> <p>None - no additional occupation-specific training or preparation is typically required</p> <p>Hot jobs have faster than state average job growth, above state average wage, and have at least 100 annual openings.</p>	Work Activities																		Education		Occupational Characteristics		
	Analyzing Data or Information	Assisting and Caring for Others	Coaching and Developing Others	Controlling Machines and Processes	Coordinating the Work and Activities of Others	Developing and Building Teams	Establishing & Maintaining Interpersonal Relationships	Guiding, Directing, and Motivating Subordinates	Handling and Moving Objects	Inspecting Equipment, Structures, or Materials	Judging the Qualities of Objects, Services, or People	Making Decisions and Solving Problems	Operating Vehicles, Mechanized Devices, or Equipment	Organizing, Planning, and Prioritizing Work	Performing General Physical Activities	Repairing and Maintaining Mechanical Equipment	Resolving Conflicts and Negotiating with Others	Scheduling Work and Activities	Associate Degree / Some college, no degree	Postsecondary non-degree award	High school diploma or equivalent	No formal educational credential	2021 Edition - Georgia Wage Estimates
Apprenticeship																							
Boilermakers	•	•		•		•	•	•	•	•	•	•	•	•	•	•	•					\$70,800	40
Carpenters	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$45,800	1,140
Electricians	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$57,800	2,070
Glaziers				•				•	•	•	•	•	•	•	•	•	•					\$43,700	100
Insulation Workers, Mechanical		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•					\$42,900	70
Millwrights	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$53,200	170
Plumbers, Pipefitters, and Steamfitters				•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$58,400	1,150
Sheet Metal Workers				•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$51,900	400
Structural Iron & Steel Workers				•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$56,500	240
Long-term on-the-job training																							
Actors Hot								•	•					•	•							\$72,900	340
Automotive Body & Related Repairers	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$53,900	610
Bakers										•	•	•	•	•	•	•	•					\$31,500	890
Bus & Truck Mechanics & Diesel Engine Specialists	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$51,700	930
Butchers & Meat Cutters				•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$31,000	730
Claims Adjusters, Examiners, & Investigators	•									•	•	•	•	•	•	•	•					\$72,500	1,020
Court, Municipal, & License Clerks	•													•	•	•	•					\$38,500	590
Electrical Power-Line Installers & Repairers	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$61,400	200
Electrical/Electronics Repairers, Commercial & Industrial				•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$63,800	410
Farm Equipment Mechanics & Service Technicians	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$42,600	310
Firefighters	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$41,400	960
Heating, AC, & Refrigeration Mechanics & Installers	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$48,000	1,090
Industrial Machinery Mechanics Hot	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$55,600	1,560
Machinists				•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$46,700	990
Maintenance Workers, Machinery				•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$51,200	190
Mobile Heavy Equipment Mechanics, Except Engines	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$52,300	610
Molders, Shapers, & Casters, Except Metal & Plastic				•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$40,700	140
Opticians, Dispensing	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$40,700	180
Telecommunications Line Installers & Repairers	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$50,700	250
Water & Wastewater Treatment Plant & Sys Operators	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$44,100	320
Moderate-term on-the-job training																							
Billing & Posting Clerks	•													•	•	•	•					\$41,300	1,800
Bookkeeping, Accounting, & Auditing Clerks	•													•	•	•	•					\$44,600	4,470
Cooks, Restaurant	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					\$28,700	7,830
Correctional Officers & Jailers	•	•	•											•	•	•	•					\$38,000	1,190
Flight Attendants Hot	•	•												•	•	•	•					\$61,900	1,220



<https://explorer.gdol.ga.gov/gsipub/index.asp?docid=356>

Georgia Department of Labor, Workforce Statistics Division

Equal Opportunity Employer/Program • Auxiliary Aids and Services Available upon Request to Individuals with Disabilities

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Moderate-term on-the-job training Continued																								
Inspectors, Testers, Sorters, Samplers, & Weighers	•			•						•	•	•	•	•	•	•					•	\$41,700	2,140	
Insurance Sales Agents	•					•					•	•				•	•				•	\$66,200	1,720	
Maintenance & Repair Workers, General	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$41,600	4,720	
Medical Secretaries	•	•			•		•									•					•	\$40,300	2,340	
Operating Engineers & Other Constr Equip Operators	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•				•	\$41,100	1,610	
Packaging & Filling Machine Operators & Tenders	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•				•	\$37,400	1,200	
Pharmacy Technicians	•	•			•		•									•					•	\$33,400	1,160	
Police & Sheriff's Patrol Officers	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$50,500	1,940	
Production Workers, All Other				•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$33,700	1,790	
Production, Planning, & Expediting Clerks	•					•															•	\$51,700	1,280	
Real Estate Sales Agents	•	•	•		•	•	•					•	•	•	•	•	•				•	\$73,900	1,590	
Sales Reps, Wholesale & Mfg, Exc Tech & Sci Products											•	•	•	•	•	•	•				•	\$75,400	5,130	
Welders, Cutters, Solderers, & Brazers								•	•						•						•	\$43,300	2,000	
Short-term on-the-job training																								
Cashiers		•	•	•	•	•		•	•	•	•				•	•					•	\$24,000	22,050	
Childcare Workers		•			•	•	•			•	•				•	•	•				•	\$22,700	4,090	
Customer Service Representatives	•				•	•	•									•	•				•	\$36,600	14,710	
Farmworkers & Laborers, Crop, Nursery, & Greenhouse	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$26,100	7,350	
Food Preparation Workers		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$25,700	6,610	
Heavy & Tractor-Trailer Truck Drivers										•	•	•	•	•	•	•	•				•	\$50,900	9,140	
Industrial Truck & Tractor Operators	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$39,600	4,890	
Janitors & Cleaners, Exc Maids & Housekeeping Cleaners								•	•						•	•					•	\$27,500	7,860	
Laborers & Freight, Stock, & Material Movers, Hand				•				•	•	•	•	•	•	•	•	•	•				•	\$32,800	19,930	
Light Truck or Delivery Services Drivers	•							•	•	•	•	•	•	•	•	•	•				•	\$41,400	4,510	
Office Clerks, General								•	•	•	•	•	•	•	•	•	•				•	\$36,700	8,410	
Retail Salespersons		•						•	•	•	•	•	•	•	•	•	•				•	\$29,600	21,750	
Secretaries & Admin Assistants, Exc Legal, Med, & Exec		•						•							•						•	\$36,400	6,630	
Security Guards	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$32,400	4,600	
Writers & Compositors		•			•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$23,900	16,350	
None typically required																								
Farmers, Ranchers, & Other Agricultural Managers	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$64,400	4,910	
Medical Assistants	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$36,900	4,370	
Supervisors of Food Preparation & Serving Workers		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$36,200	6,330	
Supervisors of Office & Administrative Support Workers	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$60,300	4,790	
Supervisors of Retail Sales Workers	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	\$47,100	5,200	

Note: This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the Georgia Department of Labor and does not necessarily reflect the official position of the U.S. Department of Labor. This product is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.

<https://explorer.gdol.ga.gov/gsipub/index.asp?docid=356>

For more information, contact Workforce Statistics Division at (404) 232-3875 or at workforce_info@gdol.ga.gov

Georgia's HOT Careers to 2030

The careers in this chart have it all!

Skills and Abilities

- advanced skills required
- moderate skills required

Work Activities

- frequently found
- occasionally found

HOT jobs have faster than state annual average job growth, above the state annual average wage, and have at least 100 annual openings.

- Critical Thinking/Problem Solving
- Judgement & Decision Making
- Service Oriented/Instructing
- Listening/Reading
- Oral Expression
- Dexterity/Aim-Hand Steadiness
- Reasoning
- Written Expression/Comprehension
- Assisting & Caring for Others
- Coaching/Training & Teaching Others
- Communicating Outside Organization
- Control Machines/Inspect Others
- Working with Computers
- Monitor Processes, Materials, Surroundings
- Physical Acts/Handle-Move Objects
- Schedule/Organize, Plan, & Prioritize Wk
- Thinking Creatively
- 2021 Edition - Georgia Wage Estimate
- 2020-30 Annual Openings

Occupational Characteristics	2021 Edition - Georgia Wage Estimate	2020-30 Annual Openings	Thinking Creatively	Schedule/Organize, Plan, & Prioritize Wk	Physical Acts/Handle-Move Objects	Monitor Processes, Materials, Surroundings	Working with Computers	Control Machines/Inspect Others	Communicating Outside Organization	Coaching/Training & Teaching Others	Assisting & Caring for Others	Written Expression/Comprehension	Reasoning	Dexterity/Aim-Hand Steadiness	Oral Expression	Listening/Reading	Service Oriented/Instructing	Judgement & Decision Making	Critical Thinking/Problem Solving
Doctoral or professional degree																			
Health Specialties Teachers, Postsec	\$127,300	690	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Lawyers	\$145,900	1,470	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Medical Scientists, Except Epidemiologists	\$78,800	210	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nursing Instructors & Teachers, Postsec	\$75,000	120	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Physical Therapists	\$92,500	480	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Veterinarians	\$99,700	130	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Master's degree																			
Nurse Practitioners	\$110,500	1,250	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Occupational Therapists	\$92,500	270	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Physician Assistants	\$108,400	520	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Speech-Language Pathologists	\$81,300	400	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bachelor's degree																			
Accountants & Auditors	\$86,800	3,940	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●
Art Directors	\$109,000	230	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Camera Operators, TV, Video, & Motion Picture	\$60,200	200	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Commercial & Industrial Designers	\$60,800	110	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Construction Managers	\$96,800	4,100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Environmental Scientists & Specialists, Including Health	\$78,600	260	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Film & Video Editors	\$78,600	160	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Financial Examiners	\$96,000	110	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Financial Managers	\$148,300	1,940	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
General & Operations Managers	\$118,400	8,060	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Human Resources Specialists	\$65,300	2,430	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Industrial Engineers	\$90,400	670	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Interpreters & Translators	\$60,800	310	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Loan Officers	\$89,700	1,070	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Logisticians	\$71,200	1,120	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Management Analysts	\$99,200	2,350	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Market Research Analysts & Marketing Spec	\$72,000	2,750	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Multimedia Artists & Animators	\$67,400	320	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Operations Research Analysts	\$74,200	350	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Fast job growth ✓ Above average wages ✓ At least 100 expected annual job openings



<https://explorer.gdol.ga.gov/gsipub/index.asp?docid=356>

Georgia Department of Labor, Workforce Statistics Division

Equal Opportunity Employer/Program • Auxiliary Aids and Services Available upon Request to Individuals with Disabilities

Georgia's HOT Careers to 2030

The careers in this chart have it all!

Skills and Abilities

- advanced skills required
- moderate skills required

Work Activities

- frequently found
- occasionally found

HOT jobs have faster than state annual average job growth, above the state annual average wage, and have at least 100 annual openings.

Skills and Abilities	Work Activities	Occupational Characteristics
Critical Thinking/Problem Solving	Physical Acts/Handles, Matrix, Surrounds	2021 Edition - Georgia Wage Estimate
Judgement & Decision Making	Process/Analyze Data or Information	2020-30 Annual Openings
Service Oriented/Instructing	Schedule/Organize Data or Information	
Listening/Reading	Thinking Creatively	
Oral Expression/Comprehension		
Dexterity/Arm-Hand Steadiness		
Reasoning		
Written Expression/Comprehension		
Assisting & Caring for Others		
Coaching/Training & Teaching Others		
Communicating Outside Organization		
Control Machines/Inspect Equipment		
Working With Computers		
Monitor Processes, Matrix, Surrounds		

Education Level	Personal Financial Advisors	Producers & Directors	Registered Nurses	Securities, Commodities, & Financial Svcs Sales Agents	Social & Community Service Managers	Training & Development Specialists	Writers & Authors	Cardiovascular Technologists & Technicians	Diagnostic Medical Sonographers	Magnetic Resonance Imaging Technologists	Occupational Therapy Assistants	Paralegals & Legal Assistants	Physical Therapist Assistants	Radiologic Technologists	Respiratory Therapists	Tool and Die Makers	Actors	Chefs & Head Cooks	Flight Attendants	Food Service Managers	Industrial Machinery Mechanics	Lodging Managers	Media & Communication Workers, All Other	Private Detectives & Investigators	Tax Preparers	Transportation, Storage, & Distribution Managers	
Bachelor's degree continued																											
	○ ●	● ●	● ● ● ●	● ● ○ ● ●	● ● ● ○ ●	● ● ● ●	● ● ○ ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	○ ● ● ● ●	○ ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	○ ● ● ● ●	○ ● ● ● ●	○ ● ● ● ●	● ● ● ● ●	● ● ● ● ●	○ ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
	\$113,700	\$93,200	\$74,400	\$89,800	\$71,500	\$69,000	\$70,800	\$64,100	\$63,500	\$73,700	\$69,800	\$56,300	\$61,400	\$60,500	\$59,000	\$58,500	\$72,900	\$62,300	\$61,900	\$61,000	\$55,600	\$60,900	\$67,500	\$64,300	\$55,500	\$113,500	
	740	650	5,470	1,300	430	1,250	330	130	260	160	240	1,600	540	490	390	120	340	360	1,220	1,810	1,560	230	110	110	250	480	
Associate's degree																											
Postsecondary non-degree award																											
Some college, no degree																											
High school diploma or equivalent																											

Fast job growth ✓ Above average wages ✓ At least 100 expected annual job openings

Note: This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the Georgia Department of Labor and does not necessarily reflect the official position of the U.S. Department of Labor. This product is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.

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 Email: Workforce_Info@gdol.ga.gov

GEORGIA'S STEM Careers to 2030

Science | Technology | Engineering | Mathematics

Knowledge Understanding of principles and facts of subject matter ● full knowledge required ○ some knowledge required Education Typical education needed to enter an occupation 🔥 jobs have faster than state annual average job growth, above the state annual average wage, and have at least 100 annual openings.	Knowledge																Education			Occupational Characteristics				
	Administration and Management	Biology/Chemistry	Design/Build and Construction	Clerical/Customer and Personal Svc	Telecom/Communications and Media	Computers and Electronics	Economics and Accounting	Education and Training	Engineering and Technology	English Language	Law and Govt/Public Safety and Security	Mathematics	Mechanical/Production and Processing	Medicine and Dentistry	Personnel and Human Resources	Physics	Psychology/Sociology and Anthropology	Therapy/Counseling	Doctoral or Professional Degree	Master's Degree	Bachelor's Degree	HS Diploma/Assoc Degree/Some College	2021 Edition - Georgia Wage Estimates	2020-30 Annual Openings
Life and Physical Science, Engineering, Mathematics, and Information Technology Occupations																								
Aerospace Engineers			○			●		●	●	●	●	●									✓		\$117,900	170
Biological Science Teachers, Postsecondary	●	●	●	○	●	●	●	●	●	●	●	●	●	●					✓				\$93,800	90
Biological Scientists, All Other	●	●	○	○	●	●	●	●	○	●	●	●	●	●						✓			\$78,800	100
Biological Technicians		●			●			●	●	●	●	●	●	●						✓			\$49,600	250
Chemical Technicians		○			●			●	●	●	●	●	●	●							✓		\$54,100	290
Chemists		○	○		●			●	●	●	●	●	●	●							✓		\$90,400	140
Civil Engineering Technicians	●	●	●		●	●	●	●	●	●	○	●	●	●							✓		\$53,000	130
Civil Engineers	●	●	○		●	●	●	●	○	●	●	●	●	●							✓		\$84,300	580
Computer & Information Systems Managers	●		○		●	●	●	●	●	●	●	●	●	●							✓		\$154,900	1,320
Computer Hardware Engineers		●	○		●	●	●	●	●	●	●	●	●	●							✓		\$112,000	140
Electrical & Electronics Engineering Techs			○	○	●			●	●	●	●	●	●	●							✓		\$70,300	370
Electrical Engineers			○		●	●	●	●	●	●	○	●	●	●							✓		\$105,600	360
Electronics Engineers, Exc Computer			○	○	●			●	●	●	●	●	●	●							✓		\$105,600	300
Engineers, All Other	●	●	○	○	○	●	●	●	○	●	●	●	●	●							✓		\$105,500	630
Environmental Engineers	●	●	○	○	●			●	●	●	●	●	●	●							✓		\$89,300	130
Environmental Scientists & Specialists, Including Health 🔥	●	●	○		●			●	●	○	●	●	●	●							✓		\$78,600	260
Forensic Science Technicians		○			●			●	●	●	●	●	●	●							✓		\$52,300	90
Industrial Engineering Technicians			○	○	●			●	●	○	●	●	●	●							✓		\$66,600	140
Industrial Engineers 🔥	●	○	○		●	●	●	●	●	●	●	●	●	●							✓		\$90,400	660
Life, Physical, & Social Science Technicians, All Other	●	●	○		●	●	●	●	●	○	●	●	●	●							✓		\$59,700	170
Mechanical Drafters			○	○	●			●	●	●	●	●	●	●							✓		\$56,500	100
Mechanical Engineers	●	○	○	●	●	●	●	●	●	●	●	●	●	●							✓		\$95,800	400
Medical Scientists, Except Epidemiologists 🔥		●			●			●	●	●	●	●	●	●						✓			\$78,800	210
Operations Research Analysts 🔥	●				●	●	●	●	●	●	●	●	●	●							✓		\$74,200	360
Sales Engineers			○		●	●	●	●	●	●	●	●	●	●							✓		\$125,700	390
Sales Reps, Wholesale & Mfg, Tech & Scientific Products	●		○		●	●	●	●	●	○	●	●	●	●							✓		\$92,400	780
Surveying & Mapping Technicians			○	○	●			●	●	●	●	●	●	●							✓		\$48,500	180
Health Occupations																								
Cardiovascular Technologists & Technicians 🔥			○		●	●	●	●	●	●	●	●	●	●							✓		\$64,100	130
Chiropractors	●	○	○		●	●	●	●	●	●	●	●	●	○	●	✓							\$67,300	80
Dentists, General	●	○	○		○	●	●	●	●	●	●	●	○	●	✓								\$182,900	130
Diagnostic Medical Sonographers 🔥		○			●	●	●	●	●	●	●	●	○	○							✓		\$63,500	260
Dietitians & Nutritionists	●	●	●		●	●	●	●	●	●	●	●	●	○	●						✓		\$53,400	270
Health Specialties Teachers, Postsecondary 🔥	●	●	●	○	●	●	●	●	●	●	●	●	●	●	○	●	✓						\$127,300	690



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STEM ^{GEORGIA'S} Careers to 2030

Science | Technology | Engineering | Mathematics

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	Administration and Management	Biology/Chemistry	Design/Blg and Construction	Clerical/Customer and Personal Svc	Telecom/Communications and Media	Computers and Electronics	Economics and Accounting	Education and Training	Engineering and Technology	English Language	Law and Govt/Public Safety and Security	Mathematics	Mechanical/Production and Processing	Medicine and Dentistry	Personnel and Human Resources	Physics	Psychology/Sociology and Anthropology	Therapy/Counseling	Doctoral or Professional Degree	Master's Degree	Bachelor's Degree	HS Diploma/Assoc Degree/Some College	2021 Edition - Georgia Wage Estimates	2020-30 Annual Openings
Health Occupations Continued																								
Licensed Practical & Licensed Vocational Nurses	●	○		●				●	●	●	●		●				●	●			✓		\$46,500	2,230
Magnetic Resonance Imaging Technologists 🔥		○	○		●		●	●	●	○			●			●	○				✓		\$73,700	160
Nurse Anesthetists	●	●	○		●		●	●	●	●	●		●	●	○	○	●			✓			\$186,800	50
Nurse Practitioners 🔥		●	●	○	●		●	●	●	●	●		●			●	●			✓			\$110,500	1,250
Nursing Instructors & Teachers, Postsec 🔥	●	●		○	●		●	●	●	○	●		●			●	●		✓				\$75,000	110
Occupational Therapists 🔥		○	○				●	●					●			●	●		✓				\$92,500	280
Ophthalmic Medical Technicians				●	●		●	●	●				●								✓		\$35,900	110
Opticians, Dispensing	●							●	●		○										✓		\$40,700	180
Pharmacists	●	●		●	●			●	○	●	●					○	●		✓				\$123,600	470
Pharmacy Technicians				●				●			●										✓		\$33,400	1,160
Physical Therapists 🔥	●			●			●	●	●				●			○	●		✓				\$92,500	470
Physician Assistants 🔥		●	○		●		●	●	●				●			●	●		✓				\$108,400	520
Radiologic Technologists 🔥		○	●	●	●	●	●	●	○	●	●				●	○					✓		\$60,500	490
Recreational Therapists	●		○				●	●	○				●			●	●			✓			\$50,300	70
Registered Nurses 🔥		○	○		●		●	●	●	●	●					○	●			✓			\$74,400	5,460
Respiratory Therapists 🔥		●	○	●	●	●	●	●	●	●			●			○					✓		\$59,000	380
Speech-Language Pathologists 🔥			○				●	●	●	●			●			○	●		✓				\$81,300	400
Surgical Technologists			○				●	●					●								✓		\$49,900	330
Therapists, All Other			○				●	●								●	●			✓			\$64,200	80
Veterinarians 🔥	●	●	○				●	●	●	●			●						✓				\$99,700	120
Veterinary Technologists & Technicians		○	●				●	●	●	●			●								✓		\$35,600	320
Architecture Occupations																								
Architects, Exc Landscape & Naval	●		○		●	●	●	●	●	●	●		●							✓			\$102,000	290
Architectural & Civil Drafters			○		●		●	●	○	●											✓		\$59,100	200
Architectural & Engineering Managers	●	○	○		●		●	●	●	●	●		●							✓			\$154,500	340
Architecture Teachers, Postsec		●	○	●	●	●	●	●	●	●						●			✓				\$86,300	30
Landscape Architects	●	○	●	○	●	●	●	●	●	●											✓		\$78,700	50
Social Science Occupations																								
Psychologists, All Other	●		○				●	●	●							●	●		✓				\$100,800	90
Psychology Teachers, Postsec					●	●	●	●	●							●	●		✓				\$86,400	70
Social Science Research Assistants	●				●	●	●	●	●	●						●				✓			\$58,200	160
Social Scientists & Related Workers, All Other	●	●	*				●	●	*	●										✓			\$94,600	190
Survey Researchers	●		*	*	●			●	●						*				✓				\$56,300	70
Urban & Regional Planners	●		*	*	*		●	●	●	●				●	*				✓				\$66,500	100

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ADDITIONAL OPPORTUNITIES

INDUSTRY CERTIFICATION, NON-TRADITIONAL AND RESOURCES

CTE INDUSTRY CERTIFICATION

When a program becomes industry certified, it receives 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.

This formal process strengthens all program components, including:

- *Classrooms and labs which are equipped with state-of-the-art equipment and technology;*
- *CTE and academic performance standards that are aligned to national standards;*
- *In-depth, project-based instruction in all curriculum areas;*
- *Appropriate and varied Career Related Education (CRE) instruction, including 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.*

The following Fayette County CTE Programs are industry certified: FCHS's Automotive Program is NATEF certified, SMHS's Early Childhood Education Program is NAEYC nationally certified, and SMHS's Health Science Program is industry certified.

NON-TRADITIONAL OCCUPATIONS

Nontraditional careers are those occupations or fields of work for which individuals from one gender comprise less than 25% of the individuals employed. Students are encouraged to enroll in courses that fit their career goals regardless of the gender make-up in the classroom. Some examples of nontraditional careers are:

- *Nursing for males*
- *Engineering for females*
- *Education for males*
- *Automotive for females*

CAREER PLANNING RESOURCES

www.GAfutures.org

GAfutures is an internet site for planning, paying, and applying for college.

<https://www.careeronestop.org>

The Career One Stop website is sponsored by the U.S. Department of Labor and is your source for career exploration, training and jobs.

<https://www.bls.gov/ooh/>

The Occupational Outlook Handbook is a nationally recognized source of career information. It describes what workers do on the job, working conditions, the training and education needed, earnings, and expected job prospects. The handbook covers a wide range of occupations.

www.Myplan.com

MyPlan.com is a career database which allows visitors to search, browse or query through over 900 different careers, read career profiles, job descriptions, and educational requirements, and explore career outlooks.



FAYETTE COUNTY

WORK BASED LEARNING

ADDITIONAL OPPORTUNITIES

WORK-BASED LEARNING

The Work-Based Learning (WBL) program is designed to provide student internships and apprenticeships that support a school to career transition. 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 application requirements for WBL, the WBL Coordinator will determine the correct WBL placement for the student. The students will earn one unit of elective credit for each completed WBL course.

REQUIREMENTS FOR WBL

- Students who have completed or are completing any Pathway can apply for the Work-Based Learning Program
- Students must be at least 16 years of age
- Students must have good attendance, discipline, and teacher recommendations

EMPLOYABILITY SKILL DEVELOPMENT (ESD)

- Paid entry level work
- Limited to one year
- May or may not be linked to a specific pathway
- Must have completed or be currently enrolled in any related pathway courses

INTERNSHIP

- Can be paid or unpaid work experience
- Must have earned one credit in a CTE pathway or closely related academic course related to the placement

COOPERATIVE EDUCATION (CO-OP)

- Paid work experience
- Directly related to student's career pathway
- Currently enrolled in a course that is directly related to job placement

YOUTH APPRENTICESHIP (YAP)

- Paid work in a job classified as highly skilled in business and industry
- Work in chosen career area
- Student must have post-secondary education plans in chosen career area (earning a degree, licensing, or certification depending on career requirement)
- For completion of YAP program students must have 720 hours on-the-job training

CONTACT INFORMATION

Melanie Duncan
 Coordinator, Work Based Learning & Youth Apprenticeship
 250 South Peachtree Parkway, Peachtree City, GA 30269
 770.716.1209
duncan.melanie@fcboe.org

WBL IS RELATED TO THE FOLLOWING

- Advanced Academic Pathways
- Architecture and Construction
- Arts, A/V Technology, & Communications
- Business Management and Administration
- Education and Training
- Finance
- Fine Arts Pathways
- Government and Public Administration
- Health Science
- Human Services
- Information Technology
- JROTC
- Law, Public Safety, Corrections & Security
- Marketing
- Science, Technology, Engineering & Mathematics
- Transportation Distribution & Logistics
- World Language Pathways

ADDITIONAL OPPORTUNITIES



DECA Formerly Distributive Education Clubs of America

DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe. DECA is a co-curricular marketing organization for students who have a career interest in marketing, finance, hospitality and tourism, entrepreneurship, management, or business administration. DECA allows students to compete and learn about marketing skills needed to be successful in today's business world. DECA currently operates in the over 4,000 high schools in many different countries including Mexico, Germany, Puerto Rico, and Canada. As an organization, DECA holds an annual Fall Leadership Conference that sharpens the skills and techniques of the attendees. At the annual state conference, students are also allowed to compete in a range of areas including Sports and Entertainment Marketing, Apparel and Accessories, Automotive, Restaurant Management, Accounting and many more. There is over \$300,000 of scholarship money from DECA's corporate sponsors available to its members. DECA gives students the chance to work with real business partners and can open the door for future employment opportunities. DECA allows its members to grow as leaders who can positively impact their community.



FBLA Future Business Leaders of America

Georgia FBLA is a nonprofit business and computer science student organization committed to preparing today's students for success in business leadership. With over 50 years of experience, Georgia FBLA is the premiere organization for student leaders.

Georgia FBLA is an affiliate of Future Business Leaders of America-Phi Beta Lambda, Inc., the largest student business organization in the world with more than 250,000 members. Georgia is also the largest FBLA chapter in the nation with over 20,000 members.

FBLA is an important partner in the success of school-to-work programs, business education curriculums, and student leadership development. FBLA is recognized by the U.S. Department of Education and Labor as an integral part of a co-curricular approach to business and leadership education.

The FBLA mission is to bring business and education together in a positive working relationship through innovative leadership and career development programs. We bring our mission to life through the application of our motto: Service, Education, and Progress.

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

CTSO CORE VALUES

Career and Technical Student Organizations (CTSO) are designed to build character and develop leadership abilities of high school students. CTSO's promote active community involvement, providing service to others, and participation in competitive events with other high school students across the state. Involvement in CTSO's provide valuable life lessons and educational experiences to prepare students for success in today's society.

Commitment *To create among members, educators and business and industry an adherence and appreciation for all Career, Technical and Education Programs.*

Conviction *To develop patriotism through knowledge of our nation's heritage and practice of democracy.*

Education *To create enthusiasm and empower students to become lifelong learners.*

Integrity *To deal honestly and fairly with one another.*

Leadership *To develop leadership abilities through participation in educational, professional, community and social activities.*

Professionalism *To promote high standards in career ethics, workmanship, scholarship and safety.*

Recognition *Appreciation of the value of achievement.*

Service *To cultivate a desire to contribute to the benefit and welfare of others*

Teamwork *To enhance the ability of students to plan together, organize and carry out worthy activities and projects through the use of the democratic process.*

ADDITIONAL OPPORTUNITIES - CTSO



FCCLA Family, Career, and Community Leaders of America Family and Consumer Science Education

FCCLA is a national family and consumer science education student organization that helps young men and women become leaders and address important personal, family, work, and social issues through family and consumer sciences education. Through cooperative and competitive programs, FCCLA members develop skills for life including character development, creative and critical thinking, interpersonal communication, practical knowledge, and career preparation. Participation in national programs and co-curricular chapter activities enables FCCLA members to learn cooperation, take responsibility, develop leadership, and give service.



FIRST ROBOTICS For Inspiration and Recognition of Science and Technology

Georgia FIRST Robotics vision is to see kids excited about science and technology, have them attend one of our prestigious institutes of higher learning, and upon graduation, stay in Georgia for their careers. By doing this, we can 'put Georgia first.' Our best resource, our youth, contribute to the growth and sustainability of our innovative workforce.



HOSA Future Health Professionals

HOSA provides a unique program of leadership development, motivation, and recognition exclusively for secondary, postsecondary, middle school, adult, and collegiate students enrolled health science education and biomedical science programs or have interests in pursuing careers in health professions. HOSA is 100% health care!

The mission of HOSA is to enhance the delivery of compassionate, quality health care by providing opportunities for knowledge, skill and leadership development of all health occupations education students, therefore helping the students to meet the needs of the health care industry. For more information, go to www.hosa.org or www.georghosa.org.



SKILLSUSA Students Taking Action with Recognition

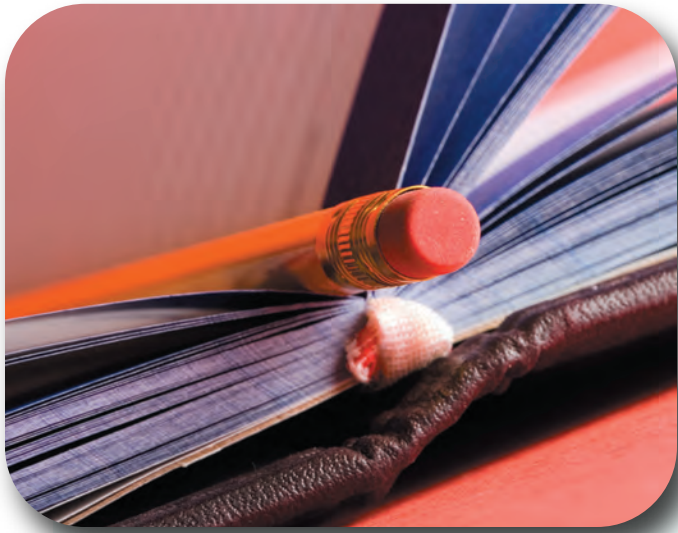
Georgia SkillsUSA members participate in local, state, and national activities provided through trade and industrial, technical, and health occupations courses and programs. This includes drama, communication, broadcasting and graphic arts students. The mission of SkillsUSA is to develop leadership skills and workplace competencies that students will need to succeed in a constantly changing global workplace. The organization provides many opportunities for leadership development and skills training. Competition in over 70 leadership, health occupations, occupationally related, and trade, industrial, and technical contests is offered at the region and state levels, culminating with the SkillsUSA Championships.



TSA Technology Student Association

Georgia Technology Student Association (GA TSA) is committed to providing students with opportunities to excel and advance as part of their instruction in engineering and technology education. Georgia TSA promotes technology education as a means of preparing students for a dynamic world, inviting them to become critical thinkers, problem solvers, and technologically literate leaders. The mission of GA TSA is to prepare its members to be successful leaders and responsible citizens in a technological society through co-curricular activities with the technology education program, thereby developing communication, leadership, and competitive skills.

Also offered at Bennett's Mill Middle School and Rising Starr Middle School.



CTE FOURTH SCIENCE OPTIONS



The following courses are typically considered Career, Technical, and Education (CTE) Courses. The State Department of Education along with the University System of Georgia have determined that these courses may also be used to fulfill certain graduation and college admission requirements. If you have any questions, please talk with your student's high school counselor.

COURSE NAME	Counts as 4th Science for Graduation	Counts as 4th Science to a 4 yr. College	Counts as 4th Math for Graduation	World Language Credit for Graduation Electives ONLY
* Advanced Placement Computer Science	X	X	X	X
* Advanced Placement Computer Science Principles	X	X	X	X
Aerospace Science: Flight Science	X	X		
* Computer Science Principles	X	X	X	X
Essentials of Healthcare	X	X		
Food for Life	X	X		
Food Science	X	X		
Forensic Science and Criminal Investigation	X	X		
* Programming, Games, Apps and Society	X	X	X	X

* Two computer courses from the same pathway will satisfy two years of required sequenced World Language Courses for USG admissions.



Point
UNIVERSITY

Middle Georgia
State University



INFORMATION REGARDING DUAL ENROLLMENT AT FAYETTE COUNTY SCHOOLS

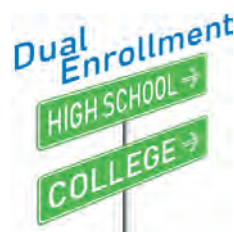
The Dual Enrollment (DE) Program provides Fayette County students the opportunity to take post-secondary coursework for credit towards both high school graduation and post-secondary requirements. The program is offered during all terms of the school year; fall, spring, and summer semesters or fall, winter, spring, and summer quarters.

There are several benefits for students who participate in Dual Enrollment:

- *Introduces students to college-level coursework.*
- *Earning college credits while still in high school may enable students to graduate early and/or possibly even earn an associate degree, diploma or certificate.*
- *Helps students adjust to certain aspects of the college experience (e.g., classes, coursework, instruction, being on a college campus) so the transition from high school to college may be easier.*
- *Students who participate in a dual enrollment program are more likely to go to college and get a college degree.*
- *Students may be able to take classes that are not offered at their high school, especially in subject areas they are interested in for a potential career.*
- *Participating in a dual enrollment program demonstrates a student's ability to handle more difficult coursework which is something college admissions officers may look upon favorably during admissions and recruiting.*
- *Taking college-level classes while still in high school may build confidence and encourage those students who may not be thinking about college to reconsider.*

The DE program allows students to pursue post secondary study at approved public and private colleges and technical colleges while receiving dual high school and college credit for courses successfully completed. Courses pursued by students under this program must come from the approved course directory available at the Georgia Futures website www.gafutures.org.

DUAL ENROLLMENT



All Fayette County students who wish to participate in Dual Enrollment must follow the Fayette County Dual Enrollment Mandatory steps outlined at fcboc.org/domain/71.

CENTER OF INNOVATION (COI)

Fayette County School System's Board of Education has partnered with Clayton State University and Southern Crescent Technical College and Middle Georgia State University to offer dual enrollment opportunities at the COI. Dual Enrollment courses are offered in the following career clusters: film, health science and information technology -- see Table of Contents.

COI Bus Transportation

- Students enrolled in a first block (8:00/8:45-10:00) class MUST provide their own transportation to the COI.
- Bus transportation is only provided at the following times:
 - from COI at 10 am (end of 1st block) to home school
 - to and from the home school and the COI for the 12:15-1:30 (2nd block)
 - from home school (start of 3rd block) to COI
 - students enrolled in a third block (2:30-3:45) class MUST provide their own transportation home
- Bus routes are based on student requests at the beginning of each semester. Route additions will NOT be made during the semester.



CAREER CLUSTERS

These are the 12 Career Clusters currently offered in the Fayette County School System.

ARTS, A/V TECHNOLOGY AND COMMUNICATIONS

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.

BUSINESS MANAGEMENT AND ADMINISTRATION

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.

EDUCATION AND TRAINING

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

FINANCE

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.

GOVERNMENT AND PUBLIC ADMINISTRATION

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.

HEALTH SCIENCE

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.

HUMAN SERVICES

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.

INFORMATION TECHNOLOGY

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.

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

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

MARKETING

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.

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM)

Careers with common knowledge and skills related to planning, managing, and providing scientific research and professional and technical services.

TRANSPORTATION DISTRIBUTION AND LOGISTICS

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.



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 Education (CTE) provides students with the opportunity to select at least three sequenced courses in a career pathway.

CTE PATHWAY COMPLETER: A CTE pathway completer is a student who successfully completes all three courses in an approved DOE CTAE pathway.

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

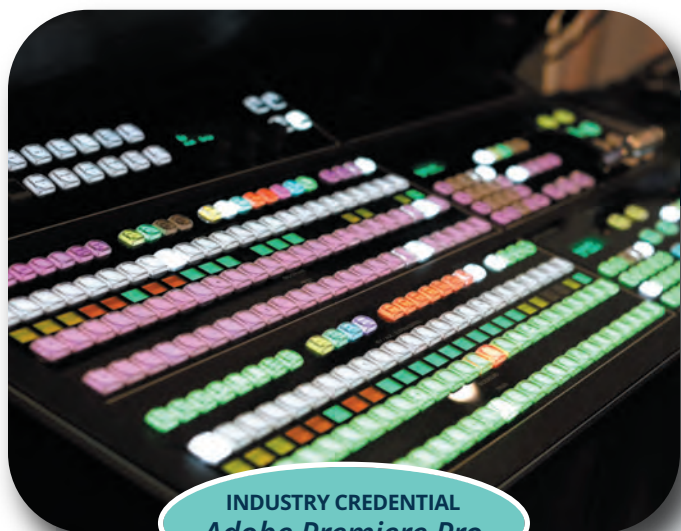
Implementation of career pathways is a collaborative effort between the Fayette County Public Schools, the Georgia Department of Education, the Technical College System of Georgia and the University System of Georgia.

CAREER PATHWAYS

OVERVIEW OF CAREER CLUSTERS PATHWAYS

- Georgia's 17 Career Cluster/Pathways provide a structure for organizing and delivering quality Career, Technical and Education (CTE) programs.
- Modeled after the National Career Clusters configuration utilized by most of the United States, Georgia's 17 Career Cluster/Pathways Model represents approximately 96 career pathways to help students navigate their way to greater success in college and career.
- As an organizing tool for curriculum design and instruction, the 17 Career Clusters provide essential knowledge and skills for the students' career pathways.
- This model functions as a:
 - *Useful guide in developing programs of study that bridge secondary and postsecondary curriculum.*
 - *Indicator of a range of career options for students' graduation plans of study.*
 - *Method of allowing students to discover their interests and passions, empowering them to choose the educational pathway that may lead to success in high school, college and career.*
- The 17 Career Cluster/ Pathways encompass both secondary and postsecondary education and will strengthen and improve student transition from secondary to postsecondary education.

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS CLUSTER



INDUSTRY CREDENTIAL
Adobe Premiere Pro

The Audio-Video Technology and Film classes teach all aspects of video/film production from pre-production, to production, to post-production. Working cooperatively and independently students will have the opportunity to participate in a variety of hands-on productions where they will learn about topics such as advanced camera techniques, audio production, scriptwriting, producing, directing, and editing.



PATHWAY I COURSES

1. Audio and Video Technology and Film
2. Audio and Video Technology and Film II
3. Audio and Video Technology and Film III
4. Georgia Film Academy and SCTC Film DE Courses



PATHWAY II COURSES

1. Audio and Video Technology and Film
2. Audio and Video Technology and Film II
3. Broadcast Video Production Application
4. Georgia Film Academy and SCTC Film DE Courses

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Technical Studies
- Telecommunications Arts
- Broadcast Design
- Journalism and Broadcasting
- Mass Communications
- Mass Media/Arts
- Public Relations
- Video/Digital

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- SkillsUSA

AUDIO/VIDEO TECHNOLOGY AND FILM (AVTF) I AND II PATHWAYS

FUTURE CAREER CHOICES

Art Director
Audio Engineer
Audio-Video Equipment Technician
Audio-Video Operator
Broadcast Field Supervisor
Broadcast News Analyst
Broadcast Technician
Camera Operator
Chief Engineer
Control Room Technician Editor
Journalist
Radio and TV Announcer
Reporter
Sound Engineer
Station Manager
Transmission Engineer

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS CLUSTER



FILM PRODUCTION PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Art Director
Casting
Distribution and Marketing
Editing
Location Scout
Wardrobe
Visual Effects

Pathway of social, ethical, and human issues related to technology.

PATHWAY COURSES

1. Audio and Video Technology and Film
2. Intro to Film Production
3. Film Production Application

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

•

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- SkillsUSA



INDUSTRY CREDENTIALS
 Technical Certificate of Credit
 Georgia Film Academy

The film industry in Georgia is booming - currently ranked third in the nation and fifth in the World for number of productions (behind Hollywood and New York). Industry growth over the next 3-5 years is projected to generate 3,000 - 5,000 new jobs in Georgia, most of which are on the set. The average earnings in these jobs are \$84,000 a year. However, getting into the industry is not easy. On-set film workers need a very specific set of skills attained by working on industry-standard equipment as well as experience on professional productions.

Students will be introduced to the skills used in on-set film production, including all forms of narrative media which utilize film-industry standard organizational structure, professional equipment and on-set procedures. The courses will also include demonstrations of equipment, set operations, as well as hands-on learning experiences. Students will learn: film production organizational structure, job descriptions and duties in various film craft areas, names, uses and protocols related to various pieces of professional on-set film equipment, about scheduling and budgeting, crew responsibilities and location logistics and organizational expectations. In addition, students will learn skills related to networking and self-marketing.

Courses are offered through Southern Crescent Technical College and Georgia Film Academy at Trilith.

GEORGIA FILM ACADEMY AND SCTC FILM OPTION

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

- Animator
- Artist
- Background Artist
- Best Boy Electric
- Best Boy Grip
- Cinematographer
- Costumer Designer/Tailor
- Film Department Head
- Flash Animator
- Fork Lift Operator
- Mobile Application Developer
- Painter
- Plasterer
- Set Builder
- Special Effects Technician
- Specialty Technician
- Story Boarder
- Stunt Team Member





ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS CLUSTER

ANIMATION AND DIGITAL MEDIA PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Animation Producer
 Artists and Related Worker
 Artistic Director
 Camera Operator
 Film and Video Editor
 Graphic Designer
 Special Effects Artist and Animator
 3D Animator
 TV Director
 TV Producer

The Animation and Digital Media Pathway is a series of courses that teach all aspects of 2D and 3D animation and digital design. Students will gain knowledge in animation history, basic modeling, storyboarding concepts, game development and fundamentals of motion while working to incorporate effective sound and lighting techniques, as well as 3-D space morphing into their animated projects. Working independently, as well as on small production teams, students will learn to manage the entire production pipeline for 3-D projects. Students in the Animation and Digital Media Pathway will have the opportunity to become effective and efficient multi-skilled animators as they develop a thorough working knowledge of the animation opportunities available in a rapidly growing career field.

PATHWAY COURSES

1. Introduction to Digital Media
2. Principles and Concepts of Animation
3. Advanced Animation, Game, and App Design
4. Animation Practicum Capstone

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

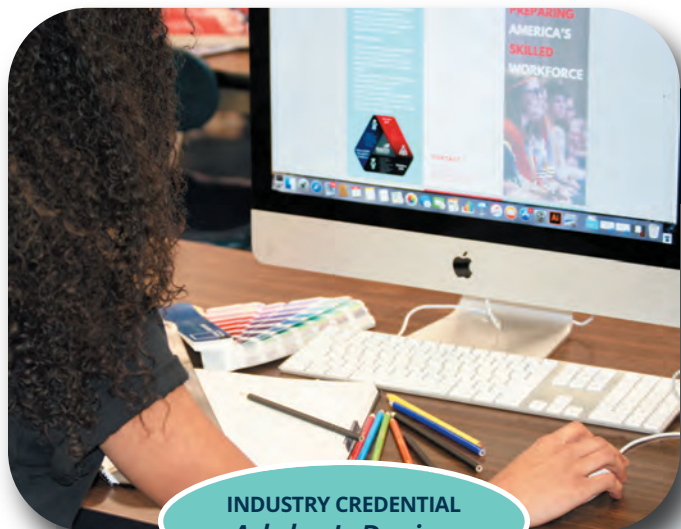
- Animation School - Varying Certificates available
- Intern experience

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- SkillsUSA

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS CLUSTER

GRAPHIC COMMUNICATION PATHWAY



INDUSTRY CREDENTIAL
Adobe InDesign

Graphic Communications allows the students to perform a variety of tasks. Students will experience basic introduction to graphic communications. Activities include making notepads, business cards, brochures, postcards, cover designs and promotional materials, invitations, and more. Many students will be a part of the ever increasing need for work used by local schools and businesses.

PATHWAY COURSES

1. Introduction to Graphics and Design
2. Graphic Design and Production
3. Advanced Graphic Output Processes

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Art
- Graphic Communications Management
- Graphic Design
- Industrial Design
- Photography
- Prepress and Production
- Product Design

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- SkillsUSA

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Bindery and Finishing Technician
 Commercial and Industrial Designer
 Customer Service Representative
 Graphic Designer
 Media and Communications Worker
 Prepress Imaging Specialist
 Press Operator
 Public Relations Specialist
 Screen Printer
 Shipping and Distribution Manager

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS CLUSTER

GRAPHIC DESIGN PATHWAY



INDUSTRY CREDENTIAL
Adobe Illustrator

Graphic Design is the art and practice of visually communicating ideas and experiences that have visual and contextual content. The form of communication can be physical (printed) or virtual (screen); and, may include images, words, and/or graphic forms. Intro to Graphics and Design is an introduction to the principles and processes of graphic design using creative problem solving skills. Graphic Design and Production explores printing processes including digital printing, screen printing, and offset printing. For the third level of the pathway, students decide between one of two courses: Advanced Graphic Design or Advanced Graphic Output Processes.

PATHWAY COURSES

1. Introduction to Graphics and Design
2. Graphic Design and Production
3. Advanced Graphic Design

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Graphic Design
- Industrial Design
- Prepress and Production
- Printmaking
- Product Design

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- SkillsUSA

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Advertising and Promotions Manager
Art Director
Commercial and Industrial Designer
Creative Designer
Fashion Designer
Film and Video Editor
Graphic Designer
Illustrator
Interior Designer
Multimedia Artist and Animator
Photographer
Production Artist
3D Animator
User Experience Designer

BUSINESS MANAGEMENT AND ADMINISTRATION 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.

PATHWAY COURSES

1. Introduction to Business and Technology
2. Legal Environment of Business
3. Entrepreneurship

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Business Administration and Management
- Business Office Technology
- Entrepreneurship
- Hospitality Industry
- Management and Supervisory Development
- Office Administration

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

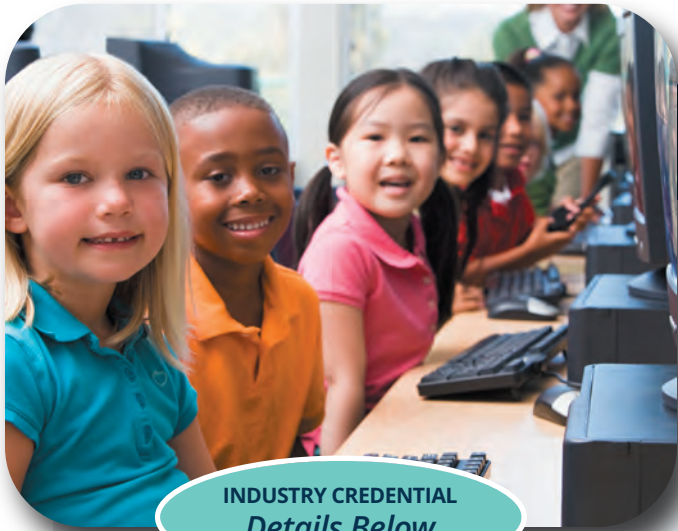
- FBLA
- SkillsUSA

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Accountant and Auditor
 Administrator
 Advertising and Promotion Manager
 Appraiser and Assessor of Real Estate
 Bank Teller
 Business Educator
 Chief Executive Officer
 Claims Adjuster
 Claims Examiner
 Computer Support Specialist
 Computer Systems Analyst
 Cost Estimator
 Database Administrator
 Employment and Recruitment Specialist
 Entrepreneur
 Financial Analyst
 Financial Manager
 Investigator
 Network and Computer Analyst
 Paralegal and Legal Assistant
 Personal Financial Advisor
 Sales Manager
 Social and Community Service Manager
 Tax Preparer
 Training and Development Manager



INDUSTRY CREDENTIAL
Details Below

Preschool, kindergarten and elementary school teachers play a vital role in the development of children. They introduce children to math, language, science and social studies. They use games, music, artwork, films, books, computers and other tools to teach basic skills. Teachers design classroom presentations to meet students' needs and abilities. They also work with students individually. They are responsible for planning, evaluating, and creating lesson plans.

PATHWAY COURSES

1. Early Childhood Education I
2. Early Childhood Education II
3. Early Childhood Education Practicum

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Child Care
- Child Development Associate Credential (CDA)
- Early Childhood Care and Education
- Infant-Toddler Childcare Specialist

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FCCLA

INDUSTRY CREDENTIAL

Students who successfully pass all three Early Childhood Care and Education II Pathway courses, complete a portfolio as part of the pathway's course requirements, and pass the statewide End of Pathway Assessment, may be eligible for three college credit hours in lieu of EDUC 2110.

**EDUCATION AND
TRAINING CLUSTER**

**EARLY CHILDHOOD
CARE AND
EDUCATION II
PATHWAY**

THIS PATHWAY IS OFFERED AT

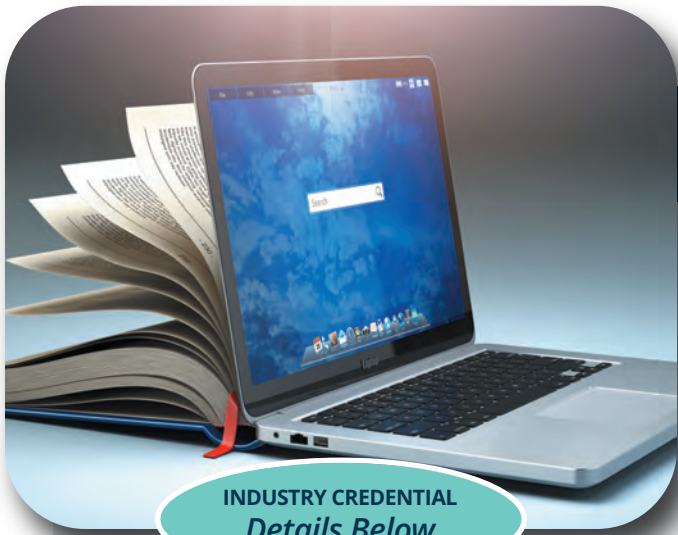


FUTURE CAREER CHOICES

After-School Program Supervisor
 Child Care Administrator
 Child Care Director and Owner
 Child Care Supervisor
 Child Life Specialist
 Education Administrator
 Elementary School Teacher
 Kindergarten Teacher
 Paraprofessional
 Preschool Teacher
 Recreation Attendant
 Special Education Teacher
 Teacher Assistant
 University Instructor and Professor

EDUCATION AND TRAINING CLUSTER

TEACHING AS A PROFESSION PATHWAY



INDUSTRY CREDENTIAL Details Below

Educational services is the second largest industry which includes a variety of institutions that offer academic education or career and technical instruction. This includes elementary, middle and secondary schools, universities, colleges, professional schools, community or junior colleges and career and technical institutes. The overall demand for educational services will increase as growing emphasis on improving education along with retirements will create large numbers of job openings.

PATHWAY COURSES

1. Examining the Teaching Profession
2. Contemporary Issues in Education
3. Teaching as a Profession Practicum

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Child Care and Development
- Early Childhood
- Education of the Gifted
- Elementary, Middle and High School Education
- Health and Physical Education
- Infant-Toddler Care Specialist
- Professional School Counseling
- School Psychology

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FCCLA

INDUSTRY CREDENTIAL

Students who successfully pass all three Teaching as a Profession Pathway courses, complete a portfolio as part of the pathway's course requirements, and pass the statewide End of Pathway Assessment, may be eligible for three college credit hours in lieu of EDUC 2110.

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

- Adult Educator
- After-School Program Supervisor
- Associate Teacher
- Coach
- County Extension Agent
- Education Evaluator
- Educational and Teacher Aide
- Elementary School Teacher
- High School Teacher
- Media Specialist
- Middle School Special Education Teacher
- Middle School Teacher
- Post-Secondary Education Administrator
- Post-Secondary Instructor/Professor
- Recreation Attendant
- School Administrator
- School District Administrator
- Secondary School Teacher
- Social Services Aide
- Special Education Teacher

FINANCE CLUSTER

FINANCIAL SERVICES PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Accountant
 Auditor
 Banker
 Budget Analyst
 Business Education Teacher
 Claims Adjuster
 Financial Analyst
 Financial Planner
 Financial Project Specialist
 Insurance Sales Agent
 Investment Banker
 Loan Officer
 Salesperson
 Tax Associate



The Financial Service Pathway uses project based instruction to introduce students to the basics of the banking system, bank operating procedures, negotiable instruments, and the deposit and credit functions of banks. Methods used for measuring the financial performance of banks are analyzed. Current issues and future trends in banking are examined. 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.

PATHWAY COURSES

1. Introduction to Business and Technology
2. Financial Literacy
3. Banking, Investing and Insurance

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Accounting
- Business Administration-Financial Analysis
- Business Technology
- Consumer and Family Financial Services
- Financial Planning
- Office Accounting Specialist

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FBLA

GOVERNMENT AND PUBLIC ADMINISTRATION CLUSTER

JROTC AIR FORCE PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Aerospace Medicine Specialist
 Aerospace Propulsion
 Air Traffic Controller
 Aircraft Repairer
 Airlift/Special Mission Aircraft Maintenance
 Chaplain
 Computer Systems Programmer
 Criminal Investigation Special Agent
 Dental Assistant
 Engineering Specialist
 Fleet Management and Analysis Specialist
 Flight Engineer
 Finance Officer
 Information Systems Technician
 Interpreter and Translator
 Medical Laboratory Specialist
 Missile and Space Systems Maintenance
 Nuclear and Missile Operations Officer
 Operations Intelligence Specialist
 Operations Research Analyst
 Pararescue
 Personnel Specialist
 Pilot
 Security Forces
 Sensor Operator
 Special Forces
 Special Investigations
 Targeting Analyst
 Transportation Management Coordinator
 Visual Information Equipment Operator

The AFJROTC program provides citizenship training and an aerospace science program for high school youth. Enrollment in the AFJROTC program is open to all young people who are in grades 9-12, physically fit, and are United States citizens. The curriculum includes Aerospace Science (AS), Leadership Education (LE) and Wellness. All students will be given academic credit towards graduation for successful completion of the AFJROTC courses provided by the Air Force.

PATHWAY COURSES

1. Aerospace Science: Aviation History and Leadership 100
2. Aerospace Science: Flight Science and Leadership 200
3. Aerospace Science: Cultural Studies and Leadership 300
4. Aerospace Science: Corps Management and Leadership 400

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Academy Appointments
- Active Reserve and National Guard options available
- Air Force JROTC Drill Team (Armed and Unarmed)
- Armed Forces (Advanced Placement Enlistment Opportunities) Army, Air Force, Marines, Navy, Coast Guard
- Raiders Team
- ROTC (Scholarships Available)

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Air Force JROTC Drill Team (Armed)
- Air Force JROTC Drill Team (Unarmed)
- Field Trips to Aviation Museums, National Drill Competitions, Quiz Bowl, etc.
- Raiders Team

GOVERNMENT AND PUBLIC ADMINISTRATION CLUSTER

JROTC ARMY PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Air Traffic Controller
 Aircraft Repairer
 Broadcast Specialist
 Cavalry Scout
 Chaplain
 Computer and Detection Repairer
 Construction Equipment Repairer
 Criminal Investigation Special Agent
 Equipment Repairer
 Finance Officer
 Health Care Specialist
 Human Resource Specialist
 Information Technology Specialist
 Intelligence Analyst
 Interpreter and Translator
 Medical Laboratory Specialist
 Military Police Officer
 Missile Fire Control Operator
 Missile Fire Control Maintainer
 Signal Intelligence Analyst
 Special Forces
 Technical Engineer
 Transportation Management
 Visual Information Operator



The program's focus is reflected in its mission statement, "To Motivate Young People to be Better Citizens." It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. Army 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.

PATHWAY COURSES

1. JROTC Army Leadership Education I
2. JROTC Army Leadership Education II
3. JROTC Army Leadership Education III
4. JROTC Army Leadership Education IV

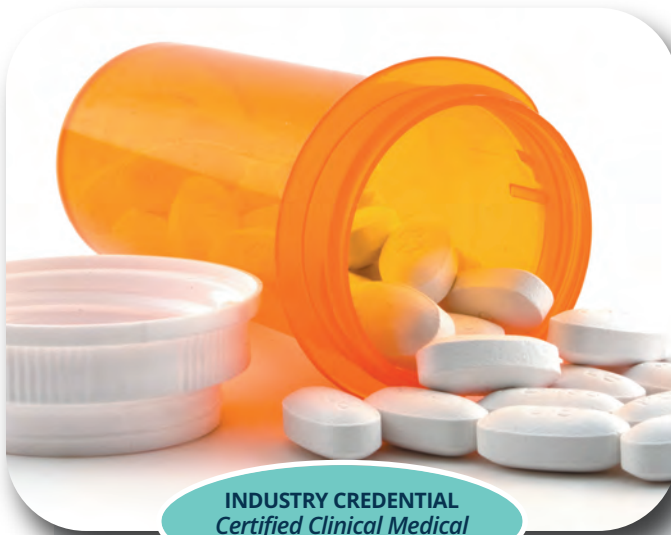
EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Academy Appointments
- Active Reserve and National Guard options
- Armed Forces (Advanced Placement Enlistment Opportunities) Army, Air Force, Marines, Navy, Coast Guard
- Athletic Team
- Orienteering Team
- ROTC (Scholarships Available)

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Academic Team
- Color Guard
- Drill Team
- Raiders
- Rifle Team

HEALTH SCIENCE CLUSTER



INDUSTRY CREDENTIAL
Certified Clinical Medical Assistant

The healthcare industry offers jobs in a variety of establishments: hospitals, nursing and residential care facilities, physicians, dental, and other health practitioners offices, home health care services, outpatient care centers, ambulatory health care services and medical and diagnostic laboratories.

IMPORTANT INFORMATION

- This class is limited to 25 students (5 from each high school) - see the health science teacher at your school for an application.
- Bus transportation is NOT provided.
- Students MUST provide their own transportation to and from clinicals (during regularly scheduled class time).
- Students MUST meet all the clinical site requirements (ie. necessary vaccinations)

PATHWAY COURSES

1. Introduction to Healthcare Science
2. Essentials of Healthcare
3. Allied Health and Medicine
 FCBOE course (Center of Innovation)

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Certified Clinical Medical Assistant (CCMA)
- Certified Medical Assistant (CMA)
- National Certified Medical Assistant (NCMA)
- Nurse Aid
- Nurse Practitioner
- Practical Nursing
- Radiologic Technology
- Registered Medical Assistant (RMA)
- Surgical Technology

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- HOSA

THERAPEUTIC SERVICES ALLIED HEALTH AND MEDICINE PATHWAY

THIS PATHWAY IS OFFERED AT**FUTURE CAREER CHOICES**

Clinical Laboratory Technician
 Emergency Medical Technician (EMT)
 Licensed Practical Nurse (LPN)
 Medical and Clinical Laboratory Technician
 Medical Doctor
 Medical Laboratory Technician
 Orthopedic Technologist
 Paramedic
 Pediatrician
 Pharmacist
 Physical Therapist
 Nurse's Assistant
 Nurse Practitioner
 Radiologic Technologist
 School Nurse
 Surgical Technologist

HEALTH SCIENCE CLUSTER



INDUSTRY CREDENTIALS
 Technical Certificate of Credit
 Certified Nurse Assistant

The Patient Care pathway is appropriate for students wishing to pursue a career in the Healthcare Industry. The course will enable students to receive initial exposure to Healthcare Science skills and attitudes applicable to the healthcare industry. The concepts of health, wellness, and preventative care are evaluated, as well as, ethical and legal responsibilities of today's healthcare provider. Fundamental healthcare skills development is initiated including medical terminology, microbiology, and basic life support.

IMPORTANT INFORMATION

- Third year courses are dual enrolled. See additional DE information at fcboe.org/domain/71.
- Bus transportation to the COI is detailed on page 21.
- Students MUST provide their own transportation to and from clinicals (weekends).

PATHWAY COURSES

1. Introduction to Healthcare Science
2. Essentials of Healthcare
3. Patient Care Fundamentals
 - Dual Enrollment Courses with SCTC (Center of Innovation)
 - ALHS 1040 Introduction to Health Care
 - ALHS 1090 Medical Terminology (may be offered via Essentials of Healthcare at the high school)
 - ALHS 1060 Diet and Nutrition for AHS
 - NAST 1100 Nurse Aide Fundamentals

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Dental Hygiene
- Dentist, Doctor, Surgeon
- Nurse Practitioner
- Orthopedic Technology
- Physical Therapist
- Radiologic Technology
- Registered Nurse

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- HOSA

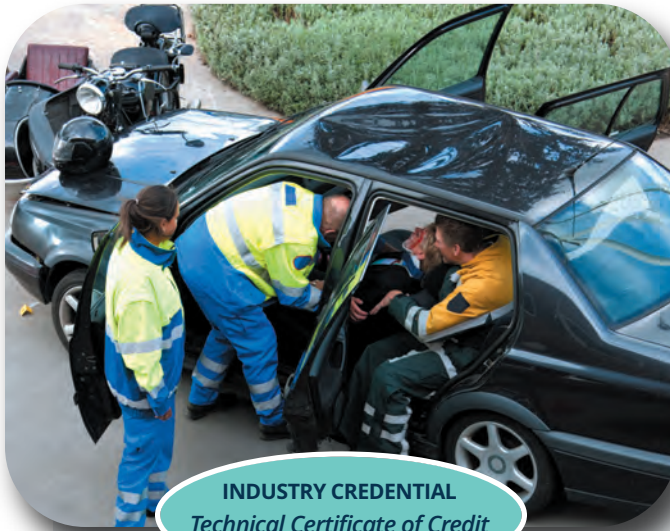
THERAPEUTIC SERVICES PATIENT CARE PATHWAY

THIS PATHWAY IS OFFERED AT**FUTURE CAREER CHOICES**

Certified Nursing Assistant
 Dental Assistant
 Licensed Practical Nurse
 Medical Assistant
 Nurse Practitioner
 Occupational Therapist
 Physician Assistant
 Physical Therapy Assistant
 Registered Nurse
 Respiratory Therapist
 Surgical Technologist

NOTE: Students enrolled in this program may be required to provide proof of vaccination, including the COVID-19 vaccination, prior to attending required off site clinical rotations. On site clinical requirements must be met by students to participate in clinical rotations.





INDUSTRY CREDENTIAL
Technical Certificate of Credit

Students are prepared to provide initial stabilizing care to the sick or injured prior to the arrival of Emergency Medical Services Professionals (EMS), and to assist EMS personnel in transporting patients for definitive care at an appropriate hospital/facility.

IMPORTANT INFORMATION

- Third year courses are dual enrolled. See additional DE information at fcboe.org/domain/71.
- Bus transportation to the COI is detailed on page 21.
- Students MUST provide their own transportation to and from clinicals (weekends).

PATHWAY COURSES

1. Introduction to Healthcare Science
2. Essentials of Healthcare
3. Emergency Medical Responder
 - Dual Enrollment Courses with SCTC (Center of Innovation)
 - ALHS 1011 Anatomy and Physiology
 - ALHS 1090 Medical Terminology (may be offered via Essentials of Healthcare at the high school)
 - EMSP 1010 EMR

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Fire Science
- Firefighter EMT

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- HOSA

HEALTH SCIENCE CLUSTER

THERAPEUTIC SERVICES EMR PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Emergency Nurse
EMT and Paramedic
Firefighter
Licensed Practical Nurse
Paramedic Technologist
Registered Nurse





INDUSTRY CREDENTIALS
 Technical Certificate of Credit
 National Registry Emergency
 Medical Technician

Prepares students to provide basic emergency medical care and transportation for critical and emergent patients who access the emergency medical system. EMTs function as part of a comprehensive EMS response under medical oversight and perform interventions with the basic equipment typically found on an ambulance.

IMPORTANT INFORMATION

- Must be a high school senior and reach the 18 th birthday before program completion.
- Third year courses are dual enrolled, therefore, student and parent must attend one of the district mandatory dual enrollment meetings - see counselor for dates and page 18-19 for additional DE information.
- Due to the rigor of this pathway, preference will be given to students who have completed the Emergency Medical Responder coursework.
- Bus transportation to the COI is detailed on page 18.
- Students MUST provide their own transportation to and from clinicals (weekends).

PATHWAY COURSES

1. Introduction to Healthcare Science
2. Essentials of Healthcare
3. Emergency Medical Technician
 - Dual Enrollment Courses with SCTC (Center of Innovation)
 - Fall Term
 - EMSP 1110 Introduction to EMT Profession (Advanced Credit for EMR completers)
 - EMSP 1120 EMT Assessment/Airway Management and Pharmacology
 - EMSP 1150 Shock and Trauma for the EMT
 - Spring Term
 - EMSP 1130 Medical Emergencies for the EMT
 - EMSP 1140 Special Patient Populations
 - EMSP 1160 Clinical and Practical Applications for the EMT

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Fire Science
- Firefighter EMT

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- HOSA

HEALTH SCIENCE CLUSTER

THERAPEUTIC SERVICES EMERGENCY MEDICAL TECHNICIAN (EMT) PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Air Ambulance Medical Attendant
 Ambulance Driver
 Contract Medic
 Emergency Dispatcher
 Emergency Medical Responder
 Emergency Room Technician
 Fire Department EMT
 Forensic Science Technician
 Industrial Medic
 Offshore Medic
 Paramedic
 Surgery Technologist

NOTE: Students enrolled in this program are required to provide proof of vaccination, including the COVID-19 vaccination, prior to attending required off site clinical rotations. This is a regulation of the clinical facility and not that of Southern Crescent Technical College.



HEALTH SCIENCE CLUSTER



INDUSTRY CREDENTIALS
 Technical Certificate of Credit
 Phlebotomy Technician

A phlebotomist draws blood for testing, verifies the patient's identity, and enters patient information into a database. Persons going into phlebotomy must be comfortable with blood, needles, and test tubes. Work location typically is a hospital, lab, or blood bank setting.

IMPORTANT INFORMATION

- Third year courses are dual enrolled. See additional DE information at fcboe.org/domain/71.
- Bus transportation to the COI is detailed on page 21.
- Students MUST provide their own transportation to and from clinicals (weekends).

PATHWAY COURSES

1. Introduction to Healthcare Science
2. Essentials of Healthcare
3. Diagnostics Phlebotomy
 - Dual Enrollment Courses with SCTC (Center of Innovation)
 - ALHS 1040 Introduction to Health Care
 - ALHS 1090 Medical Terminology (may be offered via Essentials of Healthcare at the high school)
 - ALHS 1011 Anatomy and Physiology
 - PHLT 1030 Intro to Venipuncture
 - PHLT 1050 Clinical Practice

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Certified in American Society for Pathology (ASCP)
- National Phlebotomy Association (NPA) Certification
- Phlebotomy Certification
- Technician Certification

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

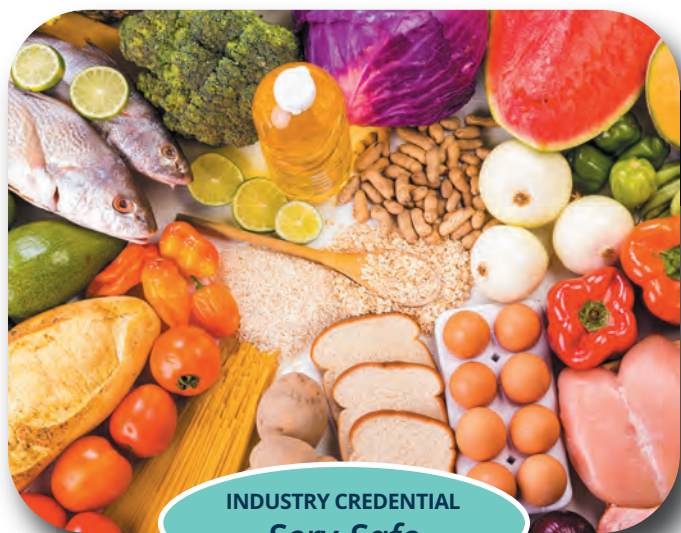
- HOSA

DIAGNOSTIC SERVICES PHLEBOTOMY PATHWAY

THIS PATHWAY IS OFFERED AT**FUTURE CAREER CHOICES**

Cardiovascular Technologist and Technician
 Information Nurse Specialist
 Medical Lab Assistant
 Nuclear Technician
 Patient Service Technician (PST)
 Phlebotomist
 Phlebotomy Supervisor
 Phlebotomy Technician
 Physician
 Radiologic Technologist
 Registered Nurse
 Respiratory Technician





INDUSTRY CREDENTIAL
Serv-Safe

Employment in this field is expected to grow faster than average 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.

PATHWAY COURSES

1. Food, Nutrition, and Wellness
2. Food for Life
3. Food Science

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Catering Specialist
- Culinary Arts
- Dietetics/Dietician
- FACS Education
- Food and Beverage Management
- Food and Nutrition Food Service Systems
- Food, Nutrition and Wellness Studies
- Food Production Assistant, Worker, or Apprentice
- Food Science and Technology
- Hotel/Restaurant/Tourism Management
- Nutrition and Food Service
- Restaurant Manager

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FCCLA

HUMAN SERVICES CLUSTER

**NUTRITION AND
FOOD SCIENCE
PATHWAY**

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Agricultural Engineer
 Biochemist
 Chef and Head Cook
 Chemical Technician
 Culinary Nutrition Assistant
 Dietetic Technician
 Dietician/Nutritionist
 Family and Consumer Science Teacher
 Flavorist
 Food Inspector
 Food Production Worker I
 Food Scientist and Technologist
 Food Service Manager
 Food Toxicologist
 Food Writer
 Geriatric Food Designer
 Health Educator
 Health Inspector
 Prep Cook
 Research and Development Specialist
 Sensory Scientist

INFORMATION TECHNOLOGY CLUSTER

COMPUTER SCIENCE PATHWAY

THIS PATHWAY IS OFFERED AT



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.

PATHWAY COURSES

1. Introduction to Software Technology
2. Computer Science Principles or AP Computer Science Principles
3. AP Computer Science - *AP Computer Science is the only course in this pathway that SMHS offers.*

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Computer Engineering Technology
- Electromechanical Engineering Technology
- Telecommunications Engineering Technology
- Industrial Engineering Technology
- Electrical Engineering Technology
- Computer Systems Engineering

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FBLA
- SkillsUSA
- TSA

FUTURE CAREER CHOICES

Computer Hardware Engineer
 Computer Info Systems Manager
 Computer Network Architec
 Computer Programmers
 Computer System Analyst
 Computer System Design Specialist
 Database Administraton
 Information Security Analysts
 Network Computer System
 Network Design Technology Specialist
 Network Specialist
 Software Developer
 Software Engineer
 Video Game Designer



INFORMATION TECHNOLOGY CLUSTER

PROGRAMMING PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Actuary
 Computer Programmer
 Computer Scientist
 Computer Software Engineer
 Computer Systems Analysis
 Computing Systems Manager
 Database Administrator
 Game Artist
 Game Tester
 Information Systems Manager
 Mathematician
 Software Developer

The Programming pathway gives many opportunities to strengthen problem solving skills, and provides needed skills in all disciplines.

PATHWAY COURSES

1. Introduction to Software Technology
2. Computer Science Principles
3. Programming, Apps, Games and Society

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Actuarial Science
- Business Information Systems
- CISCO CCNP Specialist
- CISCO Network Specialist
- Computer Forensics
- Computer Information Systems
- Computer Software Engineering, and/or Support Specialist
- Drafting Technology
- Internet Specialist/Website Design
- LINUX/UNIX System Administrator
- Networking Specialist
- PC Repair & Network Technician
- Programming
- Wireless Engineering Technology
- Wireless Networking Technician

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FBLA
- SkillsUSA
- TSA



LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY CLUSTER

FORENSIC SCIENCE PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Arson Investigator
 Coroner
 Crime Analyst
 Crime Scene Investigator
 Detective
 Evidence Technician
 Fingerprint Technician
 Forensic Investigator
 Forensic Pathologist
 Forensic Psychologist
 Forensic Scientist
 Forensic Science Technician
 Medical Examiner
 Police Officer
 Sheriff's Officer
 Special Agent

Law, Public Safety, Corrections and Security workers plan, manage, and provide legal, public safety, and security and protective services. Occupations are numerous and represent multiple levels of education and skills. The Forensic Science Pathway is designed to provide students the opportunity to study the forensic application of principles of chemistry, biology, physics and other disciplines. Students will utilize chromatography, electrophoresis, microscopic observation, and other scientific techniques in their studies. Students will also learn some investigative techniques and crime scene investigation skills through the lens of the scientific method.

PATHWAY COURSES

1. Introduction to Law, Public Safety, Corrections and Security
2. Criminal Justice Essentials
3. Forensic Science and Criminal Investigations

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Administration Criminal Justice
- Criminal Justice Technology
- Criminology
- Forensic Science
- Law Enforcement Technology
- Pre-law

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- SkillsUSA

MARKETING CLUSTER



MARKETING AND MANAGEMENT PATHWAY



THIS PATHWAY IS OFFERED AT



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.

PATHWAY CONCENTRATION COURSES

1. Marketing Principles
2. Marketing and Entrepreneurship
3. Marketing Management

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Accounting
- Advertising
- Business Administration
- Business Management
- Communication
- Economics
- Entrepreneurship
- Fashion Design and Marketing
- Graphic Arts
- Hospitality Administration
- International Business
- Marketing
- Professional Sales
- Real Estate
- Retail Merchandising
- Risk Management and Insurance

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA

FUTURE CAREER CHOICES

Advertising Account Executive
 Advertising Executive
 Airline Customer Service Agent
 Automobile Salesperson
 Brand Manager
 Brand Strategist
 Communications Specialist
 Content Specialist
 Creative Director
 Customer Service Representative
 Demonstrator and Product Promoter
 Digital Marketer
 Entertainment Marketer
 Fashion Retailer
 Floral Designer
 Funeral Director
 Insurance Agent
 Interior Designer
 Logistics Specialist
 Market Research Analyst
 Marketing Specialist
 Media Buyer
 Mortgage Broker
 Public Relations Specialist
 Purchaser
 Real Estate Agent
 Retail Buyer and Salesperson
 Sales Representative
 Search Engine Optimization Specialist
 Social Media Manager
 Sports Marketer
 Travel Agent



MARKETING CLUSTER

MARKETING COMMUNICATIONS AND PROMOTIONS PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Advertising and Promotion Manager
 Brand Ambassador
 Business Teachers/Post-Secondary
 Green Marketer
 Market Research Analyst
 Marketing Communication Associate
 Marketing Communication Specialist
 Marketing Manager
 Marketing Strategist
 Public Relations Specialist
 Product Marketer
 Promotions Coordinator
 Public Relations Specialist
 Sales Agent
 Sales Manager
 Sales Representative
 Social Media Manager
 Social Media Marketer

Keen competition should be expected in these highly coveted jobs. Those working in the marketing communications and promotion field coordinate market research, market strategies, sales, advertising, promotion, pricing, product development and public relations activities. Job 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. 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. As a result, the more computer related skills one can accumulate, the better his/her employment opportunities in this industry.

PATHWAY COURSES

1. Marketing Principles
2. Promotion and Digital Marketing
3. Integrated Marketing Communications

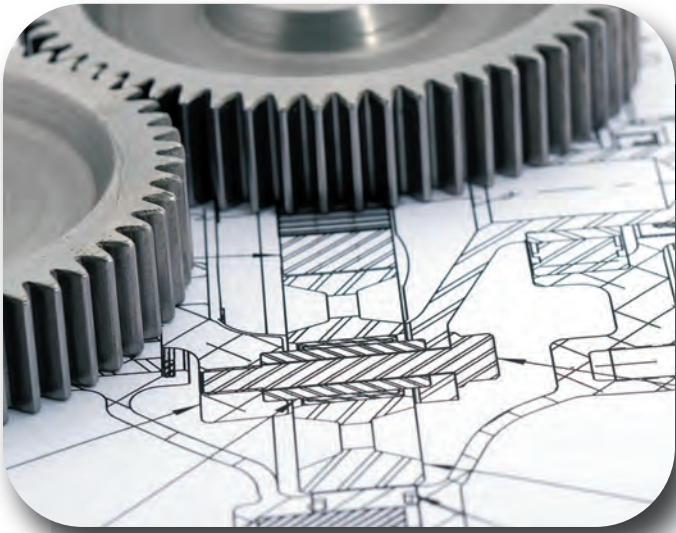
EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Accounting
- Advertising
- Business Administration
- Business Economics
- Communication
- Graphic Arts
- Management
- Marketing
- Project Management

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS CLUSTER



ENGINEERING AND TECHNOLOGY PATHWAY

The Engineering and Technology Pathway is designed for students to explore STEM-related concepts in a project-based environment. The pathway introduces students to the engineering design process and lays a strong foundation for students seeking to further their education in a STEM-related field. These courses give students the opportunity to develop skills and understanding of course concepts through activity, project, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities, and understanding of the design process. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

PATHWAY COURSES

1. Foundations of Engineering and Technology
2. Engineering Concepts
3. Engineering Applications

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Biomedical Engineering
- Computer Engineering
- Electrical Utility Technology
- Engineering Technology
- Industrial Systems Technology
- Mechanical Engineering
- Mechatronics Technology
- State Registered Apprenticeships
- Wireless Engineering Technology

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- First Robotics
- TSA

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Aerospace Engineer
 Agricultural Engineer
 Biomedical Engineer
 Chemical Engineer
 Civil Engineer
 Civil Technician
 Designer
 Drafter
 Electrical Engineer
 Electronic Engineer
 Electronic Technician
 Industrial Engineer
 Machinist
 Materials Engineer
 Mechanical Engineer
 Nuclear Engineer
 Petroleum Engineer
 Quality Control Inspector

TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER



INDUSTRY CREDENTIAL
FAA-Private Pilot Airplane

Those employed in flight operations include aircraft pilots, flight engineers, flight attendants and air traffic controllers. The demand for these job positions is projected to increase as growth in world travel rises and many employed in the field are expected to retire. Job opportunities will be highest among passenger and cargo airline companies with the best job prospects being regional airlines and low-cost carriers. 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.

PATHWAY COURSES

1. Fundamental of Aerospace
2. Flight Operations I
3. Flight Operations II

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Aerospace Engineering
- Aviation Management
- Professional Flight/Aeronautics

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- SkillsUSA
- TSA

AEROSPACE FLIGHT OPERATIONS PATHWAY

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

- Aerospace Engineer
- Air Traffic Controller
- Aircraft Cargo Handling Supervisor
- Airfield Operations Specialist
- Aviation Safety Specialist
- Avionics Inspector
- Commercial Pilot
- Flight Attendant
- Operations Technician

TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER

UNMANNED AIRCRAFT SYSTEMS PATHWAY



INDUSTRY CREDENTIAL
FAA-Remote Pilot Certification

This program will provide students the opportunity to acquire a Federal Aviation Administration Certification as a Remote Pilot with small Unmanned Aerial Systems Rating. The FAA 107 Certificate is required for commercial privileges. In addition, successful completion of this course and the FAA Part 107 certification will provide future employers with confidence that the applicants have acquired the necessary knowledge and skills to perform a variety of tasks utilizing sUAS systems safely within the National Airspace System.

PATHWAY COURSES

1. AVOT 2001 UAS Concepts credits -3
Dual enrollment course with SCTC (COI)
2. AVOT 2003 Aviation Meteorology & National Airspace System
Dual enrollment course with SCTC (COI)
3. AVOT 2103 Small Unmanned Aircraft System Regulations
Dual enrollment course with SCTC (COI)

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- Southern Crescent Technical College

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Skills USA

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Agriculture
 Delivery Service
 Engineering
 Insurance and Claim Research
 Mining Inspections and
 Research Hazardous Material Inspection
 Nuclear Power Plant Inspection
 Photographer
 Public Safety/Emergency Service
 Sewer and Cave Inspector
 Surveyors and Mapping Technician
 Telecommunications and
 Utility Companies
 Television, Video and Film Camera Editors
 Television, Video and Film Camera Operators
 Unmanned Aircraft Vehicle (UAV) Pilot

TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER

GENERAL AUTOMOTIVE PATHWAY



INDUSTRY CREDENTIAL
*Automotive Service
Excellence (ASE)*

The auto mechanics of the past were self-taught, learning from local auto shops or dealerships. Employers are now hiring employees with good people skills and backgrounds in electronics, computers and communications, along with math and problem-solving skills. 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.

PATHWAY COURSES

1. Automotive Technologies 1
2. Automotive Technologies 2
3. Automotive Technologies 3

INTERNSHIP OPTIONS

- Automobile Service Technology Internship 1
- Automobile Service Technology Internship 2

EXAMPLES OF POST-SECONDARY STUDIES MAY INCLUDE

- ASE (Automotive Service Excellence Certification)
- Automotive Collision Repair
- Automotive Engineering
- Automotive Technology
- Automotive Technology Diploma
- Auto Electrical/Electronic Systems Technician, Certificate
- Automotive Chassis Technician Specialist, Certificate
- Automotive Climate Control Technician, Certificate
- Automotive Engine Performance Technician, Certificate
- Automotive Engine Repair Technician, Certificate
- Automotive Transmission/Transaxle Tech Specialist, Certificate
- Business Management
- Industrial Truck (Fork Lift) Maintenance Technician
- Motorsports Vehicle Technology

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- SkillsUSA

THIS PATHWAY IS OFFERED AT



FUTURE CAREER CHOICES

Auto Manufacturer Sales
 Auto Manufacturer Service
 Auto or Body Technician
 Automotive Engineer
 Automotive Mechanic
 Automotive Parts Salesperson
 Automotive Salesperson
 Automotive Service Technician
 Body Shop Manager
 Commercial/Industrial Equipment Technician
 Dealership or Shop Owner
 Dealership Service Director
 DOT Salvage Inspector
 Electrical Repairer
 General Maintenance Mechanic
 Insurance Adjuster
 Parts Manager
 Parts Professional
 Quality Control Inspector
 Quality Control Technician
 Service Advisor
 Shop Foreman
 Technician (ASE Certified)
 Warranty Clerk



Fayette County Public Schools
Center of Innovation
Career and Technical Education

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www.FCBOE.org

