2016-2017 CTE CAREER, PLANNER



www.FayetteCTE.org

SCHOOL KEY SYSTEM

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



Starr's High School

Whitewater High School

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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 Starr's High School

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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 Melntosh High School Sandy Creek High School Starr's High School Whitewater High School

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HUMAN SERVIC	NUTRITION AND FOOD PATHWAY Food, Nutrition, and Wellness Food for Life Food Science	3!
INFORMATION T	ECHNOLOGY	
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Preparing students for success after high school is an inherent component of the Fayette County School District's 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 School District'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 Dr. Dan Lane, Principal 770.460.3540 http://www.fchstigers.org

MCINTOSH HIGH SCHOOL

201 Walt Banks Road Peachtree City, GA 30269 Mrs. Lisa Fine, Principal 770.631.3232 http://www.fcboe.org/mhs

SANDY CREEK HIGH SCHOOL

360 Jenkins Road Tyrone, GA 30290 Mr. Robert Hunter, Principal 770.969.2840 http://www.fcboe.org/schs

STARR'S MILL HIGH SCHOOL

193 Panther Path Fayetteville, GA 30215 Mr. Allen Leonard, Principal 770.486.2710 http://www.starrsmillhighschool.org

WHITEWATER HIGH SCHOOL

100 Wildcat Way Fayetteville, GA 30215 Mr. Roy Rabold, Principal 770.460.3935 http://www.whswildcats.org



PUBLIC NOTICE FAYETTE COUNTY SCHOOL DISTRICT

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.

- Architecture and Construction
- Arts, A/V Technology, and Communications
- Business Management and Administration
- Education and Training
- Finance
- Government and Public Administration
- Health Science
- Hospitality and Tourism
- 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:

Lisa Collins Director of Career and Technical Education 440 Hood Avenue, Fayetteville, GA 30214 770.716.1209 ext. 230 collins.lisa@mail.FCBOE.org

FAYETTE COUNTY SCHOOL DISTRICT

NOTICE OF NON-DISCRIMINATION

The Fayette County School District 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 Mike Sanders Assistant Superintendent of Operations

Fayette County Public Schools 440 Hood Avenue Fayetteville, GA 30214 770.716.1209

DISCLAIMER: The information contained within this book is as accurate as possible at the time of publication. Classes offered at each high school can change due to scheduling and allotment conflicts.

Georgia's Careers to 2022

The careers in this chart have it all!

	t or	Thinks	ent&l	Lise Orienteda	Oral r. Oral r. Oral r.	Dression	Reason Hand Hand Prehension	Write ability Steadiness	Assission Expression	1& Carlin	Comments Training & Der Others	Control M Outsid	achines	Monitor D. Comput	Physical Acrosses, Mattis 6	Anah	e Onomi	2013 Annual LL	2012:22 Annual Openings
 services that protect or restore the environment conserve natural resources. 			Son. & David Solvino.	let-	Tar In	exter a	edeal I	The state	Seion 1		ommo	ontrol	Neracti	fonitor	husical	Tocess	chedu	NO13 A	012.2
Doctoral or professional degree	10	- 1	1 %	/~	/ ~,	1-1		/ -	<u></u>	/ 9	/ ~/	9	~/	~/	~/ ·	-/ -	1-		
Business Teachers, Postsec	0		0	0									•		0			\$81,600	100
Clinical, Counseling, & School Psychologists	0											-	-	-	C	-		\$64,500	160
Dentists, General			0	0								-	+			0		\$194,500	260
Education Teachers, Postsec			0	0									•			1		\$56,000	190
Health Specialties Teachers, Postsec	0		0				•			•				•	C	,		\$99,000	390
Lawyers	0		F					•			•		+		C	-		\$139,500	680
Pharmacists	0	•	•	0			•	•	•				•		C	-		\$115,200	380
Physical Therapists	0	•	0	0	•		•	•	•				+	(2			\$81,300	250
Surgeons	•	•		0	•	•	•	0	•									\$254,400	110
Master's degree				-										Ň		10-1	0	*	2
Art, Drama, & Music Teachers, Postsec	0		0	•			•	•		•			•			0		\$62,100	110
Education Administrators, Elem & Sec	•	•		0	•		•	•		0	•					0		\$85,600	370
Education Administrators, Postsec		•	0	•	•		•	•			•		•			0		\$97,800	210
Educational, Guidance, School, & Voc Counselor	s •	•		•	•		•	•	•		•					0		\$56,900	320
Healthcare Social Workers	•	•	0	•	•		•	•	•		•					0		\$47,500	150
nstructional Coordinators	0		0		•		•	•		•				•		0		\$60,600	150
Nurse Practitioners	•	•			•			•	•				•					\$86,100	240
Nursing Instructors & Teachers, Postsec	0		0	•	٠		•	•	•	٠				•		0		\$61,200	100
Physician Assistants	•	•	0		٠		•	•	•							100		\$93,400	240
Speech-Language Pathologists	0	•		•	•		•	•	•						C	0		\$70,100	100
Bachelor's degree			_		_	_				_									
Accountants and Auditors	•	•		•	•		•	•					•		•	0		\$73,100	2,170
Administrative Services Managers	0	•		•	٠		•	•			•		•			0		\$89,500	500
Architects, Exc Landscape & Naval	•	•		0	•		•				•		•		C	0	•	\$80,400	150
Civil Engineers	•			٠	•		•	•			•		•		C	0	•	\$87,000	380
Computer & Information Systems Managers	•	•		٠	•		•	•					•		C		-	\$122,800	370
Computer Systems Analysts	•	•		٠	0		•	0				_	•		C	0	•	\$77,100	750
Construction Managers	•			•	•		•	0			•	_	•			•		\$86,400	440
Database Administrators	•	•		•	•		•	0					•		•	0	-	\$84,600	160
Electrical Engineers	•	•		•	•		•	•					•		•	-	•	\$85,400	Contraction of the second
Elementary School Teachers, Exc Spec Ed	0	•	0	•	•		•	•		•		_				0	10	\$54,000	
Financial Analysts	•	•		•	•		•	•					•		•		-	\$79,900	
General & Operations Managers	•	•	\vdash	•	•		•	•			•			•		•	-	\$109,900	100000
Human Resources Specialists	0						0			0			• 1					\$56,100	450

http://explorer.dol.state.ga.us/gsipub/index.asp?docid=356



					20								_								
			1	1						5								2	4	2	4
The car																					
				1			Ski	ills				1				u	ork			1 000	pationa
kills and Abilities advanced skills required o moderate skills red fork Activities frequently found o occasionally found Green jobs involve work that produces products services that protect or restore the environment of conserve natural resources.	quired i	disse Thinkorp.	Service & Docion Solvino a	Liss Oriented a Making .	Oral r Condino : Skills	1	At At	oilitie /	1	Conciling & Carlino Comprehensi	Comming Training of Others	Communicating O. Teaching O.	International Antibiotic Organic	Monit With Co Equipment	Philor Processee 1.	Act /	ivitie	lects	2013 Annual W.	Chara	cteristic
Bachelor's degree (Continued)	Í.		r.			_			r -	-		_					~		CO1 400	070	
Industrial Engineers	•	•	0	•	•		•	•					•	•	-	-	0	•	\$81,400 \$51,300	270 390	
Kindergarten Teachers, Exc Spec Ed		•	0	•	•		-	•	•	•					-	0	0	•	\$71.000	150	
Logisticians		•	10	•			•		-		•		•				0	_	\$91,100		
Management Analysts Market Research Analysts & Marketing Spec			-			-			-	-	\vdash	-			-			_	\$64,800	560	
Marketing Managers	0		\vdash	0		-	-					-				-	0	•	\$126,400	230	
Mechanical Engineers			┝	0	0	\vdash		0		-	-	\vdash					0	•	\$79,400	210	
Medical & Health Services Managers	0		┢			\vdash			⊢	-	\vdash	\vdash	ŀ	-	\vdash	0	0		\$90,500	480	
Meeting, Convention, & Event Planners	0		0	0					-	-		\vdash			-	-	0	•	\$46,800	140	
Middle Schl Teachers, Exc Spec & Career/Tech Ed	0	-	0			-					Ē			-		-	0	•	\$54,600	20010120	
Network & Computer Systems Administrators			-	0		-		0		-					-		0		\$78,600	420	
Personal Financial Advisors			0	•		-						-				0	0		\$105,100	300	
Public Relations Specialists		128	1														0	•	\$58,400	190	
Software Developers, Applications		•		0	0					-							0	•	\$87,100	490	
Spec Ed Teachers, Middle School	0		•				•						F				0	•	\$53,000	190	
Voc Ed Teachers, Postsec	0		•	•	•		•	•		•				•	0				\$48,900	200	
Associate's degree																					
Dental Hygienists	0	•	0	0	•	•	0		•					•					\$67,600	370	
Paralegals & Legal Assistants	0	•		•	•		0	•			•		•			•	0		\$51,200	380	
Radiologic Technologists	0	•	0	0	•		•	•	•	\square		0	•		0				\$50,400	200	
Registered Nurses	0	•	0	0	•		•	0	•					•			0		\$61,600	2,300	
Web Developers	•	•		•	0		0	0					٠			•	0	٠	\$73,000	140	
Some college, no degree							_					_					_				
Computer User Support Specialists	•	•	0	•	•		0	•					•			•	0		\$47,900	870	
Telecom Equip Installers & Repairers, Exc												0								220	
Line Installers High school diploma or equivalent				0								0							\$52,500	330	
	•		0	0	0		•		-			0				0	0		\$45,300	710	
Electricians	0	-	-			-		•	-	-	-	0	-	-	0	0	•	_	\$57,300	490	
Electricians	0	•	0			-		0		-		0			0	-	0		\$47,900	310	
Supvrs of Construction Trades & Extraction Workers	1		-	0		0	0			0					0	-	0	_	\$47,500	180	
Supvrs of Construction Trades & Extraction Workers Supvrs of Helpers, Laborers, & Mat Movers, Hand						-	-	-	-	-					F	-	0	-	\$52,400		
Supvis of Construction Trades & Extraction Workers	•	•					•	•			•	1.00				1.000	1		006,100	1,780	
Supvrs of Construction Trades & Extraction Workers Supvrs of Helpers, Laborers, & Mat Movers, Hand Supvrs of Lndscpg, Lawn Svc, & Grndskpg Workers	-	-		•	•	•	•	•	-		•	•		•					\$44,000	1,780 330	
Supvrs of Construction Trades & Extraction Workers Supvrs of Helpers, Laborers, & Mat Movers, Hand Supvrs of Lndscpg, Lawn Svc, & Grndskpg Workers Supvrs of Office & Admin Support Workers	0	•		-	-	•	-	•	-		•	•		•	-	0	0				
Supvrs of Construction Trades & Extraction Workers Supvrs of Helpers, Laborers, & Mat Movers, Hand Supvrs of Lndscpg, Lawn Svc, & Grndskpg Workers Supvrs of Office & Admin Support Workers Plumbers, Pipefitters, & Steamfitters	•	•	0	•	0	•	0				•	•		•		0 0			\$44,000	330	

GEORGIA'S STEM Careers to 2022

Science, Technology, Engineering, and Mathematics

Knowledge Understanding of principles and facts of subject matter					_		_	9	Know	ledg	e			_	_	_	_		To and	Educ	ation	,	Occupat Characte	
 full knowledge required some knowledge required Education Typical education needed to enter an occupation Jobs involve work that produces products or services that protect or restore the environment or conserve natural resources. Jobs have faster than state average job growth, above state average wages, and have at least 100 annual openings.	Administration and Management	Biology/Chemistry	Design/Bldg 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	2013 Annual Wage	2012-22 Annual Openings
Life and Physical Science, Engineering, Mat	hem	atio	s, a	nd	Info	orm	atio	n T	ech	nolo	ogy	000	upa	tion	ns			_						
Actuaries	•					•	•			•	0	•								_	1		\$102,600	20
Aerospace Engineers <table-cell-columns></table-cell-columns>	•		0	0		•			•	•	0	•	•			•					1		\$108,300	10
Biological Technicians		•								•		•									1		\$42,000	20
Civil Engineers <table-cell-columns></table-cell-columns>	•		٠	0					•	•	0	•				•					1		\$87,000	380
Computer & Information Systems Managers 🇱	•			0	0	•	•			•			0		٠						1		\$122,800	370
Computer Hardware Engineers			0			•			٠	•						•					1		\$88,900	70
Computer Network Architects	•		0	0	٠	•		٠	•	•	0										1		\$92,400	120
Computer Network Support Specialists	•		_	0	•	•			•	•								_				1	\$63,900	150
Computer Programmers	•			0		•				•		•									1		\$87,100	520
Computer Systems Analysts 🇱	•			0		•			•	•											1		\$77,100	750
Computer User Support Specialists 🇱	٠			•	0	•			٠	•												1	\$47,900	870
Database Administrators 🇱				•		•				•		•						-			1		\$84,600	160
Electrical Engineers <table-cell-columns></table-cell-columns>	•		0	0		•			٠	•	0	•	0			•					1		\$85,400	150
Electronics Engineers, Exc Computer	•		0			•			•	•		•	٠			•					1		\$85,300	180
Environmental Engineers 🕌		•	0	0					•	•	•	•				•					1		\$76,500	60
Industrial Engineers 🥌 🇱	•		0	0		•		•	•	•		•	•								1		\$81,400	270
Information Security Analysts	•		0	0	•	•		•	•	•	0										1		\$83,200	110
Mathematical Science Teachers, Postsec				0		•		•		•		•							1				\$59,800	60
Mechanical Engineers 🥌 🌃	•		0	0		•			٠	•		•	•			•					1		\$79,400	210
Network & Computer Systems Administrators 🇱	•					•				•		•									1	a-2	\$78,600	420
Operations Research Analysts	•					•			•	•		•	0								1		\$76,900	90
Sales Reps, Wholesale & Mfg, Tech & Sci Products <table-cell-columns></table-cell-columns>				0		•				•	í I		0								1		\$80,000	430
Software Developers, Applications 🇱						•			•	•		•									1		\$87,100	490
Software Developers, Systems Software 🇱			0	0		•			•	•		•									1		\$97,400	440
Statisticians	•					•				•		•								1			\$88,200	20
Web Developers	•		0	0		•		•	٠	•	0											1	\$73,000	140
Health Occupations																								
Dental Hygienists 🧱				0				•		•				•			0					1	\$67,600	370
Dentists, General 🇱	•	•	0	0			•			•				•	•		0		1				\$194,500	264
Diagnostic Medical Sonographers				•		•		•		•		•		•		•	0					1	\$60,800	90
Emergency Medical Techs & Paramedics				0				•		•	•			•	•		0	•				1	\$30,800	550
Family & General Practitioners		•		0				•		•		•		•			•	•	1				\$192,900	80
Health Specialties Teachers, Postsec		0		0	0			•			0	•		•			0	•	1				\$99,000	390

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



GEORGIA'S STEM Careers to 2022

Science, Technology, Engineering, and Mathematics

Knowledge Understanding of principles and facts of subject matter						_	_	0	(now	ledg	e			_	_					Edu	cation	n	Occupat Characte	
 full knowledge required some knowledge required Education Typical education needed to enter an occupation Jobs involve work that produces products or services that protect or restore the environment or conserve natural resources. Jobs have faster than state average job growth, above state average wages, and have at least 100 annual openings. Health Occupations (Continued)	Administration and Management	Biology/Chemistry	Design/Bldg 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	2013 Annual Wage	2012-22 Annual Openings
Internists, General				0						•				•					1				\$219,500	70
Licensed Practical & Licensed Vocational Nurses		0	-	0	-			•		•				•	-		0	•	-		-	1	\$37,500	
Med & Clinical Laboratory Technicians	1	•		0		•		-			\vdash	•	0	•	-		-					1	\$36,000	450
Med & Clinical Laboratory Technologists	\vdash		-					•				•	0	•		-		-			1	÷	\$55,700	200
Med & Health Services Managers				0													0				1		\$90,500	480
Med Records & Health Info Techs				•		•		F		•												1	\$34,900	240
Nurse Practitioners		0		0		•				•		•		•						1			\$86,100	240
Nursing Instructors & Teachers, Postsec 🇱		0		0				•		•		•		•				•		1			\$61,200	100
Occupational Therapists		0		0	1			•	•					•			•	•		1			\$75,700	90
Pharmacists		•		0		•		•		•		•		•			0	•	1				\$115,200	380
Pharmacy Technicians				•		•				•		•		•								1	\$27,600	420
Physical Therapists 🇱		Ó		0				•		•	•			•			ò	•	1				\$81,300	250
Physician Assistants 🇱		•		0				•		•		•		•						1			\$93,400	240
Radiologic Technologists 🇱			1	•		•		•	1	•		•		•		•						1	\$50,400	200
Registered Nurses 🇱		0		0				•		•	0	•		•			•	•				1	\$61,600	2,300
Respiratory Therapists		•		0				•		•		•	0	•		•	0					1	\$52,100	100
Speech-Language Pathologists 🇱				0				•		•				•			0	•		1			\$70,100	100
Surgeons 🇱	•	0		0						•							0	•	1				\$254,400	110
Surgical Technologists		0		0				•		•	0						0					1	\$40,200	110
Veterinarians	0	•		0						•		•		•					1				\$80,500	100
Architecture Occupations																								
Architects, Exc Landscape & Naval 🥌 🇱	•		•	0					•	•	•	•									1		\$80,400	150
Architectural & Civil Drafters 🥌			•	0		•			•	•	0	•										1	\$51,600	50
Architectural & Engineering Managers 🛹 🇱	•		0	0		•			•	•		•	0		•	•					1		\$125,200	220
Landscape Architects	•	0		0		•			•	•	0				_						1		\$66,500	20
Social Science Occupations																								
Clinical, Counseling, & School Psychologists	•			٠		•	•	•		•	•	•					•	•	1				\$64,500	160
Economics Teachers, Postsec						•	•	•		•	0	•							1				\$94,700	10
Economists						•		•		•		•								1			\$99,200	10
Political Science Teachers, Postsec					0	•		•		•	0						•		1				\$68,800	30
Psychology Teachers, Postsec						•		•		٠		•					•	•	1				\$66,700	40
Social Science Research Assistants	•			•		•		•		•		•					0	0				1	\$40,900	10
Sociology Teachers, Postsec				0		•		•		•	0	•					•		1				\$62,500	30
Survey Researchers	•			0		•				•		•					•			1			\$46,000	20
Urban & Regional Planners <table-cell-columns></table-cell-columns>			0	0	0			0		•	0						0			1			\$59,200	20

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

For more information, contact Workforce Statistics & Economic Research (WS&ER) at (404) 232-3875 or at workforce_info@gdol.ga.gov



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: SMHS's Early Childhood Education Program is nationally certified & MHS's Graphic Arts Program is PrintEd certified. Industry certified programs not only offer outstanding opportunities to students who receive instruction through such programs; but they also offer positive benefits for schools as well as employers.

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
- Drafting for females
- Cosmetology for males
- Automotive for females

ADDITIONAL OPPORTUNITIES INDUSTRY CERTIFICATION, NON-TRADITIONAL AND RESOURCES

CAREER PLANNING RESOURCES

www.GeorgiaCRN.org

Georgia Career Resource Network is a web site designed to assist counselors, instructors, and administrators with career-related programs, initiatives, and information.

www.GAfutures.org

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

www.careervoyages.gov

Career Voyage is a national web-site for emerging industries and high demand occupations.

www.bls.gov/oco/

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.

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.

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
- Hospitality and Tourism
- Human Services
- Information Technology
- JROTC
- Law, Public Safety, Corrections & Security
- Marketing
- Science, Technology, Engineering & Mathematics
- Transportation Distribution & Logistics
- World Language Pathways

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

work-based learning Focus on the future

SCHOOL KEY SYSTEM

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



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.

ADDITIONAL OPPORTUNITIES 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 involvelemt, 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 educaitonal 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.

SCHOOL KEY SYSTEM

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

ADDITIONAL OPPORTUNITIES CAREER AND TECHNICAL STUDENT ORGANIZATIONS



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.



Health Occupations Students of America

Health Science Technology Education (HSTE) is a national student organization that provides a unique program of leadership development, motivation, and recognition exclusively for secondary, post-secondary, collegiate, and adult students enrolled in health occupations education courses or instructional programs. HOSA is an integral part of approved health occupation programs. Health Science Technology Education (HSTE) students who become active members in a local HOSA chapter are eligible for membership in state and national HOSA.

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.georgiahosa.org.

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 include drama, communication, broadcasting and graphic arts students. The mission of SkillsUSA is to develop leadership skills and workplace competencies that students will need to success 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 in Kansas City, Missouri, in June.



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.



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
Essentials of Healthcare	Х	х		
Food for Life	Х	х		
Food Science	Х	х		
Food and Nutrition Through the Lifespan	Х	х		
* Advanced Placement Computer Science	Х	х	Х	х
* Advanced Placement Computer Science Principle	es X	х		
* Web Development	Х	х		
* Computer Science Principles	Х	х	Х	х
* Programming, Games, Apps and Society	х	х	х	х

* Two computer science sequenced courses will satisfy the two year world language requirement for graduation electives but may not be accepted for world language credit by the colleges and universities.





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

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

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

Implementation of career pathways is a collaborative effort between the Fayette County School District, 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.
- The Fayette County School District offers 14 of the 17 Career Clusters.



CAREER CLUSTERS

These are the 14 Career Clusters currently offered in the Fayette County School District.

ARCHITECTURE AND CONSTRUCTION

Careers with common knowledge and skills related to the designing, planning, managing, and building structures.

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.

HOSPITALITY AND TOURISM

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

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

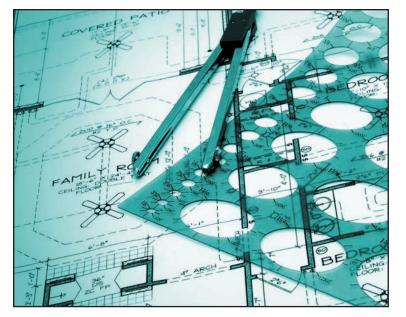
Careers with common knowledge and skills related to the process of anticipating, managing, and satisfying consumers' demand for products, services, and ideas. The Marketing career cluster generates the strategy that underlies advertising and promotional techniques, business communication, and business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



People with careers in Architectural, Drawing and Design are people who solve problems and focus on making things work more efficiently and effectively. Engineers apply the theories and principles of science and mathematics to research and develop economical solutions to technical problems. Their work is the link between perceived social needs and commercial applications.

PATHWAY COURSES

- Introduction to Drafting and Design
- Architectural Drawing and Design I
- Architectural Drawing and Design II

RECOMMENDED COURSES

- Advanced Algebra/Trigonometry
- Calculus
- Computer Applications
- Entrepreneurship
- World Language
- Introduction to Animation and 3D Design
- Physics
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

- **TECHNICAL COLLEGES**
- CAD Operator
- Land Development
- Project Management
- Specialty Construction

COLLEGES/UNIVERSITIES

- Architecture
- Civil Engineering Technology
- Construction Engineering
- Construction Management
- Surveying and Mapping

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

SkillsUSA

ARCHITECTURE AND CONSTRUCTION

ARCHITECTURAL DRAWING AND DESIGN PATHWAY

TOP CAREERS CHOICES

Architect

Bachelor Degree needed \$53,000 annual salary 110 annual average openings in Georgia

Architectural and Civil Drafter

Post-Secondary Vocational Training needed \$42,078 annual salary 80 annual average openings in Georgia

Mechanical Drafter

Post-Secondary Vocational Training needed \$42,141 annual salary 40 annual average openings in Georgia

Surveying and Mapping Technician Moderate-Term On-the-Job Training needed \$29,099 annual salary 110 annual average openings in Georgia

Surveyor

Bachelor Degree needed \$42,349 annual salary 110 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Architectural Detailer Architectural Engineer Building Inspector Civil Engineer Designer Drafter Electrical Engineer Environmental Engineer Interior Designer Landscape Designer Structural Detailer Structural Engineer Technician Urban Planner



Audio and Video Technology and Film is a class that teaches all aspects of video production from pre-production, production, and post-production, including theory and practical application. Students will have the opportunity to participate in various types of broadcast/video production from events and commercials to mini-movies and documentaries.

PATHWAY COURSES

- Audio and Video Technology and Film I
- Audio and Video Technology and Film II
- Audio and Video Technology and Film III

RECOMMENDED COURSES

- Computer Applications
- Business Communications
- World Language
- Intro to Animation and 3D Design
- Marketing Principles
- Yearbook/Journalism
- Web Page Design
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Technical Studies
- Telecommunications Arts

COLLEGES/UNIVERSITIES

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

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

• SkillsUSA

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS

AUDIO/VIDEO TECHNOLOGY AND FILM PATHWAY

TOP CAREERS CHOICES

Audio and Video Equipment Technician Long-Term On-the-Job Training needed \$40,498 annual salary 80 annual average openings in Georgia

Broadcast News Analyst

Bachelor Degree needed \$57,845 annual salary 20 annual average openings in Georgia

Broadcast Technician

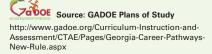
Associate Degree needed \$35,443 annual salary 50 annual average openings in Georgia

Radio and Television Announcer

Long-Term On-the-Job Training needed \$34,445 annual salary 50 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

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





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, 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 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

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

RECOMMENDED COURSES

- Computer Applications
- Business Communications
- World Language
- Intro to Animation and 3D Design
- Marketing Principles
- Yearbook/Journalism
- Web Page Design
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

BACHELOR'S DEGREE

- Animation School Varying Certificates available
- Intern experience

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

SkillsUSA

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS

ANIMATION AND DIGITAL MEDIA PATHWAY

TOP CAREERS CHOICES

Camera Operators (Television, Video, Motion Picture) 2015 Wage: \$59,600

Composing Artist 2015 Wage: \$65,000

Multimedia Artist and Animators 2014 Wage: \$51,800

Forensic Animator 2015 Wage: \$20-\$100 per hour depending on experience

Mathematical Modeler 2015 Wage: \$80,000

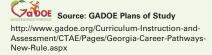
Storyboard Artist 2015 Wage: \$55,000

3D Medical Animator 2015 Wage: \$60,000

3D Modeler 2015 Wage: \$75,000

ADDITIONAL CAREER CHOICES

Animation Producers Artistic Director Graphic Designer Film and Video Editors 3D Animator TV Director TV Producer





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

- Introduction to Graphics and Design
- Graphic Design and Production
- Advanced Graphic Output Processes

RECOMMENDED COURSES

- Advanced Web Design
- Computing in the Modern World
- World Language
- Fundamentals of Web Design
- Introduction to Animation and 3D Design
- Legal Environment of Business
- Psychology
- Work-Based Learning
- Yearbook/Journalism

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

• SkillsUSA

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS

GRAPHIC COMMUNICATION PATHWAY

TOP CAREERS CHOICES

Prepress Technicians and Workers Post-Secondary Vocational Award needed \$35.443 annual salary

\$35,443 annual salary 40 annual average openings in Georgia

Printing Machine Operators

Moderate On-the-Job Training needed \$33,509 annual salary 220 annual average openings in Georgia

Public Relations Specialist

Bachelor Degree needed \$48,672 annual salary 120 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

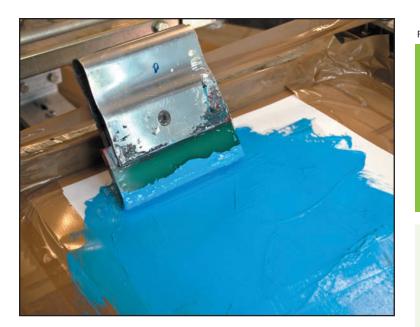
Bindery and Finishing Technician Customer Service Representative Graphic Designer

Prepress Imaging Specialist

Press Operator

Screen Printing

Shipping and Distribution Manager



Graphic Design is communication through visual means. This can be achieved either by Artistic or Printing means. The Graphic Design pathway starts with an introduction to the graphic design principals while exploring the techniques of creative problem solving. Graphic Design and Production explores the various printing techniques including screen-printing and offset printing. The third and final class Advance Graphic Design or Production the student will choose a to specialize in either Graphic Design or Graphic Production focusing on the demand and real world techniques of the specialty.

PATHWAY COURSES

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

RECOMMENDED COURSES

- Art
- Computer Applications
- Marketing

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Graphic Design
- Prepress and Production
- COLLEGES/UNIVERSITIES
- Graphic Design
- Industrial Design
- Printmaking
- Product Design

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

SkillsUSA

FAYETTE COUNTY SCHOOL DISTRICT 2016-2017 Career Planner 22

ARTS, AUDIO-VIDEO TECHNOLOGY AND COMMUNICATIONS

GRAPHIC DESIGN PATHWAYS

TOP CAREERS CHOICES

Art Director

College Degree needed, plus 5-7 years experience \$57,000 annual salary

Creative Designer

College Degree needed, plus 10+ years experience \$87,000 annual salary

Junior Designer

College Degree needed \$31,000 annual salary

Senior Designer

College Degree needed, plus 3 years experience \$35,000 annual salary

ADDITIONAL CAREER CHOICES

Fashion Design Illustration Photography 3D Animation



Pathway of social, ethical, and human issues related to technology. Courses will provide an introduction to computer technology, decision making, productivity, communications, and problem-solving skills. Areas of instruction include integration of word processing, desktop publishing, spreadsheet, database, and presentation software as well as the use of emerging technologies.

PATHWAY COURSES

- Introduction to Business and Technology
- Business and Technology
- Business Communications

RECOMMENDED COURSES

- Any business and computer science course
- World Language
- Marketing Principles
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Administrative Support Assistant
- Business Administrative Assistant
- Business Administrative Technology
- Certification in Microsoft Applications (MOAC)
- Data Entry Clerk
- General Office Assistant
- Microsoft Excel Application User
- Microsoft Office Application Professional
- Microsoft Word Application Professional

COLLEGES/UNIVERSITIES

- Business
- Business Administration

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FBLA
- SkillsUSA

BUSINESS MANAGEMENT AND ADMINISTRATION

BUSINESS AND TECHNOLOGY PATHWAY

TOP CAREERS CHOICES

Administrative Services Manager Bachelor Degree needed \$68,016 annual salary 420 annual average openings in Georgia

Executive Secretary and Administrative Assistant

Moderate On-the-Job Training needed \$37,378 annual salary 1,620 annual average openings in Georgia

Legal Secretary

Post-Secondary Vocational Award needed \$36,338 annual salary 270 annual average openings in Georgia

Medical Transcriptionist

Post-Secondary Vocational Award needed \$30,514 annual salary 130 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

- Administrative Assistant Communications Equipment Operator
- Computer Operator
- Court Reporter
- Customer Service Assistant
- Data Entry Specialist
- Desktop Publisher
- Dispatcher
- Executive Assistant
- Information Assistant
- Office Manager
- Receptionist
- Shipping and Receiving Personnel
- Word Processors



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

- Introduction to Business and Technology
- Legal Environment of Business
- Entrepreneurship

RECOMMENDED COURSES

- Any Business and Computer Science Course
- World Language
- Marketing Principles
- Work-Based Learning
- Yearbook/Journalism

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Business Office Technology
- Entrepreneurship
- Management and Supervisory Development
- Office Administration
- COLLEGES/UNIVERSITIES
- Business
- Business Administration

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FBLA
- SkillsUSA

BUSINESS MANAGEMENT AND ADMINISTRATION

ENTREPRENEURSHIP PATHWAY

TOP CAREERS CHOICES

Advertising and Promotion Manager Bachelor Degree needed \$76,898 annual salary 60 annual average openings in Georgia

Chief Executive

Bachelor Degree plus work experience needed \$155,168 annual salary 850 annual average openings in Georgia

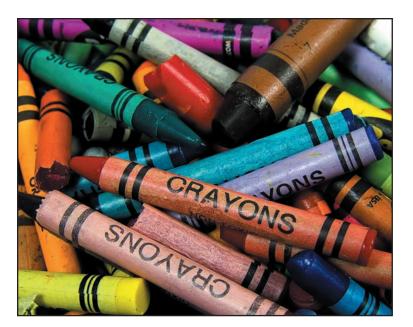
Employment, Recruitment, and Placement Specialist Bachelor Degree needed \$50,877 annual salary 440 annual average openings in Georgia

Social and Community Service Manager Bachelor Degree needed \$59,904 annual salary 100 annual average openings in Georgia

Training and Development Manager Bachelor Degree needed \$79,498 annual salary 60 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Appraiser and Assessor of Real Estate Accountant and Auditor Administrator Bank Teller **Business Educator Chief Executive Officer** Claims Adjuster and Examiner **Computer Support Specialist Computer Systems Analyst Cost Estimator** Database Administrator Entrepreneur Financial Analyst and Manager Investigator Network and Computer System Paralegal and Legal Assistant Personal Financial Advisor Sales Manager **Tax Prepare**



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

- Early Childhood Education I
- Early Childhood Education II
- Early Childhood Education Practicum

RECOMMENDED COURSES

- Any Education Course
- World Language
- Psychology
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Child Care Assistant
- Child Care Manager
- · Child Development Associate I and II
- Child Development Specialist
- Early Childhood Care and Education (Associate Degree)
- Early Childhood Care and Education Assistant
- Early Childhood Program Administration
- Infant-Toddler Childcare Specialist

COLLEGES/UNIVERSITIES

- Art Teacher
- Elementary Teacher
- Music Teacher
- Physical Education Teacher

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

FCCLA

EDUCATION AND TRAINING

EARLY CHILDHOOD CARE AND EDUCATION 1 PATHWAY

TOP CAREERS CHOICES

Elementary School Teacher Bachelor Degree needed \$46,888 annual salary 2,590 annual average openings in Georgia

Kindergarten Teacher

Bachelor Degree needed \$45,969 annual salary 330 annual average openings in Georgia

Preschool Teacher

Post-Secondary Vocational Training needed \$24,419 annual salary 500 annual average openings in Georgia

Special Education Teacher

Preschool, Kindergarten or Elementary Bachelor Degree needed \$46,358 annual salary 450 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

After-School Program Supervisor Child Care Administrator Child Care Director and Owner Child Care Supervisor Child Life Specialist Education Administrator Educational and Teacher Aide Elementary School Teacher Recreation Attendant Special Education Teacher Preschool Teacher

University Instructor and Professor



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

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

RECOMMENDED COURSES

- Any Education Course
- World Language
- Human Growth and Development
- Psychology
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

- TECHNICAL COLLEGES
- Child Care Assistant and/or Child Care Manager
- Child Development Associate I and/or II
- Child Development Specialist
- Early Childhood Care and Education (Associate Degree)
- Early Childhood Care and Education Assistant
- Early Childhood Program Administration
- Early Childhood Education or Exceptionalities
- Education of the Gifted
- Infant-Toddler Childcare Specialist

COLLEGES/UNIVERSITIES

- Adult, Art, Music or Special Education
- Career and Technical Education
- Early Childhood Education
- English, Math, Science or Social Studies Education
- Education of the Gifted
- Family and Consumer Sciences Education
- World Language Education
- Health and Physical Education
- Human Resource and Organizational Development
- Middle School Education
- Professional School Counseling
- School Psychology
- Speech Communication

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

FCCLA

EDUCATION AND TRAINING

TEACHING AS A PROFESSION PATHWAY

TOP CAREERS CHOICES

Middle School Special Education Teacher Bachelor Degree needed \$46,891 annual salary 230 annual average openings in Georgia

Post-Secondary Education Administrator

Bachelor Degree plus work experience needed \$81,328 annual salary 160 annual average openings in Georgia

Post-Secondary Vocational Education Teacher

Bachelor Degree plus work experience needed \$45,386 annual salary 370 annual average openings in Georgia

Secondary School Teacher

Bachelor Degree needed \$49,956 annual salary 1,360 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Administration 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 Teacher
- Post-Secondary Vocational Education
- Recreation Attendant
- School Administration
- Social Services Aide
- Special Education Teacher
- Teacher



Strong growth in accounting jobs throughout the next decade is expected to occur due to the increased growth in the number of new businesses and stricter accounting and auditing regulations.

PATHWAY COURSES

- · Introduction to Business and Technology
- Financial Literacy
- Principles of Accounting II

RECOMMENDED COURSES

- · Any business and computer science course
- World Language
- Marketing Principles
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Accounting
- Medical Administrative Assistant
- Office Accounting Specialist

COLLEGES/UNIVERSITIES

- Accounting
- Business Education
- Business Management
- Economics
- Finance
- Marketing and Real Estate

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

FBLA

FINANCE

BUSINESS ACCOUNTING PATHWAY

TOP CAREERS CHOICES

Accountants and Auditors Bachelor Degree needed \$54,330 annual salary 1,090 annual average openings in Georgia

Bookkeeping/Accounting/Auditing Clerks Moderate-Term On-the-Job Training needed \$29,619 annual salary

1,490 annual average openings in Georgia

Budget Analysts Bachelor Degree needed \$58,698 annual salary 30 annual average openings in Georgia

Tax Examiner, Collector and Revenue Agent Bachelor Degree needed \$43,909 annual salary 70 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Auditing Clerk Auditor Bookkeeper **Budget Analyst** Certified Public Accountant **Corporate Accountant** Entrepreneur FBI Agent **Financial Advisor Financial Analyst** Forensic Accountant Government Accountant Income Tax Professional Managerial Accountant Non-Profit Accountant Teacher



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

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

RECOMMENDED COURSES

- Business Foundation and Business Management
- Desktop Publishing
- Financial Management
- Accounting 1 and 2
- Personal Financial Literacy
- Personal and Business Law 1 and 2
- Marketing 1 and 2
- Web Design

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

- TECHNICAL COLLEGES, COLLEGES/UNIVERSITIES
- Financial Planning
- Business Administration-Financial Analysis
- Accounting
- Consumer and Family Financial Services
- Disaster Relief Insurance Claim Adjuster

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

• FBLA

FINANCE

FINANCIAL SERVICES PATHWAY

TOP CAREERS CHOICES

Auditor Bachelor Degree needed \$73,910 annual salary

Insurance Sales Agent 1-2 years Post-Secondary training needed \$62,790 annual salary

Claims Adjuster Post-Secondary training plus

on-the-job training needed \$63,220 annual salary

Accountant

Bachelor Degree needed \$73,910 annual salary

ADDITIONAL CAREER CHOICES

Business Teacher Financial Project Specialist Financial Planner Research Sales and Service



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

- Aerospace Science: A Journey Into Aviation
 History Leadership I
- Aerospace Science: Science of Flight and Leadership II
- Aerospace Science: Exploration of Space and Leadership III
- Aerospace Science: Management of the Cadet Corps and/or Leadership IV

RECOMMENDED COURSES

- Any World Language Elective
- Any Math Elective
- Any Science Elective
- Computer Applications

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

- Academy Appointments
- Active Reserve and National Guard options available
- Armed Forces (Advanced Placement Enlistment Opportunities) Army, Air Force, Marines, Navy, Coast Guard
- 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.

GOVERNMENT AND PUBLIC ADMINISTRATION

JROTC AIR FORCE PATHWAY

TOP CAREERS CHOICES

Students enrolled in JROTC programs may find high-demand, high-wage, and high-skilled occupations in the public sector at www.occsupplydemand.org or if they plan on a career in the military they will find "Military Occupations" listed on GAfutures under the Career Planning Tab.

ADDITIONAL CAREER CHOICES

Air Traffic Controller Aircraft Repairer Animal Care Specialist **Broadcast Specialist Calvary Scout** Chaplain Computer and Detection Repairer **Construction Equipment Repairer** Criminal Investigation Special Agent **Dental Specialist Equipment Repairer Finance Officer** Health Care Specialist Human Resource Specialist Information Technology Specialist Intelligence Analyst Interpreter and Translator Medical Laboratory Specialist

- Medical Laboratory Special
- Military Police Officer
- Missile Fire Control Operator
- Missile Fire Control Maintainer
- Multi Media Illustrator
- Signal Intelligence Analyst
- Special Force
- **Technical Engineer**
- Transportation Management Coordinator
- Visual Information Equipment 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

- JROTC Army Leadership Education I
- JROTC Army Leadership Education II
- JROTC Army Leadership Education III
- JROTC Army Leadership Education IV

RECOMMENDED COURSES

- Any CTE Course
- World Language
- Modern US Military History

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

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

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

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

GOVERNMENT AND PUBLIC ADMINISTRATION

JROTC ARMY PATHWAY

TOP CAREERS CHOICES

Students enrolled in JROTC programs may find high-demand, high-wage, and high-skilled occupations in the public sector at www.occsupplydemand.org or if they plan on a career in the military they will find "Military Occupations" listed on GAfutures under the Career Planning Tab.

ADDITIONAL CAREER CHOICES

Air Traffic Controller Aircraft Repairer Animal Care Specialist **Broadcast Specialist Calvary Scout** Chaplain Computer and Detection Repairer **Construction Equipment Repairer** Criminal Investigation Special Agent **Dental Specialist 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** Multi Media Illustrator Signal Intelligence Analyst **Special Force Technical Engineer Transportation Management Coordinator** Visual Information Equipment Operator



Employment is projected to increase 27% through 2014 - more than in any other industry. 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.

PATHWAY COURSES

- Introduction to Healthcare Science
- Essentials of Healthcare
- Allied Health and Medicine

RECOMMENDED COURSES

- World Language
- Human Anatomy/Physiology
- Psychology
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Clinical Lab Technology
- Dental Assisting or Hygiene
- Medical Assisting
- Nurse Aid
- Pharmacy Technology
- Practical Nursing
- Radiologic Technology
- Registered Nursing
- Surgical Technology

COLLEGES/UNIVERSITIES

- Doctor
- Dentist
- Nurse Practitioner
- Physical Therapist
- Registered Nurse
- Surgeon
- CAREER AND TECHNICAL STUDENT ORGANIZATIONS
 - HOSA

HEALTH SCIENCE

THERAPEUTIC SERVICES ALLIED HEALTH AND MEDICINE PATHWAY

TOP CAREERS CHOICES

Dental Hygienist

Associate Degree needed \$55,390 annual salary 280 annual average openings in Georgia

Medical and Clinical Laboratory Technician

Associate Degree needed \$30,846 annual salary 250 annual average openings in Georgia

Pediatrician

First Professional needed \$139,298 annual salary 70 annual average openings in Georgia

Physical Therapist

Master Degree neede \$65,042 annual salary 120 annual average openings in Georgia

Surgical Technologist

Post-Secondary Vocational Training needed \$32,157 annual salary 140 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Clinical Laboratory Technician Dental Hygienist EMT Medical Doctor Medical Laboratory Technician Orthopedic Technologist Paramedic Pharmacist Physical Therapist Radiologic Technologist Surgical Technologist Veterinarian



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 healthcares skills development is initiated including medical terminology, microbiology, and basic life support.

PATHWAY COURSES

- Introduction to Healthcare Science
- Essentials of Healthcare
- Patient Care Fundamentals

RECOMMENDED COURSES

- World Language
- Human Anatomy/Physiology
- Physics
- Psychology
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Dental Hygiene
- Orthopedic Technology
- Physical Therapist Assistant
- Radiologic Technology
- Surgical Technology

COLLEGES/UNIVERSITIES

- Dentist
- Doctor
- Nurse Practitioner
- Physical Therapist
- Registered Nurse
- Surgeon

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

HOSA

HEALTH SCIENCE

THERAPEUTIC SERVICES PATIENT CARE PATHWAY

TOP CAREERS CHOICES

Health Educator

Master Degree needed \$53,290 annual salary 90 annual average openings in Georgia

Medical and Health Services Manager

Bachelor Degree needed \$74,486 annual salary 330 annual average openings in Georgia

Occupational Therapist

Master Degree needed \$58,427 annual salary 100 annual average openings in Georgia

Registered Nurse

Associate/ Bachelor Degree needed \$53,893 annual salary 3,340 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Certified Nursing Assistant Dental Assisting Licensed Practical Nurse Medical Assisting Occupational Therapy Assistant Physical Therapy Assistant Respiratory Therapist Surgical Technologist





Employment of EMTs and paramedics is expected to grow much faster than average through 2014. Demand for emergency services will increase as a large segment of the population ages and becomes more likely to have medical emergencies. Those certified in EMT-Intermediate and EMT-Paramedic fields will have favorable job prospects. There will also be a demand for parttime, volunteer EMTs and paramedics in rural areas.

PATHWAY COURSES

- Introduction to Healthcare Science
- Essentials of Healthcare Science
- Emergency Medical Responder

RECOMMENDED COURSES

- World Language
- Human Anatomy/Physiology
- Physics
- Psychology
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Fire Science
- Firefighter EMT

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

• HOSA

FAYETTE COUNTY SCHOOL DISTRICT 2016-2017 Career Planner 33

HEALTH SCIENCE

THERAPEUTIC SERVICES EMR PATHWAY

TOP CAREERS CHOICES

EMT/Paramedic

Post-Secondary Vocational Training needed \$29,328 annual salary 290 annual average openings in Georgia

Fire Fighter

Long-Term On-the-Job Training needed \$33,030 annual salary 500 annual average openings in Georgia

Licensed Practical Nurse

Post-Secondary Vocational Training needed \$33,030 annual salary 960 annual average openings in Georgia

Registered Nurse

Associate Degree needed \$54,787 annual salary 3,340 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Emergency Nurse EMT and Paramedic Firefighter Paramedic Technologist

> Kup://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx



The Culinary Arts pathway introduces students to fundamental food preparation terms, concepts, and methods in culinary arts where laboratory practice will parallel class work. Fundamental techniques, skills, and terminology are covered and mastered with an emphasis on basic kitchen and dining room safety, sanitation, equipment maintenance and operation procedures. Courses also provide an overview of the professionalism in the culinary industry and career opportunities leading into a career pathway in culinary arts.

PATHWAY COURSES

- Introduction to Culinary Arts
- Culinary Arts I
- Culinary Arts II

RECOMMENDED COURSES

- Algebra
- Any Science Elective
- Business Essentials
- Computer Applications
- Entrepreneurship
- World Language (Spanish and French)

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Culinary Arts (Standard Pathway or Baking and Pastry Pathway)
- Food and Beverage Management
- Hospitality Management

COLLEGES/UNIVERSITIES

- Culinary Arts (Standard Pathway or Baking and Pastry Pathway)
- Food and Beverage Management
- Food Science
- Hospitality Management

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

FCCLA

FAYETTE COUNTY SCHOOL DISTRICT 2016-2017 Career Planner 34

HOSPITALITY AND TOURISM

CULINARY ARTS PATHWAY

TOP CAREERS CHOICES

Chef and Head Cook Work experience needed \$31,304 annual salary 110 annual average openings in Georgia

Food Services Manager

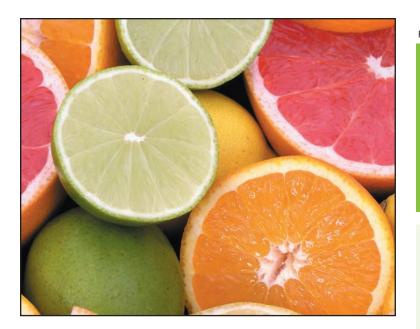
Work experience needed \$49,860 annual salary 400 annual average openings in Georgia

Pastry Chef

Work experience needed \$34,890 annual salary 130 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

- Baker Cake Designer Caterer Chocolatier Culinary Arts Instructor Dining Room Management Dining Room Service Food and Beverage Director Food Stylist and Photographer
- Food Writer and Critic
- Hotel Manager
- Kitchen Manager
- Personal Chef
- Research and Development Chef
- Restaurant Entrepreneur



Employment in this field is expected to grow faster than average through 2014 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

- Food, Nutrition, and Wellness
- Food for Life
- Food Science

RECOMMENDED COURSES

- Any Business and Computer Science Course
- Any Science Elective
- World Language
- Human Growth and Development for Early Childhood
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

- **TECHNICAL COLLEGES**
- Culinary Arts
- Food and Beverage Management
- Food Production Assistant, Worker, or Apprentice
- Hotel/Restaurant/Tourism Management

COLLEGES/UNIVERSITIES

- Dietetics/Dietician
- FACS Education
- Food, Nutrition and Wellness Studies
- Food Science and Technology

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

FCCLA

FAYETTE COUNTY SCHOOL DISTRICT 2016-2017 Career Planner 35

HUMAN SERVICES

NUTRITION AND FOOD PATHWAY

TOP CAREERS CHOICES

Chef and Head Cook Work experience needed \$31,304 annual salary 110 annual average openings in Georgia

Dietician/Nutritionist

Bachelor Degree needed \$42,619 annual salary 80 annual average openings in Georgia

Food Scientist and Technologist Bachelor Degree needed \$55,869 annual salary 10 annual average openings in Georgia

Food Services Manager

Work experience needed \$46,384 annual salary 400 annual average openings in Georgia

Health Education

Master Degree needed \$53,290 annual salary 90 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Agricultural Engineer **Biochemist Chemical Technician Consumer Representative Dietetic Technician** Family and Consumer Science Teacher Flavorist Food Inspector and Service Manager Geriatric Food Designer Health Educator and Inspector Microbiologist **Product Evaluation Scientist Research and Development Specialist** Sensory Scientist **Teacher Educator Technical Writer** Toxicologist



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

- Introduction to Digital Technology
- Computer Science Principles or AP Computer Science Principles
- AP Computer Science

RECOMMENDED COURSES

- Any Business and Computer Science Course
- Any Advanced Math Course
- Any World Language
- Entrepreneurship

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Computer Engineering Technology
- Electromechanical Engineering Technology
- Telecommunications Engineering Technology
- Industrial Engineering Technology
- Electrical and Computer Engineering Technology
- Computer Engineering Technology
- Computer System Design Specialist
- Network Design Technology Specialist
- Network Specialist

COLLEGES/UNIVERSITIES

- Computer Systems Engineering
- Bachelor of Arts with a Major in Applied Computer Science
- Bachelor of Science with a Major in Computer Science
- Bachelor of Science with a Major in Computer Game Design and Development

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FBLA
- SkillsUSA

INFORMATION TECHNOLOGY

COMPUTER SCIENCE PATHWAY

TOP CAREERS CHOICES

Employment of computer programmers is expected to increase 12 percent from 2010 to 2020, about as fast as the average for all occupations.

Computer Programmers

Bachelor Degree needed \$75,400 annual salary 230 annual average openings in Georgia

Computer System Analysts

Bachelor Degree needed \$73,800 annual salary 810 annual average openings in Georgia

Software Developers, Application Bachelor Degree needed

\$86,300 annual salary 340 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Computer Programmers Computer and Information Systems Managers Computer Hardware Engineers Computer Network Architects Computer System Analysts Database Administrators

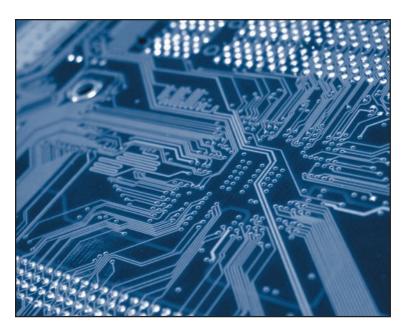
Information Security Analysts

Network and Computer Systems

Administrators

- Software Engineers
- Video Game Designers

Ktp://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx



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

PATHWAY COURSES

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

RECOMMENDED COURSES

- Any Business and Computer Science Course
- Broadcast/Video Production
- World Language
- Introduction to Engineering Drawing and Design
- Introduction to Graphics and Design
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Business Information Systems
- Computer Forensics
- Computer Information Systems
- Computer Programming
- Computer Software Engineering
- Computer Science
- Information Science
- Information Technology
- Mathematics

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- FBLA
- SkillsUSA

INFORMATION TECHNOLOGY

PROGRAMMING PATHWAY

TOP CAREERS CHOICES

Computer Programmers Bachelor Degree needed \$73,674 annual salary 330 annual average openings in Georgia

Computer Software Engineers

Bachelor Degree needed \$77,022 annual salary 730 annual average openings in Georgia

Computer System Analysts

Bachelor Degree needed \$74,443 annual salary 890 annual average openings in Georgia

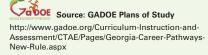
Computing and Information Systems Managers

Bachelor Degree plus experience needed \$101,400 annual salary 530 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Actuaries

- Computer Scientist Computer Software Engineer Computer Systems Analyst
- Database Administrator
- Mathematician





The Web and Digital Design pathway instructs students on the basics of designing a web page and leads to advanced web design and 3D animation. Web design can be found in every area of business and industry, as well as in individuals' personal life. Students will have the opportunity to learn skills that will help them create web pages, gaming and other digital media features.

PATHWAY COURSES

- Introduction to Digital Technology
- Digital Design
- Web Design

RECOMMENDED COURSES

- Any Business and Computer Science Course
- Art
- Broadcast/Video Production
- World Language
- Introduction to Graphics and Design
- Marketing Principles
- Work-Based Learning
- Yearbook/Journalism

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Computer Animation and Multimedia
- Computer Simulation
- Digital Media
- Internet Specialist Web Site Design
- Printing and Graphics Technology
- Web Site Designer

COLLEGES/UNIVERSITIES

- Animation
- Computational Media
- Computer Science
- Graphic Designer

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

• FBLA

INFORMATION TECHNOLOGY

WEB AND DIGITAL DESIGN PATHWAY

TOP CAREERS CHOICES

Computer Specialist

Associate Degree needed \$55,640 annual salary 80 annual average openings in Georgia

Desktop Publisher

Post-Secondary Vocational Training needed \$30,680 annual salary 30 annual average openings in Georgia

Graphic Designer

Bachelor Degree needed \$44,034 annual salary 160 annual average openings in Georgia

Multi-Media Artist and Animator Bachelor Degree needed \$44,554 annual salary 40 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Computer Service Technician Database Developer **Graphic Designer** Help Desk Support Illustrator Internet Specialist Multimedia Developer Network Analyst Network Engineer Programmer **Project Manager** Video Game Developer Web Developer Webmaster Website Designer Software Trainer



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

- Introduction to Law, Public Safety, Corrections and Security
- Criminal Justice Essentials
- Forensic Science and Criminal Investigations

RECOMMENDED COURSES

- Accounting
- Anatomy
- Any Health Care Science Course
- Computer Applications
- Foreign Language
- Forensics Science Elective
- Legal Environment of Business
- Spanish
- Wildlife Management
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Criminal Justice Technology
- Law Enforcement Technician

COLLEGES/UNIVERSITIES

- Criminal Justice
- Criminology
- Pre-law

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

SkillsUSA

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

FORENSIC SCIENCE PATHWAY

TOP CAREERS CHOICES

Detectives and Criminal Investigators Bachelor's Degree \$45,600 annual salary 160 annual average openings in Georgia

Police and Sheriff's Patrol Officers

Some college, no degree required \$37,400 annual salary 710 annual average openings in Georgia

Forensic Science Technicians

Bachelor Degree needed \$28,400 annual salary 10 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Agents Animal Controllers Bloodstain Pattern Analyst Criminal Investigators and Special Agents Detectives and Criminal Investigators First-Line Supervisors Forensics Ballistics Expert Forensic Science Technicians Immigration and Customs Inspectors Police and Sheriff's Patrol Officers Polygraph Examiner

Sheriffs and Deputy Sheriffs



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

- Marketing Principles
- Marketing and Entrepreneurship
- Marketing Management

RECOMMENDED COURSES

- Any Business and Computer Science Course
- World Language
- · Sports and Entertainment Marketing
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- Business Administration
- Entrepreneurship
- Expert Sales Management
- Fashion Design and Marketing
- Retail and Merchandising

COLLEGES/UNIVERSITIES

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

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

DECA

MARKETING

MARKETING AND MANAGEMENT PATHWAY

TOP CAREERS CHOICES

Chief Executive

Bachelor Degree plus experience needed \$155,168 annual salary 850 annual average openings in Georgia

Human Resources, Training and

Labor Relations Specialist Bachelor Degree needed \$53,061 annual salary 150 annual average openings in Georgia

Marketing Manager Bachelor Degree plus experience needed \$94,307 annual salary 310 annual average openings in Georgia

Marketing Research Analyst Bachelor Degree needed

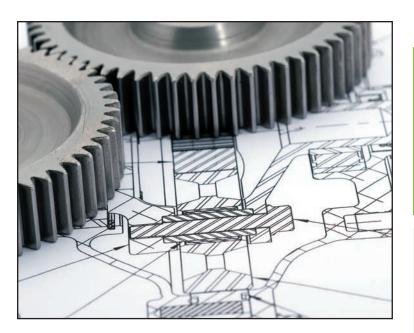
\$61,464 annual salary 210 annual average openings in Georgia

Personal Financial Advisor

Bachelor Degree needed \$75,754 annual salary 470 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Advertising Account Executive Airline Customer Service Agent Art Dealer and Director Barber and Salon Owner Brand Manager Cashier **Communications Specialist Creative Director Customer Service Representative** Demonstrator and Product Promoter **Desktop Publisher** Entrepreneur **Fashion Retailer** Floral Designer Funeral Director Insurance Agent Interior Designer Landscape Architect Logistics Specialist Market Research Analyst Media Buyer Mortgage Broker Product Development Management Public Relations Specialist Purchaser **Real Estate Agent** Retail Buyer and Salesperson Sales Representative Sports Marketer **Travel Agent**



Introduction to Engineering Design (IED) is a high school level course that is appropriate for 9th or 10th grade students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives 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

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

RECOMMENDED COURSES

- Algebra/Geometry
- Trigonometry/Physics

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

TECHNICAL COLLEGES

- State Registered Apprenticeships
- Special Purpose Schools
- On-the-Job Training
- Military

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

• TSA

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

ENGINEERING AND TECHNOLOGY PATHWAY

TOP CAREERS CHOICES

Civil Engineer Bachelor Degree needed \$56,259 annual salary

Electrical Engineer Bachelor Degree needed \$52,990 annual salary

Industrial Engineer Bachelor Degree needed \$47,720 annual salary

Materials Engineer Bachelor Degree needed \$51,420 annual salary

Mechanical Engineer Bachelor Degree needed \$47,900 annual salary

ADDITIONAL CAREER CHOICES

Civil Engineer Designer Drafter Machinist Manufacturing Mechanical Engineer Quality Control Inspector



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 problemsolving 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

- Basic Maintenance and Light Repair
- Maintenance and Light Repair 2
- Maintenance and Light Repair 3

RECOMMENDED COURSES

- Advanced Algebra/Trigonometry
- Business Essentials
- Computer Applications
- Engine Performance Concepts
- Entrepreneurship
- World Language
- Heating Ventilation and Air Conditioning Concepts
- Money Management
- Physics
- Preventative Maintenance Inspection
- Work-Based Learning

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES See www.GAFutures.org for additional information

- TECHNICAL COLLEGES
- ASE
- Automotive Technology/Technician
- Welding
- COLLEGES/UNIVERSITIES
- Education
- Business Management
- Automotive Engineering

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

SkillsUSA

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

AUTOMOBILE MAINTENANCE AND LIGHT REPAIR PATHWAY

TOP CAREERS CHOICES

Automotive Service Technician and Mechanics

Post-Secondary Vocational Award needed \$34,549 annual salary 1,000 annual average openings in Georgia

Bus and Truck Mechanic/Diesel Engine Specialist

Post-Secondary Vocational Award needed \$36,504 annual salary 380 annual average openings in Georgia

Electrical and Electronics Repairers,

Commercial and Industrial Equipment Post-Secondary Vocational Award needed \$47,611 annual salary 130 annual average openings in Georgia

Vocational Teacher, Post-Secondary School Bachelor Degree or higher plus work experience

\$44,637 annual salary 250 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Auto Manufacturer Sales Auto Manufacturer Service Auto and Body Technician Automotive Engineer and Mechanist Automotive Parts Sales and Sales Body Shop Manager Dealership and Shop Owner **DOT Salvage Inspector** Insurance Adjuster Parts Professional Quality Control Technician Retail Service Advisor and Director Dealership Specialized Technician Teacher Technician (ASE Certified) Warranty Clerk Waste Management (EPA)