



Preparing students for success after high school is an inherent component of Forsyth County Schools. 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, the Forsyth County School District has provided this planning guide for use by students and their parents.

Use this planning guide for the next four years, and use it to set career goals and plan for the world of future work. Go over the information in the guide together, and begin to have discussions concerning post high school plans and how you can reach the goals that you set. Bring this guide with you to each annual advisement appointment at your high school, and share with your advisor as you all work together to map out the next year's schedule of courses. Finally, mark your choices in the guide as you go through high school and as your career decisions possibly change and evolve.

This planning guide shows the clear connection between class work and future success, pointing out the relevance of academic learning in the classroom. It also provides information on a variety of occupations that differ in the scope of education and training required to obtain future employment.

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. This Career Pathways Planner is provided by the US DOE Carl Perkins Grant.





#### FORSYTH COUNTY SCHOOL DISTRICT

1120 Dahlonega Highway Cumming, GA 30040 770.887.2461 www.forsyth.k12.ga.us

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#### PUBLIC NOTICE FORSYTH COUNTY SCHOOL DISTRICT

The Forsyth County School District 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.

- Agriculture, Food, and Natural Resources
- Arts, Audio-Video Technology, and Communications
- Business, Management, and Administration
- Education and Training
- Energy
- Finance
- · Government and Public Administration
- · Health Science
- · Hospitality and Tourism
- Human Services
- Information Technology
- · Law, Public Safety, Corrections, and Security
- Manufacturing
- Marketing
- Science, Technology, Engineering, and Mathematics (STEM)
- Transportation, Distribution and Logistics

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



Dr. Valery Lowe
Director of College & Career Development
1120 Dahlonega Highway
Cumming, GA 30040
vlowe@forsyth.k12.ga.us
770-887-2461 x 202247

The information provided in the Career Planner is subject to change as updates and/or requirements become final from the Georgia Department of Education, Forsyth County School Board (policy), and/or other agencies such as the Georgia Student Finance Commission.

## FORSYTH COUNTY SCHOOL DISTRICT

#### **NOTICE OF NON-DISCRIMINATION**

The Forsyth County School District does not discriminate on the basis of race, color, religion, national origin, age, disability, or gender in employment decisions or educational programs and activities, including its athletic programs. Any student, employee, applicant for employment, parent or other individual who believes he or she has been subjected to harassment or discrimination by other students or employees of the school district based upon any of the factors listed above should promptly report the same to the principal of the school or the appropriate coordinator as listed below, who will implement the board's discriminatory complaints or harassment procedures. Students may also report harassment or discrimination to their school counselor. Equity coordinators for the school system are:

#### TITLE VI

Mr. Nathan Turner Students Dr. Cindy Salloum Personnel

#### TITLE IX

Mr. Nathan Turner Students Dr. Cindy Salloum Personnel

#### ADA and 504

Ms Sarah Taylor Students
Dr. Cindy Salloum Personnel

#### **SPORTS EQUITY**

Dr. Cindy Salloum Personnel

Equity coordinators may be contacted at the Forsyth County Board of Education and Professional Development Center, 1120 Dahlonega Highway, Cumming, Georgia 30040, (770) 887-2461. Students and employees will not be subjected to retaliation for reporting such harassment or discrimination. A copy of the discriminatory complaints procedure under Forsyth County School District Policy GAAA/JAA (Equal Opportunity/Discriminatory Complaints) or under Policy IDFA (Gender Equity in Sports) is located in the school district policy manual that is available on the school system web site.



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

Career, Technical, and Agricultural Education (CTAE) provides students with the opportunity to select at least three sequenced courses in a career pathway.

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

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

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

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



#### OVERVIEW OF CAREER CLUSTERS/PATHWAYS

- Georgia's 17 Career Cluster/Pathways provide a structure for organizing and delivering quality Career, Technical and Agricultural Education (CTAE) 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.



#### AGRICULTURE, FOOD AND NATURAL RESOURCES

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

#### 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.

#### **ENERGY**

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

#### **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.

#### **MANUFACTURING**

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

#### 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 CLUSTERS

#### OVERVIEW OF CAREER CLUSTERS/PATHWAYS

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#### APPROVED CAREER, TECHNICAL AND AGRICULTURAL EDUCATION EXPLORATORY PROGRAMS

#### Middle School Agriculture

Exploring Agricultural Education (Grade 6) Exploring Agricultural Education (Grade 7)

Exploring Agricultural Education (Grade 8)

#### Middle School Business and Computer Science

Business and Computer Science (Grade 6)

Business and Computer Science (Grade 7)

Business and Computer Science (Grade 8)

#### Middle School Career Development

Career Awareness (Grade 6)

Career Discovery (Grade 7)

Career Management (Grade 8)

#### 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)

#### Middle School Healthcare Science

Healthcare Science (Grade 6)

Healthcare Science (Grade 7)

Healthcare Science (Grade 8)

#### **Middle School Communications**

Broadcast and Graphic Communications (Grade 6)

Introduction to Communications (Grade 7)

Applications of Communications (Grade 8)

#### Middle School Transportation

Introduction to Ground, Air and Maritime Technology (Grade 6)

Foundations of Aerospace, Ground and Maritime

Transportation (Grade 7)

Investigation into Aerospace, Ground and Maritime Transportation (Grade 8)

#### Middle School Marketing, Sales & Services

Basic Skills of Marketing (Grade 6)

Exploring Marketing Education (Grade 7)

Pathways in Marketing (Grade 8)

# MIDDLE SCHOOL PERFORMANCE STANDARDS

Designed to meet the needs of young adolescents, 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 CTAE Program area course includes essential and relevant performance standards for math, science, language arts, and social studies. Middle school CTAE courses also reinforce Reading Across the Content, Technical Writing standards, Entrepreneurship standards, and CTAE Foundation Skills. CTAE middle school courses feature rigorous performance standards that students master to help prepare them for choosing a high school career pathway that interests them.



# Find Your Passion! Middle School Career Pathway Options











**/ICKERY CREEK** Middle School

Middle School



Business &

A





Healthcare

Engineering &

Technology



Junior Achievement Entrepreneurship &

Healthcare

Financial Literacy

Marketing

Computer Science

Engineering &

Business &

Technology

Engineering & Technology

Junior Achievement Entrepreneurship & Financial Literacy

Marketing

All students enrolled in career and technical education have the opportunity to apply for Honors Mentorship (job shadowing) or Work-Based Learning (internships) within their pathway. Visit www.forsyth.k12.ga.us/ccd for more information or contact a Career Development Coordinator!

# SCHOOL KEY SYSTEM Throughout this book, a school key system is used to indicate which programs, classes, and clubs are offered at each school. Alliance Academy Denmark High School Forsyth Academy Forsyth Central High School Forsyth Virtual Academy West Forsyth High School West Forsyth High School

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ENERGY	Examining the Teaching Profession Contemporary Issues in Education	
ENERGY	Examining the Teaching Profession Contemporary Issues in Education Teaching as a Profession Practicum  ENERGY SYSTEMS PATHWAY Foundations of Energy and Power Technologies Energy and Power: Technology	
-	Examining the Teaching Profession Contemporary Issues in Education Teaching as a Profession Practicum  ENERGY SYSTEMS PATHWAY Foundations of Energy and Power Technologies Energy and Power: Technology	4
-	Examining the Teaching Profession Contemporary Issues in Education Teaching as a Profession Practicum  ENERGY SYSTEMS PATHWAY Foundations of Energy and Power Technologies Energy and Power: Technology Appropriate and Alternative Energy Technologies  ADVANCED ACCOUNTING PATHWAY Introduction to Business and Technology Principles of Accounting I	4

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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. **Alliance Academy** Lambert High School **Denmark High School** North Forsyth High School Forsyth Academy South Forsyth High School Forsyth Central High School West Forsyth High School Forsyth Virtual Academy

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Fast job growth  $\checkmark$  Above average wages  $\checkmark$  At least 400 expected annual job openings

## Georgia's reers to 2026

#### The careers in this chart have it all!

Skills

1

Skills and Abilities				/		an	Sk d Al	Alliet.	25		8	/				Act	Vork ivitie	es		/ Och
advanced skills required    o moderate skills re	quire	d		1	/	/	/	/	/	/	" lon	/	Sthers	no different	/when	/	ve Oh.: Oh.	sects /	ifiz Why	/ Name
Work Activities			Soft	laking/	Bull	/ ,	hensi	dines	/	Dreho	hers	chino	0.00	t Equi	18	18.50	100	Info	. & Prioritiz W	1,000
frequently found	d		nalqo,	V Holes	inc		and and	Spirid She	/ /	COM	S for O	S & Te	es.n.	S Spec	maluno	Matr	M-allb-M	Cata or	See Plan	l ejGloar
unt jobs have faster than state annual average job growth, above the state annual average wage, and have at least 400 annual openings.	1	dud Thinkin	Service Decision Solving	Lies Oriente	Oral E Reading	Deuta Spiession C.	Real Party	Write Steadings	Assim Expression	Co. Justing & Car	Com Training for Others	Cont.	Intern Machines J. O'Banin	Mon Mith C. Mapact Equip	Phus Processes	Pro- Acts/	Sch. Analyze D. Move Oh.	71. redule/Organ	"Interior Creatively Profits With 2017 Edition .	2016-26 A.
Doctoral or professional degree																				
Physical Therapists	0	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	\$86,800	410
Physicians & Surgeons, All Other	0	•	•	•	•		•	•	•	0	•		•	•		•	0	•	\$224,200	440
Postsecondary Teachers, All Other	•	•	•	•	•		•	•	0	•	•		•	•		•	•	•	\$77,200	490
Master's degree																				
Education Administrators, Elem & Sec	•	•	•	•	•		•	•	•	•	•	0	•	•		•	•	•	\$94,400	730
Educational, Guidance, School, & Voc Counselors	•	•	•	•	•		•	•	•	0	•		•	•		•	•	•	\$55,300	1,270
Healthcare Social Workers		•	•	•	•			•	•	•				•	Г	0	•	•	\$51,200	580
Instructional Coordinators		•	•	•	•		•	•		•	•		•	•		•	0	•	\$57,600	700
Nurse Practitioners			•	•	•		•	•		•	•	0	•	•		•	•	•	\$101,900	420
Physician Assistants		•	•	•	•	0			•	0	•		•	•		•	0	•	\$100,800	400
Bachelor's degree																				
Accountants & Auditors	•	•	П	•	•	0	•	•	П	П	•		•		Г	•	•	•	\$78,100	4,200
Administrative Services Managers	•	•	•	•	•			•			•		•	•		•	•		\$93,900	880
Airline Pilots, Copilots, & Flight Engineers	•	•	•	•	•	•		•				0	•	•		•	•		\$92,300	800
Business Operations Specialists, All Other	0	•	0	•	•	•	•	•		0	•	0	•	•	0	•	•	•	\$71,800	3,650
Civil Engineers	•	•	0	•	•		•	•		•		0	•	•		•	•	•	\$90,200	880
Coaches and Scouts	•	•	•	•	•			•		•			•		•	0	•	•	\$47,500	880
Compliance Officers	0	•	0	•			•	•			•	0	•	•		•	•		\$62,400	770
Computer & Information Systems Managers		•	0	•	•		•	•		•	•		•	•		•	•	•	\$138,800	1,040
Computer Occupations, All Other	•	•	0	•	•		•	•		•	•		•			•	•	•	\$88,200	920
Construction Managers		•	0	•	•		•	•		•	•	0	•	•		•	•	•	\$105,800	720
Cost Estimators	•	•		•	•		•	•		•	•		•			•	•	•	\$62,300	640
Elementary School Teachers, Exc Spec Ed	•	•	•	•	•		•	•	•	•	•		•	•		•	•	•	\$55,600	4,620
Financial Analysts	•	•		•	•			•					•	•		•	0	•	\$80,800	700
Financial Managers	•	•		•	•			•		•	•		•	•		•	•		\$143,700	1,740
Financial Specialists, All Other	•	•	0	•	•		•	•		•	•		•	•		•	0	•	\$77,900	440
General & Operations Managers	•	•	•	•	•			•		•	•		•	•		•	•	•	\$116,400	8,910
Health Educators	•	•	•	•	•		•	•	•	•	•		•			•	•	•	\$77,100	460
Human Resources Managers	0	•	•	•	•		•	•	•	•	•		•	•		•	•	•	\$122,400	460
Human Resources Specialists	0		0	O	•		•			•	•		•			•	•	•	\$61,200	1,940
Industrial Engineers	•	•		•	•			•	Г	•	•	•	•	•		•	•	•	\$82,800	580
Kindergarten Teachers, Exc Spec Ed	•	•	0	•	•		•	•	•	•				•			•	•	\$53,300	740
Loan Officers		•		•				•	П										\$76,900	790

://explorer.gdol.ga.gov/gsipub/index.asp?doc



/ Fast job growth  $\checkmark$  Above average wages  $\checkmark$  At least 400 expected annual job openings

## Georgia's reers to 2026

#### The careers in this chart have it all!

Skills

Skills and Abilities			9	/		ar	id Al	oilitie	16	5 509		/					ivitie	28	an managa	/ ch
advanced skills required	require	d	/	0	/	/	/	/	/	/	uou/	/3	iners	mount		/	Spungo	ects /	& Prioritiz Why	Survey
W. J. A. 44 - 44			Solvin	skino	100	/	lensin.	dines	/	rehen	lets/	hing	Organia de	Equip	2	Sum	10 a	hifor	Priori	36.5
Work Activities  ● frequently found ○ occasionally fou	nd	/	plem	Muc	tructi	/	Jandy	Stea	1	ound	0	Tea.	side /	Tood !	Pute	Patris	Mon	a or		No la
Trequently found	i Ka	100	0/20	Jed / ba	ting	0/20	H.		Silon		Training of Others	190	nes/In	100	/ sess	12	100	100	Week Plan, 8	1 / B
10T jobs have faster than state annual average job growth, above the state annual average wage, and have at least 100 annual openings.		dud. Thinkin	Service Desirablem Solving	Lies Orient	Oral E Reading	Deve Cappession C	Resembling	Write Steadiness	Assier Expression is	Con. 198 Ca	Come Training o	Control	Interaction of the state of the	Monitor With Come	Physical Proce	Proceal Acts/	School Malyze D. Move O.	This edule Organis	Inning Gentleby & Profit	2016.26.
Bachelor's degree continued																				
Logisticians	•	•	•	•	•		•	•		•	•		•	•		•	•	•	\$73,400	580
Management Analysts	•	•	•	•	•		•	•		•	•		•	•		•	•	•	\$96,900	2,650
Market Research Analysts & Marketing Spec	•	•		•	0		•	•			•		•	•		•	•	•	\$64,200	2,500
Marketing Managers	•	•	•	•	•		•	•		•	•		•	•		•	•	•	\$138,600	730
Mechanical Engineers	•	•	0	•	•		•	•		0	•	0	•	•		•	0	•	\$83,700	430
Medical & Health Services Managers	•	•	•	•	•		•	•		•			•	•		•	•		\$109,100	840
Middle Schl Teachers, Exc Spec & Career/Tech Ec		•	•	•	•		•	•	•	•	•		•	•		•	•	•	\$57,100	2,420
Personal Financial Advisors	0	•		•	•		•	0	•	•	•		•	•		•	•	•	\$124,000	680
Producers & Directors	•	•		•	•		•	•			•		•	•		•	•	•	\$77,000	550
Public Relations Specialists	•	•	•	•	•		•	•		•	•		•	•		•	•	•	\$58,200	620
Registered Nurses	•	•	•	•	•	•	•	•	•	•	•	0	•	•	•	•	•	•	\$65,600	5,410
Sales Managers	•	•	•	•	•		•	•	Г	•	•		•			•	•	•	\$130,800	1,580
Secondary Schl Teachers, Exc Spec & Career/Tech E	d •	•	•	•	•		•	•	•	•	•		•	•		•	•	•	\$57,100	2,220
Software Developers, Applications	•	•		•	•		•	•		0			•	•		•	0	•	\$103,000	2,300
Training & Development Specialists	•	•	•	•	•		•	•	8.8	•	•		•	•		•	•	•	\$62,300	1,120
Associate's degree																				
Dental Hygienists	0	•	•	•	•	•	•	•	•	0		•	•	•	•	0	•		\$66,100	540
Paralegals & Legal Assistants	0	•	0	•	•		•	•			•	,	•	•		•	•		\$53,600	1,060
Postsecondary non-degree award	Ė																			
Aircraft Mechanics & Service Technicians	•	•	•	0	•	•	•	•	•	•	Г	•	•	•	•	•	•	•	\$70,000	800
Some college, no degree	Ė	ì																		
Computer User Support Specialists	•	•	•	•	•	0	•	•		0	П	0	•	•		•	0	•	\$54,200	1,930
High school diploma or equivalent	Ĺ		100	a la maio				00												
Automotive Body & Related Repairers	ि	Т	Г	0	•	•	Г		Г	Г	Г	0		•	•		П	П	\$51,500	620
Electrical Power-Line Installers & Repairers	•	•		•	•	•	•	•	•	•	•	•	S-1	•	•	•	0	•	\$51,000	630
Supvrs of Construction Trades & Extraction Worke	rs •	•	•	0	•	•	•	•		0	•	•		•	•	•	•	•	\$62,400	1,590
Supvrs of Helpers, Laborers, & Material Movers, Han	d •	•	0	•	•		•	•		•		•	•	•	•	•	•	•	\$51,600	1,010
Supvrs of Mechanics, Installers, & Repairers	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	\$63,500	1,460
Insurance Sales Agents	•	•	0	•	•		•	•			•		•	•		•	•		\$67,800	1,630
Production, Planning, & Expediting Clerks	•	•		•	•		•	•		0		0	•	•		•	•	•	\$48,900	1,290
Property, Real Estate, & Community Assoc Mgrs	•	•	0	•	•		•	•		•	•	0	•	•		•	•	•	\$86,700	700
Sales Reps, Services, All Other		•		•	•			•		0	•		•	•		•	•	•	\$58,800	4,050
Sales Reps, Wholesale & Mfg, Exc Tech & Scientific Produc	ts O		0																\$63,600	6,590

<sup>\*\*</sup>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.

## **GEORGIA'S STEM** Careers to 2026

#### Science I Technology I Engineering I Mathematics

Knowledge									Know	vledg	e									Educ	ation	1	Occupational Characteristics		
Understanding of principles and facts of subject matter  full knowledge required  some knowledge required  Education  Typical education needed to enter an occupation	Administration and Management	istry	Design/Bldg and Construction	Clerical/Customer and Personal Svc	Telecom/Communications and Media	Computers and Electronics	d Accounting	Training	Engineering and Technology	age	Law and Govt/Public Safety and Security		Mechanical/Production and Processing	Dentistry	Personnel and Human Resources		Psychology/Saciology and Anthropology	seling	Doctoral or Professional Degree	99.	gree	HS Diploma/Assoc Degree/Some College	2017 Edition - Georgia Wage Survey	aal Openings	
jobs have faster than state annual average job growth, above the state annual average wage, and have at least 400 annual openings.	Administratio	Biology/Chemistry	Design/Bldg a	Clerical/Custo	Telecom/Com	Computers ar	Economics and Accounting	Education and Training	Engineering a	English Language	Law and Govt	Mathematics	Mechanical/P	Medicine and Dentistry	Personnel and	Physics	Psychology/Si	Therapy/Counseling	Doctoral or Pr	Master's Degree	Bachelor's Degree	HS Diploma/A	2017 Edition	2016-26 Annual Openings	
Life and Physical Science, Engineering, Mat	hem	natio	cs, a	ind	Info	rm	atic	n T	ech	nol	ogy	Occ	ира	tio	ns	_						_			
Aerospace Engineers	$\perp$		0			•			•	•		•	•			•					1		\$112,400	240	
Civil Engineering Technicians	L		•			•			•	•	0	•									L	1	\$47,800	190	
Civil Engineers (III)	•		•	0		•	•		•	•	0	•			•	•					1		\$90,200	880	
Computer & Information Systems Managers	•			0		•		•	•	•		•			•		L				1		\$138,800	1,040	
Computer Network Architects	L		0	0	0	•			•	•		•			- 5						1		\$117,200	350	
Computer Network Support Specialists	•			0	•	•			•	•												1	\$73,100	580	
Computer Occupations, All Other	•		O	0	•	•	•		•	•		•					0				1		\$88,200	920	
Computer Systems Analysts				0		•			٠	•		•									1		\$93,500	1,150	
Computer User Support Specialists				0	•	•						•										1	\$54,200	1,930	
Database Administrators				0	•	•				•		•									1		\$89,600	350	
Electrical & Electronics Engineering Techs			O	0		•			•	•		•	•			•						1	\$60,200	360	
Electrical Engineers			0		3	•			•	•		•	0	(F 15)	. 25	•					1		\$90,400	340	
Electronics Engineers, Exc Computer	Г		0	0	0	•			•	•		•	•			•					1		\$93,700	400	
Engineers, All Other		•	0	0	0	•		•	•	•	0	•	•			•					1		\$92,100	230	
Environmental Engineers	•	•	0	0		•		•	•	•	•	•	O			•					1		\$68,200	140	
Industrial Engineers			0	0		•		•		•		•	•								1		\$82,800	580	
Information Security Analysts				0		•		•			0										1		\$91,000	210	
Mechanical Engineers		0	0	•		•		•	•	•		•		7		•	П				1		\$83,700	430	
Medical Scientists, Exc Epidemiologists		•				•	П					•	•				Г		1				\$64,000	150	
Network & Computer Systems Administrators						•						•									1		\$88,200	750	
Operations Research Analysts						•				•		•	o								1		\$64,300	240	
Sales Reps, Wholesale & Mfg, Tech & Scientific Products				o		•				•		•	O								1		\$88,000	1,040	
Software Developers, Applications	Г		0	0		•				•		•									1		\$103,000	2,300	
Software Developers, Systems Software	Г		0	0	0					•		•									1		\$98,600	970	
Statisticians	Г						П		Г	•		•			П		П			1			\$87,200	100	
Surveying & Mapping Technicians	Г		•	0		•						•	-	() — () ()								1	\$41,100	240	
Web Developers	Г		0	0	0	•				•		•									Г	1	\$78,200	350	
Health Occupations																			F2 - 50						
Dental Hygienists		0		0										•			0					1	\$66,100	540	
Dentists, General	•	0		0			•	•		•				•	•		0		1				\$176,100	160	
Diagnostic Medical Sonographers	П	0		•		•		•		•				•		0	0					1	\$63,400	140	
Emergency Medical Techs & Paramedics		•		•	0	3 0		•			•	•		•	- 8		0	•				1	\$33,400	780	
Family & General Practitioners		•		0		- 0				•		•		•			0	•	1				\$213,800	180	
Health Diagnosing & Treating Practitioners, All Other		•												•						1			\$103,500	190	



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

## **GEORGIA'S STEM** Careers to 2026

#### Science I Technology I Engineering I Mathematics

Knowledge Understanding of principles and facts of subject matter	Knowledge										L	Edu	cation	Occupational Characteristics										
full knowledge required     some knowledge required  Education	anagement		ruction	Personal Svc	ons and Media	nics	ting		yBolo		Law and Govt/Public Safety and Security		Mechanical/Production and Processing		Resources		Psychology/Sociology and Anthropology		il Degree			HS Diploma/Assoc Degree/Some College	Wage Survey	sgu
Typical education needed to enter an occupation	and Mi	7.	Const	er and	unicati	Electro	Accoun	raining	Techn		ublic S		duction	entistr	uman		ology a	ling	essiona	0200	2	oc Deg	eorgia	Openi
jobs have faster than state annual average job growth, above the state annual average wage, and have at least 400 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/P	Mathematics	Mechanical/Proc	Medicine and Dentistry	Personnel and Human Resources	Physics	Psychology/Soci	Therapy/Counseling	Doctoral or Professional	Master's Degree	Bachelor's Degree	HS Diploma/Ass	2017 Edition - Georgia Wage Survey	2016-26 Annual Openings
Health Occupations Continued																								
Health Technologists & Technicians, All Other	•	0		•		•		•		•	0	•		•	•		0		Г			1	\$42,200	340
Internists, General		•	П	•		•		•		•	•	•		•	•		•	•	1				\$255,200	90
Licensed Practical & Licensed Vocational Nurses		0		•				•		•	•	•		•			•	•				1	\$40,700	2,250
Med & Clinical Laboratory Technicians	П			•						•	0	•		•					Г			1	\$36,700	430
Med & Clinical Laboratory Technologists		•		•				•		•		•	0	•	0						1		\$58,600	370
Med Records & Health Information Techs				•		•				•												1	\$38,900	450
Nurse Practitioners		•		•	0	•		•		•	•	•		•				•		1			\$101,900	420
Nursing Instructors & Teachers, Postsec		•		•	0	•		•		•	0	•		•			•	•		1			\$65,400	110
Occupational Therapists		0		0				•						•			•	•		1			\$83,100	240
Pharmacists		•		•		•				•	0	•		•			0	•	1				\$117,600	510
Pharmacy Technicians				•						•		•		•	0	0:):			Г			1	\$29,400	1,170
Physical Therapists				•				•		•				•		2-03	0	•	1				\$86,800	410
Physician Assistants		•		0		•		•		•				•			•	•		1			\$100,800	400
Physicians & Surgeons, All Other		•		0		•	•	•		•	•	•		•	•	•	0	•	1				\$224,200	440
Radiologic Technologists		0		•		•		•		•	0	•	•	•		•	0					1	\$52,600	360
Registered Nurses		0		0		•		•		•		•		•			0	•			1		\$65,600	5,410
Respiratory Therapists		•		0		•		•		•		•		•			0					1	\$55,200	310
Speech-Language Pathologists				0				•		•				•			0	•		1			\$74,100	260
Surgical Technologists				0				•		•				•								1	\$41,900	350
Veterinarians		•		0						•		•		•					1				\$86,900	120
Veterinary Technologists & Technicians		0		•						•		•		•								1	\$31,000	310
Architecture Occupations																								
Architects, Exc Landscape & Naval	•		•	0		•	•	17-17	•	•	•	•			•	()=(°					1		\$98,300	250
Architectural & Civil Drafters			•	0		•			•	•	0	•										1	\$53,800	300
Architectural & Engineering Managers	•		0	0		•			•	•	•	•	•		•	•					1		\$138,100	370
Landscape Architects		0	•	•	O	•	•		•	•	•	•									1		\$71,400	90
Social Science Occupations																								
Clinical, Counseling, & School Psychologists				•		•		•		•	•	•			0.	or 35	•	•	1				\$83,400	230
Economists						•	•	•		•		•								1			\$105,100	30
Political Science Teachers, Postsec				0	0	•		•		•	0					- 13	•		1				\$76,400	40
Psychology Teachers, Postsec						•		•		•		•					•	•	1				\$68,700	70
Social Science Research Assistants	•			•		•		•		•		•					•				1		\$46,400	100
Social Scientists & Related Workers, All Other	•		•	0					•	•	0	•									1		\$68,000	130
Urban & Regional Planners			0	0	0			•				•					0			1			\$56,800	50

Fig. 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.



#### CTAE INDUSTRY CERTIFICATION INITIATIVE

When a program became industry certified, it received a "stamp of excellence", which represents the apex of program quality. Only those programs that have successfully undergone rigorous reviews by leaders from business and industry are recognized with this distinction.

The State Department of Education is committed to the industry certification process as a part of its effort to strengthen technical and academic standards for all Career, Technical and Agricultural Education (CTAE) programs.

This formal process strengthens all program components, including:

- Classrooms and labs which are equipped with state-of-the-art equipment and technology;
- CTAE and academic performance standards that are aligned to national standards;
- In-depth, project-based instruction in all curriculum areas;
- 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.

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.

#### **CTAE INDUSTRY CERTIFICATION**

#### **INDUSTRY CERTIFIED PROGRAMS** IN FORSYTH COUNTY

#### Automotive (Certified by NATEF)

Forsyth Central High School

#### **Business and Computer Science** (Certified by SHRM)

Lambert High School North Forsyth High School South Forsyth High School

#### **Culinary (Certified by ACFEF)**

Lambert High School South Forsyth High School West Forsyth High School

#### **Engineering (Certified by ITEGA)**

Lambert High School South Forsyth High School West Forsyth High School

#### Marketing (Certified by AMA)

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

#### **FY19 Industry Certification Process**

A/V, Technology, and Film Pathways **Business and Computer Science Pathways Engineering Pathways** Healthcare Science Pathways Marketing Pathways

## **CTAE INDUSTRY CERTIFICATION**

#### **HOW DO STUDENTS BENEFIT?**

- The student is ensured participation in a program that has been carefully interfaced with current industry standards thus helping to increase their qualifications toward successful employment.
- The curriculum and the delivery method for that curriculum taught to students are improved and updated enabling the student to receive high quality instruction.

#### HOW DOES THE COMMUNITY VIEW A SCHOOL WHERE PROGRAMS HAVE UNDERGONE THE INDUSTRY **CERTIFICATION PROCESS?**

- The school is viewed as having exceptional programs. Through the industry certification process, schools are better able to align curriculum with recognized standards to aid with providing better career opportunities for students.
- · Communities understand that schools which pursue this distinction are committed to improving student preparation and ensuring that Georgia's workforce meets the demands of the 21st century.

#### WHAT DOES CERTIFICATION REPRESENT TO THE BUSINESS COMMUNITY/EMPLOYERS IN THE SCHOOL'S SERVICE AREA?

- It represents that they will receive qualified students who will make productive employees.
- It represents that they have had meaningful involvement in public education and have contributed to the development of a highly-skilled, future workforce for Georgia.



#### NONTRADITIONAL 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

#### LOCAL EDUCATION AGENCY ACCOUNTABILITY

Two different methods of evaluation/review are used try the state to assist local systems in their compliance of federal legislation regarding Perkins funding and gender equity.

#### **CTAE PROGRAM REVIEWS**

- · Required by Perkins
- Conducted with 1/5 of systems annually
- Serves as mechanism for evaluation both internally and externally
- Provides professional learning for review teams

#### METHODS OF ADMINISTRATION (MOA) COMPLIANCE REVIEWS

- Required by Office for Civil Rights
- Conducted in 5 systems per year based on a federally approved targeting plan
- Serves as a mechanism for evaluation both internally and externally
- Provides professional learning for compliance review teams

Keeping accurate documentation of non-traditional education progress made for each Georgia school system is critical to measure continuous improvement in program concentrations and pathways.

# NONTRADITIONAL OCCUPATIONS 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.

# CTAE FOURTH SCIENCE OPTIONS

The following courses count towards satisfying the fourth science requirement and a CTAE pathway completion requirement and have been approved by the Board of Regents as a fourth science.

COURSE NAME	CTAE PATHWAY
Appropriate and Alternative Energy Technologies	Energy
Energy and Power Technologies	Energy
Applications of Biotechnology	Health Science
Essentials of Biotechnology	Health Science
Essentials of Healthcare	Health Science
Sports Medicine	Health Science
Food for Life	Human Services
Food Science	Human Services
Forest Science	Agriculture, Food and Natural Resources
General Horticulture and Plant Science	Agriculture, Food and Natural Resources
Natural Resources Management	Agriculture, Food and Natural Resources
Animal Science Technology/Biotechnology	Agriculture, Food and Natural Resources
Plant Science and Biotechnology	Agriculture, Food and Natural Resources
Advanced AC and DC Circuits	Science, Technology, Engineering, & Mathematics
Advanced Placement Computer Science	Science, Technology, Engineering, & Mathematics
International Baccalaureate Computer Science, Year One	Information Technology
International Baccalaureate Computer Science, Year Two	Information Technology
Advanced Placement Computer Science Principles	Information Technology
Computer Science Principles	Information Technology
Programming, Games, Apps and Society	Information Technology
Web Development	Information Technology
Embedded Computing	Information Technology
Game Design: Animation and Simulation	Information Technology
Forensic Science and Criminal Investigations	Law, Public Safety, Corrections and Security





All CTAE students enrolled in a third-year career pathway course or work-based learning during the school year will participate in organizational ethics and soft skills training. Through a sequence of activities during the school year, students will spend time developing personal philosophies around employability standards and the job-search process, with the Mock Interview Week as the culminating activity at their high school. Over 2,000 students will participate in this experience during the school year!

Mock interviews will expose each student to the interview portion of the job search process, as well as provide feedback on the development of resumes and other career-related documents. This event will be community-driven, as volunteers from across the county spend time creating an experience that will help students learn what is expected in a job interview, while also providing constructive feedback on all aspects on the interview process. A focus during the school year includes the following standards:

- Discipline and Character
- Attendance and Punctuality
- Job Shadowing and Community Service Projects
- Productivity and Academic Performance
- Responsibility and Organization
- Attitude and Respect
- · Teamwork and Work Habits
- Self-Management and Time Management
- Oral and Written Business Communication Skills
- Appearance and Professional Image



Students who successfully complete the requirements of this intense focus will receive GeorgiaBEST (Business Ethics Student

Training) certification awarded by the Georgia Department of Labor. Georgia businesses and hiring managers are recognizing the importance of GeorgiaBEST and understand that these students have gone above and beyond to prepare themselves for the workplace.

## CTAE **MOCK**

# **INTERVIEWS**

#### **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.

#### **MOCK INTERVIEWS**

**DENMARK HIGH SCHOOL** 

February 20-22, 2019

SOUTH FORSYTH HIGH SCHOOL February 25-March 1, 2019

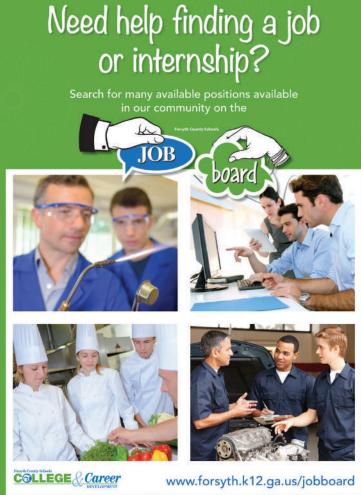
NORTH FORSYTH HIGH SCHOOL February 25-March 1, 2019

LAMBERT HIGH SCHOOL March 4-8, 2019

WEST FORSYTH HIGH SCHOOL March 11-15, 2019

FORSYTH CENTRAL HIGH SCHOOL March 11-15, 2019





#### FINDING A JOB THROUGH JOB BOARD

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

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



FCS College and Career Development seeks to provide an ongoing partnership between education and business/industry to prepare the students of Forsyth County with the skills necessary to meet world-class standards, successfully continue life-long learning, and enter the marketplace as productive citizens. Career pathways provide "seamless" instruction in career and technical education that connects academic and technical skills to future educational and career opportunities. Options within the program offer curriculum and instruction linked to industry standards in labs featuring the latest technology and equipment replicating simulated work environments. Successful completion of a career pathway also allows students to industry credentialing required in today's job market.

Career and technical education opportunites integrate with all of the secondary courses of study through various career pathways offered at middle and high schools, along with internship and job shadowing opportunites at the high school level. The commitment to complete a career pathway is never binding and can always be changed. The goal is not to require high school students to choose a major course of study as a college student would, but to begin to think, to study, to plan, and to set goals for the future and the career that awaits. It also allows students to:

- blend rigorous academic/technical preparation
- discover their interests and passions, empowering them to choose the educational pathway that will lead to success in high school, college and career
- utilize career development services
- experience all aspects of a business or industry
- plan for transitions into post0secondary opportunities

After graduation high schoo, students continue post-secondary education at specialty schools, technical colleges, community colleges, and major universities across the country. In addition, several of the career pathways are articulated for college credit. While pursuing additional education, students may use Hope and State Aid Programs (which include both the Zell Miller Scholarships and Zell Miller Grants), Federal Aid, and other scholarship opportunites posted at district high schools.



# COLLEGE & CAREER DEVELOPMENT

Forsyth County Schools offers a variety of career pathways that meet the demands of the modern workplace by equipping students for college and career. Areas include:

- Aerospace: Flight Operations
- Agriculture
- Arts, A/V Technology, and Communications
- · Biotechnology Research and Development
- · Business, Management, and Administration
- · Computer Science
- · Cosmetology
- · Culinary Arts
- · Cybersecurity
- Distribution and Logistics
- Engineering and Technology
- · Energy Systems
- Entrepreneurship
- · Fashion, Merchandising, and Retail Management
- Finance: Accounting and Financial Services
- Firefighting
- Food and Nutrition
- Government and Public Administration/JROTC
- Health Science and Health Information
- · Hospitality and Tourism
- Human Resource Management
- · Law Enforcement: Criminal Investigations
- Legal Services
- Manufacturing
- Marketing and Management
- Mechatronics
- Programming
- · Sports and Entertainment Marketing
- Sports Medicine
- Teaching as a Profession
- Transportation/Automotive Service Technician
- · Web Development



To be eligible for the Dual Enrollment program, a student must:

- Be enrolled in the ninth, tenth, eleventh or twelfth grade in accordance with O.C.G.A. §20-2-690(c);
- Be admitted to an eligible, participating USG, TCSG or Private postsecondary institution as a dual credit enrollment student;
- Be enrolled in courses listed in the approved Dual Enrollment Course Directory;
- Maintain satisfactory academic progress as defined by the eligible postsecondary institution:
- Complete the Dual Enrollment online application which includes three parts: Student and Parent/ Guardian, High School and Postsecondary Institution. All three sections are completed and submitted to Georgia Student Finance Commission;
- Complete required advisement conference with the high school counselor along with parent/guardian prior to 1st, 2nd and/or summer semesters of each participating school year completing both Dual Enrollment program documents as well as the district Dual Enrollment document. It is vitally important that students meet with high school counselor to ensure all prior approvals and course alignment occur. Not completing this step could lead to inability to participate in Dual Enrollment if requirements are not met!

Students, who meet all eligibility requirements, receive a student-specific award amount to be applied toward tuition, mandatory fees and books. In addition, postsecondary credit hours taken as a Dual Credit Enrollment student, for which Dual Enrollment payment is made are not counted as "attempted-hours" nor are they included in the "combined paid-hours" limit for the purposes of HOPE Scholarship or Zell Miller Scholarship eligibility.

School counselors have Dual Enrollment information and this link is also helpful:

https://www.GAfutures.org/Financial\_Aid\_Planning/Scholarships/Grants\_and\_Scholarships/Accel\_Program.aspx

## DUAL ENROLLMENT



Dual Enrollment program provides district students the opportunity to be "dual credit enrolled". This means a Dual Enrollment student is enrolled at both the high school and college or technical college. In this program a student may be part time or full time at the postsecondary school. The student receives credit for approved courses on the high school transcript as well as their college or technical college transcript. Thus, Dual Enrollment students take postsecondary coursework for credit towards both high school graduation and postsecondary requirements. Beginning with Fall term 2016 (FY 2017) the program is offered during all terms of the school year: fall, spring and summer semesters.

### INFORMATION NIGHTS FOR 2019-20 ENROLLMENT



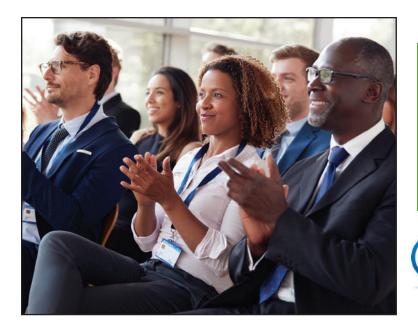
UNIVERSITY OF NORTH GEORGIA January 24, 2019 at 6PM January 31, 2019 at 6PM

Cumming Campus 300 Aquatic Circle, Cumming, GA 30040 470-239-3100



#### LANIER TECHNICAL COLLEGE February 6, 2019 at 6PM

Forsyth Campus 3410 Ronald Reagan Blvd Cumming, GA 30041 678-341-6633



## WORKFORCE FORSYTH



In 2014, Forsyth County Schools (FCS), in partnership with the Cumming–Forsyth County Chamber of Commerce, Lanier Technical College, and the University of North Georgia, launched Workforce Forsyth, a community initiative focused on developing strategies to support Career, Technical, and Agricultural Education (CTAE) in the district. Key next steps for the partnership focused on aligning career education efforts, guiding pathway creation, expanding classroom participation, and enriching curricula.

Building on the initial efforts, FCS is working to create a community workforce development plan. This effort builds on the initial Workforce Forsyth plan and has led to the creation of this roadmap to guide CTAE programing within the school district over the next three school years (2018–2021). This plan presents priorities to guide investments in and strategies for workforce development.

#### THE PROCESS

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

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

To reflect upon the findings from the needs assessment and to prepare for priority planning, steering committee members conducted an environmental scan. This exercise challenged members to identify specific strengths, opportunities, aspirations, and risks (SOAR) of and to FCS CTAE. Through this SOAR analysis, the committee members gained a more thorough understanding of the environment in which CTAE programs are administered. This session built on information gathered during the needs assessment and provided a more holistic understanding of how CTAE should move forward in the coming years. Four questions guided committee members through this portion of the process:

- 1. What are the greatest strengths of CTAE in Forsyth County?
- 2. What are the best opportunities for CTAE in Forsyth County?
- 3. What do we want CTAE in Forsyth County to be known for?
- 4. What are the greatest risks/barriers to achieving our aspirations for the program?

In the final stage of the development process, committee members identified four priorities that will guide FCS CTAE over the next three years. The committee considered the information gathered during the needs assessment and environmental scan to articulate the priorities and values discussed below. Additionally, the steering committee developed a set of values to guide future investments and decisions.

FCS is also implementing a Career, Technical, and Agricultural Education Excellence Model during the 2018-2019 school year. The model will identify best practices, metrics, and aspirational goals for every CTAE program in the district. Teachers and administrators will use the model as a program planning and improvement tool.

	Workforce Forsyth 2.0 P	riorities
	Short-Term Strategies	Long-Term Strategies
Priority 1 Marketing & Outreach Plan	Engage with current and potential stakeholders     Host a stakeholder showcase	Vertical Alignment between elementary, middle, and high school
Priority 2 Build & Evaluate a Soft Skills Program	Establish a district-wide Soft Skills Committee     Explore introducing soft-skills in earlier grades	Evaluate programs to ensure they are meeting student needs and industry needs
Priority 3 Build Leadership Capacity for All Students	<ul><li>Engage more students in CTSOs</li><li>Redefine the role of the counseling staff to</li></ul>	Each school in the district should be offering at least one leadership development program
Priority 4 Grow Partnerships	Update and evaluate existing business partnerships     Leverage business partnerships to increase teacher externship opportunities	Develop deeper relationships with business partners







#### 2018-19

#### AGRICULTURE CLUSTER

Agriculture Leadership in Animal Production Pathway (N) Basic Agriculture Science Animal Science Technology/Biotechnology Agribusiness Management and Leadership\* Work-Based Learning or Honors Mentorship

Agriculture Leadership in Horticulture Pathway (N)

Basic Agriculture Science General Horticulture and Plant Science Agribusiness Management and Leadership\* Work-Based Learning or Honors Mentorship

✓ Companion Animal Systems (D)

Basic Agriculture Science Animal Science and Biotechnology Small Animal Care\* Work-Based Learning or Honors Mentorship

✓ Horticulture and Animal Systems Pathway (N)

Basic Agriculture Science General Horticulture and Plant Science Animal Science and Biotechnology\* Work-Based Learning or Honors Mentorship

√ Veterinary Science (D)

Basic Agriculture Science Animal Science and Biotechnology Veterinary Science\* Work-Based Learning or Honors Mentorship

#### ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS CLUSTER

Audio-Video Technology and Film Pathway (C, L, N, W)

Audio & Video Technology & Film Audio & Video Technology & Film II Audio & Video Technology & Film III\* Work-Based Learning or Honors Mentorship

#### Animation and Digital Media Pathway (N)

Introduction to Digital Media Principles and Concepts of Animation Advanced Animation, Game, and app Design\* Work-Based Learning or Honors Mentorship

✓ Graphic Design (A)

Introduction to Graphics and Design Graphic Design and Production Advanced Graphic Design\* Work-Based Learning or Honors Mentorship

#### **BUSINESS, MANAGEMENT, &** ADMINISTRATION CLUSTER

Entrepreneurship Pathway (D, FA, L, S) Introduction to Business and Technology Legal Environment of Business Entrepreneurship\* Work-Based Learning or Honors Mentorship

Human Resources Management Pathway (FA, S)

Introduction to Business and Technology Legal Environment of Business Human Resources Principles\* Work-Based Learning or Honors Mentorship

#### **EDUCATION AND TRAINING CLUSTER**

Teaching as a Profession Pathway (C, D, N, S, W)

Examining the Teaching Profession Contemporary Issues in Education Teaching as a Profession Practicum Work-Based Learning or Honors Mentorship

#### **ENERGY CLUSTER**

Energy Systems Pathway (A)

Foundations of Energy Technologies Energy and Power Technology Appropriate and Alternative Energy Technologies\* Work-Based Learning or Honors Mentorship



A = Alliance Academy for Innovation | C = Forsyth Central HS | D = Denmark HS

FA = Forsyth Academy | FV = Forsyth Virtual | L = Lambert HS | N = North Forsyth HS

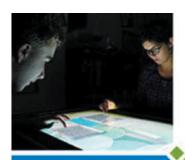
South Forsyth HS | W = West Forsyth HS | C/STEM = STEM Academy @ Forsyth Central HS

S/IB = International Baccalaureate @ South Forsyth HS

To fulfill state pathway requirements, students must complete the sequences of courses shown and take an end-of-pathway assessment when available.

Work-Based Learning (WBL) and Honors Mentorship (HM) opportunities are available in each career pathway. See your school counselor or WBL Coordinator for additional information.









#### 2018-19

#### FINANCE CLUSTER

Advanced Accounting Pathway (L) Introduction to Business and Technology Principles of Accounting I Principles of Accounting II\* Work-Based Learning or Honors Mentorship

✓ Business Accounting Pathway (FV, L, S) Introduction to Business and Technology Financial Literacy Principles of Accounting I\* Work-Based Learning or Honors Mentorship

 ✓ Financial Services Pathway (D, FV, L, S) Introduction to Business and Technology Financial Literacy Banking, Investing and Insurance\* Work-Based Learning or Honors Mentorship

#### **GOVT & PUBLIC ADMIN CLUSTER**

JROTC Pathway - Marines (N)
MCJROTC Leadership Education I/II MCJROTC Leadership Education III/IV MCJROTC Leadership Education V/VI MCJROTC Leadership Education VII/VIII

#### **HEALTH SCIENCE CLUSTER**

**Biotechnology Research & Development Pathway** (C/STEM, L)

Introduction to Healthcare Science Essentials of Biotechnology Applications of Biotechnology\* Biotechnology Internship/Independent Research Work-Based Learning or Honors Mentorship

✓ Diagnostic Services – Phlebotomy Pathway (L) Introduction to Healthcare Science Essentials of Healthcare Diagnostics Phlebotomy Work-Based Learning or Honors Mentorship

#### ✓ Emergency Medical Responder Pathway (A)

Introduction to Healthcare Science Essentials of Healthcare Emergency Medical Responder\* Work-Based Learning or Honors Mentorship

#### ✓ Health Informatics – Health Information Technology (A)

Introduction to Healthcare Science Essentials of Heath Information Technology Applications of Health Information Technology\* Work-Based Learning or Honors Mentorship

Therapeutic Services - Sports Medicine (N)

Introduction to Healthcare Science Essentials of Healthcare Sports Medicine\* Work-Based Learning or Honors Mentorship

#### HOSPITALITY AND TOURISM CLUSTER

Culinary Arts Pathway (D, L, S, W) Introduction to Culinary Arts Culinary Arts I Culinary Arts II\* Work-Based Learning or Honors Mentorship

#### Hospitality, Recreation and Tourism (A)

Marketing Principles Hospitality, Recreation and Tourism Essentials Hospitality, Recreation and Tourism Management\* Work-Based Learning or Honors Mentorship

#### Sports and Entertainment Marketing Pathway (C, D, FV, L, N, S, W)

Marketing Principles Introduction to Sports & Entertainment Marketing Advanced Sports & Entertainment Marketing\* Work-Based Learning or Honors Mentorship



A = Alliance Academy for Innovation | C = Forsyth Central HS | D = Denmark HS

FA = Forsyth Academy | FV = Forsyth Virtual | L = Lambert HS | N = North Forsyth HS

= South Forsyth HS | W = West Forsyth HS | C/STEM = STEM Academy @ Forsyth Central HS

S/IB = International Baccalaureate @ South Forsyth HS

To fulfill state pathway requirements, students must complete the sequences of courses shown and take an end-of-pathway assessment when available.

Work-Based Learning (WBL) and Honors Mentorship (HM) opportunities are available in each career pathway. See your school counselor or WBL Coordinator for additional information.

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#### 2018-19

#### **HUMAN SERVICES CLUSTER**

Personal Care Services - Cosmetology Pathway (C, W) Introduction to Personal Care Services Cosmetology Services II Cosmetology Services III\*

Work-Based Learning or Honors Mentorship

Food and Nutrition Pathway (C, L, N, W)

Food, Nutrition & Wellness Food for Life Food Science\* Work-Based Learning or Honors Mentorship

#### INFORMATION TECHNOLOGY CLUSTER

Computer Science Pathway (C, D, FV, L, N, S, W) Introduction to Digital Technology Computer Science Principles or AP Computer Science Principles AP Computer Science\* Work-Based Learning or Honors Mentorship

√ Cybersecurity Pathway (A)

Introduction to Digital Technology Introduction to Cybersecurity Advanced Cybersecurity\* Work-Based Learning or Honors Mentorship

✓ Internet of Things Pathway (N)

Introduction to Digital Technology Computer Science Principles or AP Computer Science Principles Embedded Computing\* Work-Based Learning or Honors Mentorship

Game Design Pathway (FV)

Introduction to Digital Technology Computer Science Principles or AP Computer Science Principles Game Design: Animation and Simulation Work-Based Learning or Honors Mentorship

Programming Pathway (L, S)

Introduction to Digital Technology Computer Science Principles Programming, Games, Apps, and Society\* Work-Based Learning or Honors Mentorship

Web Development Pathway (D, FV, N, W)

Introduction to Digital Technology Computer Science Principles Web Development\* Work-Based Learning or Honors Mentorship

#### LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY CLUSTER

Firefighting Pathway (A)

Introduction to Law, Public Safety, Corrections and Security Essentials of Fire and Emergency Services Applications of Firefighting\* Work-Based Learning or Honors Mentorship

Law Enforcement /Criminal Investigations Pathway (A)

Introduction to Law, Public Safety, Corrections and Security Criminal Justice Essentials Criminal Investigations\* Work-Based Learning or Honors Mentorship

 Legal Services/Applications of Law Pathway (A)
 Introduction to Law, Public Safety, Corrections and Security Essentials of Legal Services Applications of Law\* Work-Based Learning or Honors Mentorship

#### MANUFACTURING CLUSTER

Manufacturing Pathway (S)

Foundations of Manufacturing and Materials Science Robotics and Automated Systems Production Enterprises\* Work-Based Learning or Honors Mentorship



A = Alliance Academy for Innovation | C = Forsyth Central HS | D = Denmark HS

FA = Forsyth Academy | FV = Forsyth Virtual | L = Lambert HS | N = North Forsyth HS

South Forsyth HS | W = West Forsyth HS | C/STEM = STEM Academy @ Forsyth Central HS

S/IB = International Baccalaureate @ South Forsyth HS

To fulfill state pathway requirements, students must complete the sequences of

Work-Based Learning (WBL) and Honors Mentorship (HM) opportunities are available in each









#### 2018-19

#### ✓ Mechatronics Pathway (A)

Introduction to Mechatronics AC Theory, Electric Motors, and Hydraulic Systems Semiconductors, Mechanical Systems, and Pump and Piping Systems\* Work-Based Learning or Honors Mentorship

#### MARKETING CLUSTER

Fashion, Merchandising and Retail Management Pathway (C, D, L, S, W)

Marketing Principles Fashion, Merchandising, and Retailing Essentials Advanced Fashion, Merchandising, and Retailing\* Work-Based Learning or Honors Mentorship

#### Marketing Communications and Promotions Pathway (C, S)

Marketing Principles Promotion and Professional Sales Marketing Communications Essentials\* Work-Based Learning or Honors Mentorship

#### ✓ Marketing & Management Pathway (C, D, FA, FV, L, N, S, W)

Marketing Principles Marketing and Entrepreneurship Marketing Management\* Work-Based Learning or Honors Mentorship

#### STEM - SCIENCE. TECHNOLOGY. **ENGINEERING & MATHEMATICS CLUSTER**

Engineering and Technology Pathway (C/STEM, D, L, N, S, W) Foundations of Engineering and Technology **Engineering Concepts** 

Engineering Applications\* Work-Based Learning or Honors Mentorship

#### TRANSPORTATION, DISTRIBUTION, & LOGISTICS CLUSTER

Aerospace - Flight Operations (A) Fundamentals of Aerospace Flight Operations I Flight Operations II\*

 ✓ Distribution & Logistics (A) Logistics Fundamentals Logistics Operations Materials Management\* Work-Based Learning or Honors Mentorship

Work-Based Learning or Honors Mentorship

#### Master Automotive Service Technician Pathway (C)

Basic Maintenance and Light Repair (MLR) Maintenance and Light Repair 2 Maintenance and Light Repair 3 Automobile Service Technology 4 Automobile Service Technology 5 Automobile Service Technology 6 Master Automotive Service Technology 7 Master Automotive Service Technology 8 Automobile Service Technology Internship

#### CAREER-RELATED DUAL ENROLLMENT OPTIONS at Lanier Technical College: Accounting.

Air Conditioning Technology, Automotive Collision Repair, Automotive Technology, Building Automation Systems, Certified Nurse Aide (CNA), Cosmetology, Criminal Justice Technology, Design and Media Production Technology, Early Childhood Care and Education, Electrical Systems Technology, Horticulture, Industrial Systems Technology, Interiors, Machine Tool Technology, PC Repair and Network Technician, Welding and Joining Technology MANY OTHER PROGRAM

AREAS AVAILABLE!





A = Alliance Academy for Innovation | C = Forsyth Central HS | D = Denmark HS FA = Forsyth Academy | FV = Forsyth Virtual | L = Lambert HS | N = North Forsyth HS South Forsyth HS | W = West Forsyth HS | C/STEM = STEM Academy @ Forsyth Central HS S/IB = International Baccalaureate @ South Forsyth HS

To fulfill state pathway requirements, students must complete the sequences of courses shown and take an end-of-pathway assessment when available

Work-Based Learning (WBL) and Honors Mentorship (HM) opportunities are available in each career pathway. See your school counselor or WBL Coordinator for additional information

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A career in plant science offers a variety of job opportunities in the fields of education, research, golf and sports turf, landscape design, parks and gardens, public service, production management, and sales and marketing. Employment is expected to increase in response to the increasing demand for both products and services by commercial producers, landscape contractors, turf managers and the general public. New avenues of research in biotechnology to develop plant and food crops that require less fertilizer, fewer pesticides and herbicides, and less water will also increase the demand for careers in plant science and horticulture.

#### **PATHWAY COURSES**

- Basic Agricultural Science and Technologies
- · General Horticulture Science and Plant Science
- · Agribusiness Management and Leadership

#### **RECOMMENDED COURSES**

- Biology
- · Business Management
- · Computer Applications
- Economics
- Environmental Science

#### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- · Associates in Science
- · Business Management
- · Horticulture Technology

#### **COLLEGES/UNIVERSITIES**

- Bachelor of Science, Agricultural Business
- · Bachelor of Science, Agricultural Education
- · Bachelor of Science, Plant Science
- · Master and PhD in all areas

#### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FFA

**AGRICULTURE** 



#### **TOP CAREERS CHOICES**

#### **Interior-Scape Designers**

\$65,000-\$70,000 annual salary B.S. Degree or higher

#### **Landscape Designers**

\$42,000-\$75,000 annual salary No degree required. B.S. recommended

#### Garden Center Owner/Operator

Salaries vary based on scope of business No degree required.

#### Golf Course Manager/Athletic Field Manager

\$64,000-\$84,000 annual salary **Bachelors Degree** 

#### **ADDITIONAL CAREER CHOICES**

Chemical, Equipment, Plants or Seed Sales

Commercial Landscape Designers

Cooperative Extension Agent

Farmer

Fruit and Orchard Production

**Garden Writers** 

Greenhouse

Horticulture Teacher

Irrigation System Design and Installation

Landscape, Nursery, Orchard, Vegetable Farm

Marketing for Gardens or Green Industry

Organic Vegetable Production

Park Design and Maintenance

**Production Marketing** 

**Public and Private Garden Curators** 

**Public Gardens** 

**Public Relations** 

Sod Production and Sales

Research Scientist or Plant Breeding

Wetland Reclamation

Zoo or City Government Horticulturist



Source: GADOE Plans of Study

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



This pathway is designed to introduce students to the scientific principles that underlie the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products. This course introduces scientific principles applied to the animal industry; covers reproduction, production technology, processing, and distribution of agricultural animal products. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

#### **PATHWAY COURSES**

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

#### RECOMMENDED COURSES

- Biology
- Business Management
- Computer Applications
- Economics
- Environmental Science

#### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- Associates in Science
- Business Management

#### COLLEGES/UNIVERSITIES

- Bachelor of Science, Agricultural Business
- Bachelor of Science, Agricultural Education
- Bachelor of Science, Plant Science
- Master and PhD in all areas

#### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FFA

**AGRICULTURE** 



#### **TOP CAREERS CHOICES**

#### **Agricultural Inspectors**

\$40,900 annual salary Bachelor's Degree 20 annual average openings in Georgia

#### **Animal Scientists**

\$73,400 annual salary Bachelor's Degree 1 annual average openings in Georgia

#### First-Line Supervisors of Animal Husbandry and Animal Care Workers

\$45,200 annual salary High School Diploma 40 annual average openings in Georgia

#### **ADDITIONAL CAREER CHOICES**

Agricultural Inspectors

Agricultural Managers

Agricultural Science Postsecondary Teachers

Agricultural Technicians

**Butchers and Meat Cutters** 

**Buyers and Purchasing Agents** 

Chemical Farm and Ranch Managers

Food Cooking Machine Operators

**Graders and Sorters** 

Slaughters and Meat Packers

Technicians





Companion animals are a large part of the animal care industry. Veterinarians diagnose, treat, and research medical conditions and diseases of pets, livestock, and other animals. Veterinary technologists and technicians perform medical tests under the supervision of a licensed veterinarian to help diagnose the illnesses and injuries of animals. Veterinary assistants and laboratory animal caretakers look after animals in laboratories, animal hospitals, and clinics. They care for the well-being of animals by performing routine tasks under the supervision of veterinarians, scientists, and veterinary technologists and technicians. Animal care and service workers feed, water, groom, bathe, and exercise pets and other nonfarm animals. Veterinary medicine has advanced considerably, and many of the veterinary services offered today are comparable to health care for humans, including cancer treatments and kidney transplants.

#### **PATHWAY COURSES**

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

#### **RECOMMENDED COURSES**

- Biology
- Business Management
- Computer Applications
- Economics
- Environmental Science

#### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

• Associates in Science

#### **COLLEGES/UNIVERSITIES**

- Bachelor of Science, Agricultural Business
- Bachelor of Science, Agricultural Education
- · Bachelor of Science, Animal Science
- Master and PHD in all areas

#### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- FFA

AGRICULTURE

#### COMPANION ANIMAL SYSTEMS PATHWAY

#### **TOP CAREERS CHOICES**

#### **Nonfarm Animal Caretakers**

High School Diploma \$19,100 annual salary 160 annual average openings in Georgia

#### Veterinarians

Professional Degree \$76,600 annual salary 10 annual average openings in Georgia

#### **Veterinary Assistants**

High School Diploma \$21,700 annual salary

#### **ADDITIONAL CAREER CHOICES**

Agricultural Animals

Agricultural Inspectors

Agriculture Teachers

**Animal Breeders** 

Animal Care and Service Workers

**Animal Scientists** 

**Biological Technicians** 

Nonfarm Animal Caretakers

Ranch Managers

Veterinarians

Veterinary Assistants

Veterinary Technicians





Leaders in animal production conduct research to develop better ways to produce and process meat, poultry, eggs, and milk. Much of the research focuses on the health and breeding of livestock. Because most jobs in this field are research-based, a bachelor's degree in animal or agriculture science is required. A doctoral degree (Ph.D.) is necessary for leading research projects or teaching on the university level. The farming and food production industry spends much money on breeding, raising, and feeding animals. The industry will continue to be interested in more efficient, less costly methods of raising animals.

#### **PATHWAY COURSES**

- Basic Agriculture Science
- General Horticulture and Plant Science
- Animal Science and Biotechnology

#### **RECOMMENDED COURSES**

- Biology
- · Business Management
- Computer Applications
- Economics
- Environmental Science

#### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

#### **TECHNICAL COLLEGES**

- · Associates in Science
- Business Management
- Garden Center Technician
- Horticulture Technology
- Landscape Design Technician
- Landscape Specialist
- Sustainable Urban Agriculture

#### COLLEGES/UNIVERSITIES

- Bachelor of Science, Agricultural Business
- Bachelor of Science, Agricultural Education
- Bachelor of Science, Plant Science
- Master and PhD in all areas

#### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FFA

AGRICULTURE

# HORTICULTURE AND ANIMAL SYSTEMS PATHWAY

#### **TOP CAREERS CHOICES**

#### **Nursery and Greenhouse Managers**

\$69,300 annual salary Bachelor's Degree 450 annual average openings in Georgia

#### Soil and Plant Scientists

\$68,900 annual salary Bachelor's Degree 10 annual average openings in Georgia

#### **Animal Scientists**

\$61,700 annual salary Doctoral Degree 1 annual average openings in Georgia

#### **ADDITIONAL CAREER CHOICES**

Agricultural Sciences Teachers

**Animal Breeders** 

**Animal Scientists** 

**Animal Trainers** 

Career/Technical Education Teachers

Nonfarm Animal Caretakers

Nursery and Greenhouse Managers

**Nursery Workers** 

Soil and Plant Scientists

First-Line Supervisors of Animal

Husbandry and Animal Care Workers





The agriculture education courses in veterinary science covers the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. College preparatory students benefit from the course as an elective if they plan to enter col-lege and pursue a degree in the veterinary profession. This course allows students entering the workforce after graduating high school to develop entry-level skills to become employed and to continue their eduation on the job.

#### **PATHWAY COURSES**

- Basic Agricultural Science
- Animal Science and Biotechnology
- Veterinary Science

#### **RECOMMENDED COURSES**

- Biology
- Business Management
- Computer Applications
- Economics
- Environmental Science

#### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

TECHNICAL COLLEGES

Associates in Science

COLLEGES/UNIVERSITIES

- Bachelor of Science, Agricultural Education
- Bachelor of Science, Agricultural Science
- Bachelor of Science, Animal Science
- Master and PhD in all areas

#### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FFA

**AGRICULTURE** 

#### VETERINARY SCIENCE PATHWAY

#### **TOP CAREERS CHOICES**

#### **Animal Physical Therapist**

Associates Degree or higher \$28,000-\$30,000 annual salary

#### Veterinarian

Doctoral or Professional Degree \$82,040 per year starting salary

#### **Veterinary Tech**

Doctoral or Professional Degree \$82,040 per year starting salary

#### **ADDITIONAL CAREER CHOICES**

Animal Welfare Specialist

**Animal Care Specialist** 

**Animal Sales** 

**Artificial Insemination Technician** 

**Breed Analyst** 

**Breed Association Sales/Promotion** 

Cell Culture Specialist

Companion Animal Breeder

Companion Animal Nutrition Specialist

Companion Animal Store Manager

Companion Animal Therapy Specialist

Communication and Media Specialist

Dairy Unit Herdsman/Manager

Embryo Transfer Technician

**Equipment Sales Representative** 

**Equitation Instructor** 

**Extension Educator** 





Audio and Video Technology and Film is a pathway 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**

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

#### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

#### **TECHNICAL COLLEGES**

- Technical Studies
- Telecommunications Arts
- Georgia Film Academy

#### **COLLEGES/UNIVERSITIES**

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

#### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- SkillsUSA

FORSYTH COUNTY SCHOOL DISTRICT 2018-2019 Career Planner

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

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

#### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**BACHELOR'S DEGREE** 

- · Animation School Varying Certificates available
- Intern experience

#### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- SkillsUSA

FORSYTH COUNTY SCHOOL DISTRICT 2018-2019 Career Planner



#### **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 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**

- Computer Applications
- Fine Arts
- Marketing
- · World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

TECHNICAL COLLEGES

- Graphic Design
- Prepress and Production

### **COLLEGES/UNIVERSITIES**

- · Graphic Design
- Industrial Design
- Printmaking
- Product Design

See www.GAfutures.org for additional information.

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- SkillsUSA



## GRAPHIC DESIGN PATHWAY

### **TOP CAREERS CHOICES**

### **Art Director**

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

### **Commercial and Industrial Designers**

Bachelor's Degree \$54,900 annual salary 30 annual average openings in Georgia

### **Creative Designer**

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

### **Graphic Designer**

Bachelor's Degree \$49,900 annual salary 390 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Advertising and Promotions Managers

Art Directors

Fashion Design

Film and Video Editors

Illustration

Interior Designers

Multimedia Artist and Animators

Photography

3D Animation





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
- · Marketing Principles
- · Work-Based Learning
- World Language
- Yearbook/Journalism

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

- Business Management
- · Business Office Technology
- Entrepreneurship
- · Hospitality Industry
- Human Resources Associate
- · Management and Supervisory Development
- Office Administration

### **COLLEGES/UNIVERSITIES**

- Business
- Business Administration

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- DECA
- FBLA
- SkillsUSA

**BUSINESS MANAGEMENT** AND ADMINISTRATION



### **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

Administrator

Bank Teller

**Business Educator** 

Chief Executive Officer

Accountant and Auditor

Claims Adjuster

Claims Examiner

Computer Support Specialist

Computer Systems Analyst

Cost Estimator

Database Administrator

Entrepreneur

Financial Analyst

Financial Manager

Investigator

**Network and Computer System** 

Paralegal and Legal Assistant

Personal Financial Advisor

Sales Manager

Tax Prepare



Source: GADOE Plans of Study





Students will analyze the primary functions of human resources management which include recruitment, selection, training, development, compensation, and evaluation. The pathway is designed to equip students with operational knowledge of hiring, managing, and terminating employees. Throughout the third course, students will be introduced to the Human Resource Management role by following the life cycle of an employee from organizational entry to exit. Upon mastery of the standards in this pathway, students should be prepared to pass an End of Pathway assessment in this career area.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- Economics
- Entrepreneurship
- Human Resource Principles
- Intro to Business and Technology and Legal Environment of Business as Prerequisite

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

Business Management degree at most colleges and universities

- · Associate degree
- Bachelor's degree
- Certificate program
- Doctoral degree
- · Master's degree
- Professional Certifications
  - GPHR (Global Professional in HR)
  - PRH (Professional in HR)
  - SPHR (Senior Professional in HR)
- Professional Membership in Society for Human Resource Management encouraged

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- FBLA

BUSINESS MANAGEMENT AND ADMINISTRATION



## HUMAN RESOURCES MANAGEMENT PATHWAY

### **TOP CAREERS CHOICES**

### **Human Resources Managers**

2012 Median Pay \$99,720 per year Entry-Level Education Bachelor's degree Work Experience in a Related Occupation 5+ years Job Outlook 2012-22, 13% growth

### **ADDITIONAL CAREER CHOICES**

Compensation and Benefits Manager

**Employee Training Specialist** 

**Human Resources Assistant** 

Human Resources Manager

**Human Resources Specialist** 

Job Analysis Specialist

Training and Development Manager





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

### **TECHNICAL COLLEGES**

- CDA Prep
- Child Care Assistant and/or Child Care Manager
- Child Development Associate I and/or II
- Child Development Specialist
- Early Childhood Care and Education Basics
- Early Childhood Care and Education Program Administration
- Early Childhood Education or Exceptionalities
- · Education of the Gifted
- Infant-Toddler Care Specialist

### **COLLEGES/UNIVERSITIES**

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

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- FCCLA
- FEA

### **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

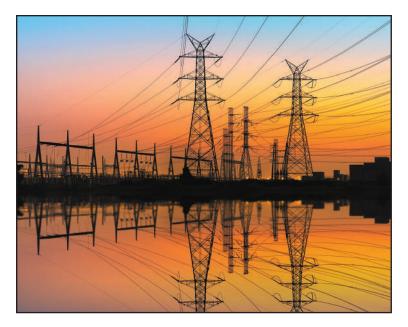
Social Services Aide

Special Education Teacher

Teacher



### Source: GADOE Plans of Study



Energy is a diverse field with many job opportunities. There are many people who help generate energy, transport it and connect energy to the things we use every day. There are also individuals creating new methods of energy generation. Working in energy can mean working for utilities, for gas and oil companies, for government and research groups, for energy education or environmental regulation agencies, for nonprofit energy awareness and conservation organizations or for many other energy related agencies.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- Advanced Math
- Chemistry
- · Introduction to Digital Technology
- Introduction to Engineering and Technology
- Introduction to Mechatronics
- Physics

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

- 4-Year Universities/Colleges
- 2-Year Colleges
- Military
- On-the-Job Training
- Special Purpose Schools
- State Registered Apprenticeships
- Technical Colleges

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- SkillsUSA

**ENERGY** 



### **TOP CAREERS CHOICES**

### **Electrical Engineer**

Bachelor's Degree \$90,445 annual salary

### **Electrical Power-Life Installers and Repairs**

Some post-secondary, no degree required \$48,355 annual salary

### **Industrial Production Manager**

Bachelor's Degree \$96,979 annual salary

### **ADDITIONAL CAREER CHOICES**

Electricians

**Electronics Technicians** 

**Engineering Technicians** 

Equipment, Cable, Line Repairers/Installers

Geologists

Hazardous Waste Technicians

Meteorologists

Mining Engineers

Petroleum Engineers

Pipefitters/ Pipe Layers

**Power Plant Operators** 

Telecommunication Technicians

Value/Regulator Repairers





The Financial Management Services pathway courses are designed to provide students with knowledge that can be applied in secondary education, the work place, and in their personal lives. During times of financial crisis it is imperative that students learn the importance of sound financial decision-making.

### **PATHWAY COURSES**

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

### RECOMMENDED COURSES

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

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### TECHNICAL COLLEGES

- Accounting
- Banking and Finance
- Business Administration Technology
- · Business Logistics
- Business Studies
- Business Technology
- Office Accounting Specialist

### **COLLEGES/UNIVERSITIES**

- Accounting
- Actuarial Sciences
- Business Administration
- Economics
- Finance
- Insurance

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- DECA
- FBLA
- SkillsUSA

**FINANCE** 

## **ADVANCED ACCOUNTING PATHWAY**

### **TOP CAREERS CHOICES**

### **Actuary**

Bachelor Degree needed \$84,822 annual salary 30 annual average openings in Georgia

### **Brokerage Clerk**

Moderate-Term On-the-Job Training needed \$30,597 annual salary 30 annual average openings in Georgia

### Financial Analyst

Bachelor Degree needed \$80,787 annual salary 210 annual average openings in Georgia

### **Real Estate Sales Agent**

Post-Secondary Vocational Award needed \$38,334 annual salary 500 annual average openings in Georgia

### Securities/Commodities Sales

Bachelor Degree needed \$81,536 annual salary 100 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Bank Teller and Manager

Cash Manager

Chief Financial Officer

Controller

Corporate Finance Professional

Credit Analyst

Financial Counselor

Financial Manager

Insurance Agent and Broker

Insurance Manager

Investment Banker

Loan Officer

Personal Financial Advisor

Personal Wealth Manager

Real Estate Agents and Broker

Stock Broker



### Source: GADOE Plans of Study



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
- Marketing Principles
- · Work-Based Learning
- World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

TECHNICAL COLLEGES

- Accounting
- · Business Technology
- Medical Administrative Assistant
- Office Accounting Specialist

### **COLLEGES/UNIVERSITIES**

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

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FBLA

**FINANCE** 



### **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



Source: GADOE Plans of Study



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-ofwork 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**

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

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

TECHNICAL COLLEGES, COLLEGES/UNIVERSITIES

- Accounting
- · Business Administration-Financial Analysis
- · Business Technology
- Consumer and Family Financial Services
- Disaster Relief Insurance Claim Adjuster
- Financial Planning
- · Office Accounting Specialist

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- 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 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**

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

### **RECOMMENDED COURSES**

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

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

- 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**

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

GOVERNMENT AND PUBLIC ADMINISTRATION

## JROTC MARINES 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 GACollege 411 under the Career Planning Tab.

### **ADDITIONAL CAREER CHOICES**

Administration

Air Traffic Controller

**Aviation Ordinance** 

**Broadcast Specialist** 

Computer

Construction Equipment Repairer

Criminal Investigation

**Equipment Repair** 

Finance

Flight Crew

**Human Resource** 

Information Technology

Intelligence

Lawyer

Military Police

Missile Fire Control Operator

Multi Media Illustrator

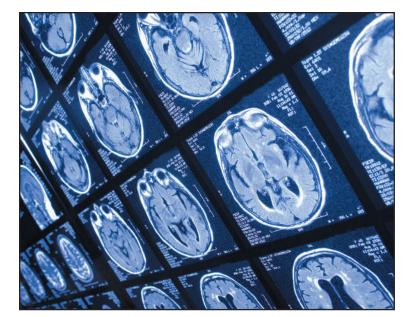
Naval Aviation (Pilot)

Photographer

Supply Logistic

Transportation Management





The Biomedical Research and Development pathway provides an understanding of human medicine through topics such as physiology, genetics, microbiology and public health. Courses will provide an introduction to teamwork and communication practices, organizational, critical-thinking and problem-solving skills. Areas of instruction include an understanding of the processes, structures and interactions of the human body, as well as the prevention, diagnosis and treatment of disease.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- · AP Chemistry or AP Biology
- AP Statistics
- Computer Science Courses
- · Honors or Pre-AP Biology

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- · Associates of Science in Nursing
- Biochemistry
- Biomedical Sciences
- Biotechnology
- Dental Hygiene
- Epidemiology
- Health and Administration
- · Healthcare fields (Pre-nursing, pre-vet, pre-med)
- Physical Therapy Assistant
- Public Health
- Radiologic Technology
- Surgical Technology

COLLEGES/UNIVERSITIES

See www.GAcollege411.org for additional information.

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- HOSA



## **BIOTECHNOLOGY RESEARCH AND DEVELOPMENT PATHWAY**

### **CAREER CHOICES**

**Biological Consultant** 

Biological or Medical Illustrator

**Biological Photographer** 

Conservation Warden

Crime Lab Technician

**Dental Hygienist** 

Dietician Nurse

**Emergency Medical Technician** 

Farm Manager

Field Biologist or Ecologist

Food and Drug Inspector

Forensic Service Technician

Forest Ranger

Game Manager

**Human Resources Staff** 

Industrial Hygienist or Process Manager

Laboratory Technician

Licensed Practical Nurse

Meat and Poultry Food Inspector

Medical Assistant or Records Administrator

Medical Technologist

Medical Writer

Mortician

Museum Educational Staff Member

Museum Exhibit Designer

National or State Park Ranger

Nurse Anesthetist

Nutritionist

Pediatric Nurse

Pest Control Specialist

Pet Shop Owner

**Phlebotomist** 

Primary or Secondary Teacher

Prosthesis-Maker

**Public Relations** 

Radiology Technician

Sales Representative

Science Journalism or Librarian

University Research Assistant

Veterinary Technician

Waste Disposal Engineer

Water Quality Controller

Wildlife Management Specialist

Zoo Assistant

Zoologist



Source: GADOE Plans of Study





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.

### **PATHWAY COURSES**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Diagnostics Phlebotomy

### **RECOMMENDED COURSES**

- · Any Business and Computer Science Course
- Any Science Elective
- Any World Language
- · Work-Based Learning

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

Training programs are often available at community colleges/ technical schools coupled with clinical experience. Students must pass a certification exam

**TECHNICAL COLLEGES** 

• Phlebotomy Technician

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- HOSA

### **HEALTH SCIENCE**

# DIAGNOSTIC SERVICES PHLEBOTOMY PATHWAY

### **TOP CAREERS CHOICES**

### **Phlebotomists**

Bachelor Degree needed \$46,891 annual salary 230 annual average openings in Georgia

### **Cardiovascular Technologist and Technicians**

Associate's Degree \$51,600 annual salary

### **Medical Lab Assistants**

Associate's Degree \$36,500 annual salary

### Skills

Good eye/ hand coordination, pleasant bedside manner, attention to detail Growth rate projected to be 27%, much faster than the average.

### **ADDITIONAL CAREER CHOICES**

Information Nurse Specialists

Medical Lab Assistants

**Nuclear Techs** 

Patient Service Techs (PST)

Physicians

**Phlebotomists** 

Phlebotomy Supervisors

Radiologic Technologists

Registered Nurses

Respiratory Technicians

Other Related Health Science Occupations





Health Information Technology is the application of information processing involving both computer hardware and software that deals with the storage, retrieval, sharing, and use of healthcare information, data, and knowledge for communication and decision making to improve patient care. Those working in Health IT are skilled professionals who understand both the healthcare and information technology environments. Students with strong technology skills and a strong understanding of medical terminology will find favorable opportunities in this pathway.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- Any Computer Science Course
- Any Healthcare Science Course
- Any World Language
- Human Anatomy/Physiology

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- Health Information Management Technology
- Health Information Management Coding
- Health Information Technology Specialist
- Medical Billing Clerk

### **COLLEGES/UNIVERSITIES**

- Computer Science
- Health Informatics
- Health Information Management
- Management Information Systems

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- HOSA
- FBLA

HEALTH SCIENCE



### **TOP CAREERS CHOICES**

### **Informatics Nurse Specialists**

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

### **Software Developers**

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

### **Computer Support Specialists**

Some College/No Degree Required \$57,900 annual salary 830 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

**Computer Programmers** 

Computer User Support Specialists

Medical Records & Health Information Techs

Medical Secretaries

Medical Transcriptionists





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 part-time, 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

**TECHNICAL COLLEGES** 

- Fire Science
- Firefighter EMT

### **COLLEGES/UNIVERSITIES**

• See www.GAfutures.org for additional information.

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- HOSA

### **HEALTH SCIENCE**



### **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





Sports Medicine is a branch of Health Science devoted to muscu-loskeletal disorders that alter the functional ability of the patient. Careers in this industry focus on improvement of ability to perform life tasks through the combined use of physical training (exercise, movement, and modification of activities), medications, adaptive equipment, orthotics (braces), and prosthesis devices. Careers in rehabilitation focus on helping people return to independence and self-reliance.

### **PATHWAY COURSES**

- Introduction to Healthcare Science
- · Essentials of Healthcare
- · Sports Medicine

### **RECOMMENDED COURSES**

- · Human Anatomy/Physiology
- Internships
- Physics
- Psychology
- · Work-based Learning
- World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

- · Associates of Science in Nursing
- 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

- CTI
- HOSA

### **HEALTH SCIENCE**

# THERAPEUTIC SERVICES SPORTS MEDICINE PATHWAY

### **TOP CAREERS CHOICES**

### **Athletic Trainer**

Bachelor Degree needed \$35,917 annual salary 20 annual average openings in Georgia

### **Occupational Therapist Aide**

Short-Term On-the-Job Training needed \$20,259 annual salary 10 annual average openings in Georgia

### **Orthotist and Prosthetist**

Bachelor Degree needed \$35,464 annual salary 10 annual average openings in Georgia

### **Physical Therapist**

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

### **Physical Therapist Assistant**

Associate Degree needed \$40,830 annual salary 90 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Chiropractor

**Doctor of Osteopathic Medicine** 

**Doctor of Podiatric Medicine** 

Massage Therapist

Occupational Therapist

Orthopedic Doctor

Physical Therapy Assistant

Physician's Assistant

Radiologist

Radiologist Technician





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

### **TECHNICAL COLLEGES**

- Catering Specialist
- Culinary Arts (Standard Pathway or Baking & Pastry Pathway)
- Culinary Nutrition Assistant
- · Food and Beverage Director
- Food and Beverage Management
- Food Production Worker I
- Hospitality Management
- Hotel/Restaurant/Tourism Management
- Prep Cook
- Restaurant Manager

### COLLEGES/UNIVERSITIES

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

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FCCLA

### **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





Georgia represents the 8th largest tourism economy in the country and the 2nd largest industry in Geor-gia. The Hospitality, Recreation and Tourism Industry consists of the following Lodging, Hotels and Resorts; Conventions, Meetings, Trade Shows and Events; Restaurants and Food Service; Recreation, Attractions, Sporting Events and Parks and Travel, including Air, Rail, Auto and Coach. Since the industry is primarily a s ervice-oriented industry, workers will need good communication skills, and they will have to understand the importance of meeting the needs of individuals.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- · Advanced Marketing
- · Any business or computer course
- Entrepreneurship
- · Work-Based Learning
- World Languages

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

- Adventure Tourism
- Communications
- Culinary
- Hospitality Management
- Hospitality Operations Management
- International Tourism
- · Marketing Management
- · Meetings & Event Planning
- Ski Guide
- Sports Marketing
- See www.GAfutures.org for additional information.

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- DECA
- FBLA
- FCCLA

### **HOSPITALITY AND TOURISM**



### **TOP CAREERS CHOICES**

### **Hotel and Lodging Managers**

Bachelor Degree needed \$51,840 per year

### Meeting, Convention, Events Planners

High School and on the job training \$47,350 per year 10% increase expected

### **Public Relations**

Bachelors degree \$58,020 per year

### **Restaurant Manager**

High School and on the job training \$50,820 per year

### **Travel Agent**

High School and on the job training \$36,460 per year

### **ADDITIONAL CAREER CHOICES**

**Brand Manager** 

Catering Manager

Communications Specialist

Country Club Marketing and Management

Cruise Director

**Customer Account Representative** 

**Economic Development Specialist** 

**Entertainment Marketer** 

Entrepreneur

Golf Course Marketing and Management

Hotel Management

International Tourism & Hotel Management

Parks and Recreation Management

Purchaser

Real Estate Agent

Recreation and Amusements Marketer

Restaurant Management

Sales Representative

Social Media Marketer

Sports and Entertainment Marketer

**Tourism Director** 

Travel Agent

Travel Blogger

Travel Planner



Source: GADOE Plans of Study





Entertainment is related to film and TV, music, gaming, digital media and sports marketing are huge in Georgia. In addition to basic knowledge and skills in management and entrepreneurship, students in this Pathway will apply their knowledge and skills to this industry in order to master the industry's terminology, market arenas and venues, obtain sponsorships, maintain solid media relations, coordinate and manage campaigns and events, etc. This pathway culminates with an opportunity for students to take the MBA Research "A\*S\*K Marketing Concepts" end of pathway assessment or the NOCTI "Marketing Education Manager Trainee" end of pathway assessment.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- Advanced Marketing
- · Any Business and Computer Science Course
- Entrepreneurship
- · Work-Based Learning

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

- Business Administration
- Business Management
- Executive Coaching
- · Expert Sales Management
- Project Management
- · Visual Merchandising

### **COLLEGES/UNIVERSITIES**

- Accounting
- Advertising
- Bridal Consultant
- Business Economics
- Communication
- Graphic Arts
- Hospitality Administration
- Management
- Marketing
- Professional Sales
- Sport Management
- Travel/Tourism

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- DECA
- FBLA

**HOSPITALITY AND TOURISM** 

## **SPORTS AND ENTERTAINMENT MARKETING PATHWAY**

## **TOP CAREERS CHOICES**

### **Marketing Manager**

Bachelor Degree 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

### **Public Relations Specialist**

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

### **Recreation Worker**

Short-Term On-the-Job-Training needed \$21,570 annual salary 260 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Advertising Account Executive

Agent

**Brand Manager** 

Cashier

Communications Specialist

**Customer Service Representative** 

**Demonstrator and Product Promoter** 

Desktop Publisher

**Entertainment Marketer** 

Entrepreneur

**Fashion Retailer** 

Market Research Analyst

Marketing Specialist

Media Buyer

**Product Development Management** 

**Public Relations Specialist** 

Purchaser

Retail Buyer

Retail Salesperson

Sales

Sales Representative

Sign Maker

Sports Marketer

Website Designer

Web Developer Webmaster

### Source: GADOE Plans of Study



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
- Human Growth and Development for Early Childhood
- Work-Based Learning
- · World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### TECHNICAL COLLEGES

- · Catering Specialist
- Culinary Arts
- Culinary Nutrition Assistant
- Food and Beverage Director
- Food and Beverage Management
- · Food Production Assistant, Worker, or Apprentice
- Food Production Worker I
- Hotel/Restaurant/Tourism Management
- Prep Cook
- Restaurant Manager

### COLLEGES/UNIVERSITIES

- Dietetics/Dietician
- FACS Education
- · Food, Nutrition and Wellness Studies
- · Food Science and Technology
- See www.GAcollege411.org for additional information.

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- FCCLA

**HUMAN SERVICES** 

# FOOD AND NUTRITION 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

Food Service Manager

Geriatric Food Designer

Health Educator

Health Inspector

Microbiologist

**Product Evaluation Scientist** 

Research and Development Specialist

Sensory Scientist

Teacher Educator

**Technical Writer** 

Toxicologist



Source: GADOE Plans of Study



The Personal Care Services Cosmetology pathway is formulated for students who desire to become licensed cosmetologists. All participating students are required by the Georgia State Board of Cosmetology to obtain a total of 1500 unit hours to be eligible for both the written and practical state test. Students benefit from the program because it allows the student the opportunity to obtain at least half of the required state board hours.

### **PATHWAY COURSES**

- Introduction to Personal Care Services
- · Cosmetology Services II
- · Cosmetology Services III

### **RECOMMENDED COURSES**

- Advanced Cosmetology Services
- Chemistry
- Cosmetology Services Core IV
- Internship I, II, III, IV, V
- Licensure and Employment Opportunities
- · Science and Art of Makeup
- · Science of Advanced Skincare
- World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- · Barber License
- Cosmetology
- · Cosmetology Instructor License
- Cosmetology License
- Esthetician License
- Hair Designer
- Master Cosmetology License
- Shampoo Technician

**COLLEGES/UNIVERSITIES** 

Cosmetology

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- SkillsUSA

### **HUMAN SERVICES**



## PERSONAL CARE SERVICES **COSMETOLOGY PATHWAY**

### **TOP CAREERS CHOICES**

Salary ranges from \$15,530 to \$42,460 per year. In order to obtain a license in cosmetology, nail technology, or skin care in the state of Georgia, students must complete the requirements listed below. Please contact the Georgia State Board of Cosmetology for more information. Requirements:

COSMETOLOGIST: 1500 Hours, Apprenticeship 3000 Hours

HAIR DESIGN: 1325 Hours, Apprenticeship 2650

ESTHETICIAN: 1000 Hours, Apprenticeship 2000 Hours

NAIL TECHNICIAN: 525 Hours, Apprenticeship 1050 Hours

### **ADDITIONAL CAREER CHOICES**

Barber Stylist

Chemical Texture Specialist

Color Specialist Chemist

Cosmetologist

**Cutting Specialist** 

**Editorial Specialist** 

Esthetician

Hair Color Specialist

Hairstylist

Make-up Artist

Master Cosmetologist

Nail Technicians

Permanent Wave Technician

Platform Artist

Receptionist

Salon Owner

Shampoo Tech

Wig Stylist



Source: GADOE Plans of Study



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

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

- CISCO CCNP Specialist
- CISCO Network Specialist
- Computer Engineering Technology
- Computer System Design Specialist
- Computer Support Specialist
- Drafting Technology
- Electrical and Computer Engineering Technology
- Electromechanical Engineering Technology
- Industrial Engineering Technology
- Internet Specialist/Website Design
- LINUX/UNIX System Administrator
- Network Design Technology Specialist
- Network Specialist
- PC Repair & Network Techician
- Telecommunications Engineering Technology
- Wireless Engineering Technology
- Wireless Networking Technician

### COLLEGES/UNIVERSITIES

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

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- FBLA

**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 & 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





The increased use of computers has created a high demand for specialists to provide advice to users, as well as for day-to-day administration, maintenance, and support of computer systems and networks. This pathway is designed to introduce students to the field of cybersecurity while examining best practices related to the management of security, ethics, trust, internal/external threats, cryptography, and wireless technologies. Computer-related jobs are generally high paying, and those working in the profession require a foundational knowledge of problem solving and logical thinking.

### **PATHWAY COURSES**

- Introduction to Digital Technology
- · Introduction to Cybersecurity
- Advanced Cybersecurity

### **RECOMMENDED COURSES**

- Any Advanced Math Course
- · Any Business and Computer Science Course
- Any Engineering Course
- Any World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- Cybersecurity
- Cyber Crime Specialist
- Computer Support Specialist

### **COLLEGES/UNIVERSITIES**

- Computer Support Specialist
- Computer Science
- Management Information Systems

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FBLA
- TSA

**INFORMATION TECHNOLOGY** 

## CYBERSECURITY PATHWAY

### **TOP CAREERS CHOICES**

### **Computer & Information Systems Managers**

Bachelor Degree needed \$134,679 annual salary 333 annual average openings in Georgia

### **Computer Support Specialists**

Some College/No Degree Required \$44,700 annual salary 830 annual average openings in Georgia

### **Network & Computer System Administrators**

Bachelor Degree needed \$83,734 annual salary 246 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Administrative Support Workers Network

Computer & Information Systems Managers

Computer System Administrators

Computer Network Support Specialist

**Computer Operators** 

Computer User Support Specialist

First-Line Supervisors of Office





Students completing this pathway will gain an understanding of the fundamental principles used at every stage of the game creation process. After establishing foundational knowledge, game genres and modes of play are explored in terms of the psychology of incentives, motivation to play, and social networking. Virtual characters and non-player characters are reviewed from concept drawing to 2D and 3D art, rigging, and animation. Level design, storytelling, and animation are added to develop a virtual world around the characters. Students taking this pathway are strongly encouraged to add an internship to their curriculum which will give them real world experience and an understanding of how the computer game industry works. Employment of game designers is expected to increase 8 percent from 2016 - 2026, about as fast as the average for all occupations, resulting in 6,200 jobs available nationwide.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- · Any Art Course
- Any Computer Science Course
- · Any Mathematics Course
- · Any Physics Course
- Student Internship

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- Game Development
- Computer Information Systems
- Computer Programming
- Design and Media Production Technology

### COLLEGES/UNIVERSITIES

- · Computer Engineering
- Computer Science
- Management Information Systems

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FBLA
- TSA

### INFORMATION TECHNOLOGY



## **GAMING DESIGN PATHWAY**

### **TOP CAREERS CHOICES**

### **Computer Game Designer**

Bachelor Degree Required \$63,970 annual salary

### **Multimedia Artists and Animators**

Bachelor Degree needed \$70,530 annual salary

### **Computer and Information Systems Managers**

Bachelor Degree Required \$134,679 annual salary 333 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Audio Engineer

Computer Programmer

Software Developer

**Technology Support Specialist** 

Video Game Tester



**INFORMATION TECHNOLOGY** 



This pathway examines the impact of computing on the world around us. Engage your creativity, demonstrate and build your problem solving all while connecting the relevance of computer science to society! Examine how personal devices, smart cars and the Internet interact. Courses are based on a discovery and hands on learning. Don't just read about it create and do it!

### **PATHWAY COURSES**

- Introduction to Digital Technology
- · Computer Science or Principles or AP Computer Science Principles (counts as 4th Science or 4th Math)
- Embedded Computing (counts as 4th Science or 4th Math)

### **RECOMMENDED COURSES**

- Any Computer Science course
- Art
- · Math / Science classes
- Robotics
- Sociology / Psychology
- · STEAM or engineering

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- · Computer Science
- Internet Specialist
- Programming
- Computer Simulation

### **COLLEGES/UNIVERSITIES**

- Computer Science
- Computational Media
- Computer Information Systems

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- DECA
- FBLA
- SkillsUSA



## **INTERNET OF THINGS PATHWAY**

### **TOP CAREERS CHOICES**

### Web Developer

Associate Degree needed \$82,000 Median Salary 27% growth from 2014 - 2017

### Information Architect

Bachelor's Degree needed \$100,240 Median Salary 9% growth from 2014 - 2017

### **Software Developer**

Bachelor's degree needed \$100,690 Median Salary 17% growth from 2014 - 2024

### **ADDITIONAL CAREER CHOICES**

App Developer

**Business Intelligence Analysts** 

Computer Programmer

Computer Systems Analysts

Cyber Security Consultant

Data Miner

Database Administrator

Game Developer

Information System

**IT Consultant** 

Multimedia Programmer

Researcher

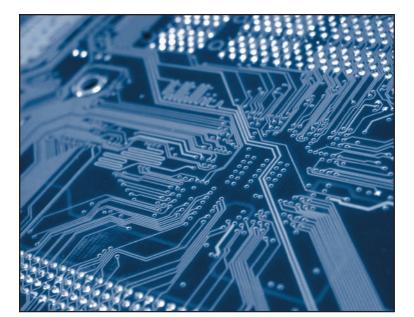
Software Engineer

Software QA Tester

System Analyst

**Technical Writer** 





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
- Introduction to Engineering Drawing and Design
- Introduction to Graphics and Design
- · Work-Based Learning
- World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

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

### COLLEGES/UNIVERSITIES

See www.GAcollege411.org for additional information.

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- 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



### Source: GADOE Plans of Study



The Web Development 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
- Computer Science Principles
- Web Development

### **RECOMMENDED COURSES**

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

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

- · Computer Animation and Multimedia
- Computer Simulation
- Design and Media Production Technology
- Digital Media
- Internet Specialist Website Design
- · Printing and Graphics Technology
- Website Designer

### COLLEGES/UNIVERSITIES

- Animation
- · Computational Media
- Computer Science
- · Graphic Designer

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- DECA
- FBLA
- SkillsUSA

### FORSYTH COUNTY SCHOOL DISTRICT **2018-2019** Career Planner

**INFORMATION TECHNOLOGY** 

## **WEB DEVELOPMENT 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



### Source: GADOE Plans of Study



Workers in the Fire & Emergency area work in potentially risky situations protecting the public against fires and other dangers. Every year, fires and other emergencies take thousands of lives and destroy property worth billions of dollars. Firefighters and emergency service workers help protect the public against these dangers by rapidly responding to a variety of emergencies. They are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries or perform other vital functions. Firefighters control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster assistance. The Georgia jobs for firefighters will increase by 9% between 2008 and 2018.

### **PATHWAY COURSES**

- Introduction to Law, Public Safety, Corrections and Security
- Essentials of Fire and Emergency Services
- · Applications of Firefighting

### **RECOMMENDED COURSES**

- Anatomy
- Business Law
- Chemistry
- Dual Enrollment Courses
- Physics
- · World Languages

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

- · Advanced Fire Administration
- AFO Airport Fire Officer
- AMF Airport Master Firefighter
- Basic Fire Company Officer
- Emergency Medical Responder
- Fire Fighter I & II
- Fire Officer I & II
- · Firefighter/EMSP
- Fire Science
- · Fire Science Technology
- · Health & Safety Officer
- ISO Incident Safety Officer
- · Public/Private Crisis Manager

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- SkillsUSA



## **FIREFIGHTING PATHWAY**

### **TOP CAREERS CHOICES**

### First Line Supervisors and Prevention Workers

Bachelor Degree needed \$53,600 annual salary 90 annual average openings in Georgia

### Fire Inspectors

Some College/No Degree Required \$46,500 annual salary 10 annual average openings in Georgia

### **Firefighters**

Some College/No Degree Required \$35,500 annual salary 440 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Forest Fire Inspectors and

Prevention Specialists Lifeguards,

Ski Patrol, Other Recreational Protective

Service Workers Private Detectives and

Investigators



Source: GADOE Plans of Study



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

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- Accounting
- Anatomy
- · Any health care science course
- · Introduction to Business and Technology
- World Language
- Forensics Science Elective
- Legal Environment of Business
- Wildlife Management
- · Work-Based Learning

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- · Criminal Justice Technology
- Law Enforcement Technician

### **COLLEGES/UNIVERSITIES**

- Criminal Justice
- Criminology
- Pre-law

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- SkillsUSA

LAW, PUBLIC SAFETY, CORRECTIONS

## **LAW ENFORCEMENT PATHWAY**

### **TOP CAREERS CHOICES**

### **Corrections Officer**

Moderate-Term On-the-Job Training needed \$27,498 annual salary 470 annual average openings in Georgia

### Forensic Science Technician

Associate Degree needed \$35,818 annual salary 20 annual average openings in Georgia

### Lawyer

First Professional Degree needed \$115,960 annual salary 460 annual average openings in Georgia

### Police and Sheriff's Patrol Officer

Long-Term On-the-Job Training needed \$35,402 annual salary 910 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Attornev

**Bailiff** 

**Border Patrol** 

Correctional Officer/Jailer

Crime Scene Investigator

Detective

Dispatcher and Communications Officer

Forest Ranger

Game Warden

Judge

Paralegal

Parole Officer

Police Officer

Private Detective and Investigator

Private Security Guard

**Probation Officer** 

Sheriff's Deputy

Special Agent

State Trooper



Source: GADOE Plans of Study



Law, public safety, corrections, and security workers plan, manage and provide legal, public safety, security, and protective services. Occupations are numerous and represent multiple levels of education and skills. Courses are designed to provide students with the understanding of the various services which ensure the proper function of our nation's legal system. Job openings will stem from employment growth attributable to the desire for increased corporate, industrial and homeland security. Also, a more security-conscious society and concern about drug-related crimes should contribute to the increasing demand.

### **PATHWAY COURSES**

- · Introduction to Law, Public Safety, Corrections and Security
- · Essentials of Legal Services
- · Applications of Law

### **RECOMMENDED COURSES**

- American Government/Civics
- Any World Language
- · Introduction to Cybersecurity
- Introduction to Digital Technology
- Journalism
- Psychology

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

**TECHNICAL COLLEGES** 

- Paralegal Studies
- Legal Assistant
- Court Reporting
- Public Safety Training

### **COLLEGES/UNIVERSITIES**

- Criminal Justice/Criminology
- Emergency Management/Homeland Security
- Law Enforcement Administration
- Police Science
- · Pre-Law leading to Law School

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- SkillsUSA

FORSYTH COUNTY SCHOOL DISTRICT 2018-2019 Career Planner



## LEGAL SERVICES/ APPLICATIONS **OF LAW PATHWAY**

### **TOP CAREERS CHOICES**

### **Attorneys**

Advanced Degree needed \$137,700 annual salary 690 annual average openings in Georgia

### **Court Reporters**

Some College/No Degree Required \$51,300 annual salary 40 annual average openings in Georgia

### Paralegals and Legal Assistants

Bachelor Degree needed \$45,300 annual salary 360 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Correction Officers & Jailers

Criminal Investigators

**EMTs & Paramedics** 

Firefighters

Information Security IT Specialists

Police Officers

**Public Safety Communication** 

Security & Protective Services





The Manufacturing Pathway provides students with opportunities to become familiar with manufacturing careers and develop fundamental technological literacy as they learn about the history, systems, and processes of manufacturing. Students will also learn about computer aided design (CAD), computer numerical control (CNC), robotics, computer assisted manufacturing (CAM), programmable logic controllers, automated guided vehicles (AGV), and computer integrated manufacturing (CIM). In the end students will have the understanding of how to design and implement a production system.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- Algebra
- Any Science Elective
- Computer Applications
- World Language (German)

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

- Basic Machinist
- CNC Technology
- Electrical Control Systems
- Industrial Electrician
- Industrial Fluid Power Technician
- Industrial Mechanical Systems
- Industrial Motor Control
- Industrial Systems Technology
- · Lathe Operator
- Mechatronics Technology
- Mill Operator
- · Precision Machining and Manufacturing
- Process Control
- Programmable Control Technician
- Robotic Technician
- Technician I & II
- Welding Certificate
- Welding Technology

### COLLEGES/UNIVERSITIES

- Industrial Engineering
- Manufacturing Engineering
- Manufacturing Technology
- Industrial Technology and Management
- Production Design

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- FIRST Robotics
- TSA

### **MANUFACTURING**

## MANUFACTURING PATHWAY

### **TOP CAREERS CHOICES**

Manufacturers produce numerous products in daily demand by customers. People employed in manufacturing deal with such areas as planning, managing and performing the processing of materials into intermediate or final products. They also deal with related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

### **Plant Manager**

\$50,000 - \$130,000 annual salary 30-60 annual openings per year

### **Manufacturing Engineer**

\$60,000 - \$140,000 annual salary 75-100 annual openings per year

### **Manufacturing Supervisor**

\$40,000 - \$120,000 annual salary 75-100 annual openings per year

### ADDITIONAL CAREER CHOICES

Control System Analyst

Department Manager

**Production Supervisor** 

**Quality Supervisor** 

Technician

Welder





Mechatronics is a diverse field. It encompasses many inter-related disciplines including Electronics, Mechanics, Fluid Power, Electrical Control Systems, Programmable Logic Controllers (PLC), Computers, and Robotics. Mechatronics is a term which includes the above disciplines and takes an integrated approach to their study. People employed in the mechatronics field deal with automated systems in a wide variety of applications. They also deal with related professional and technical support activities such as production planning and control, maintenance, and engineering.

### **PATHWAY COURSES**

- Introduction to Mechatronics-DC Theory, Pneumatic Systems, and PLC
- AC Theory, Electrical Motors, and Hydraulic Systems
- Semiconductors Mechanical Sys, and Pump and Piping Systems

### **RECOMMENDED COURSES**

- Advanced Math
- Physics
- · Foundations of Engineering and Technology
- Intro to Digital Technology

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

- 4-Year Universities/Colleges
- · 2-Year Colleges
- Technical Colleges
- State Registered Apprenticeships
- Special Purpose Schools
- On-the-Job Training
- Military

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- FIRST Robotics
- TSA

### **MANUFACTURING**



## MECHATRONICS PATHWAY

### **TOP CAREERS CHOICES**

### **Industrial Engineer**

Bachelor's Degree \$76,880 annual salary

### **Industrial Engineering Technician**

Associate's Degree \$48,330 annual salary

### **Industrial Machinery Mechanics**

On-Job-Training \$42,500 annual salary

### **ADDITIONAL CAREER CHOICES**

Chemical Plant & System Operators

Commercial & Industrial Equipment Repairers

Computer User Support Specialists

**Electrical and Electronics Repairers** 

**Electronics Engineering Technicians** 

**Industrial Engineers** 

Industrial Engineering Technicians

**Industrial Machinery Mechanics** 





The Fashion Marketing pathway introduces students to the retail industry including the fundamentals of fashion marketing, key marketing concepts essential to every business, types of businesses involved in the industry, and an array of career opportunities. Students will develop skills in such areas as fashion economics, marketing segmentation and target marketing, product selection and buying, and inventory systems. Additionally, students will develop skills necessary for managing the following marketing elements: pricing, visual merchandising, advertising, special promotions, professional sales, and customer service.

### **PATHWAY COURSES**

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

### **RECOMMENDED COURSES**

- Any Business and Computer Science course
- · Marketing and Management
- Work-Based Learning
- · World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### TECHNICAL COLLEGES

- Business Management
- · Cosmetics and Fragrance Marketing
- Interior Design
- · Retail Manager
- Retail Merchandise Management
- Sales Professional Certificate
- Visual Merchandising Associate Certificate

### **COLLEGES/UNIVERSITIES**

- Advertising and Marketing Communications
- Fashion Design
- Fashion Journalism
- Fashion Marketing and Management
- · Public Relations
- Textile Development and Marketing

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- DECA
- FBLA

### **MARKETING**

# FASHION, MERCHANDISING & RETAIL MANAGEMENT PATHWAY

## TOP CAREERS CHOICES

### **Advertising and Promotions Manager**

Bachelor Degree needed \$100,300 annual salary

### Wholesale and Retail Buyers

Bachelor Degree needed \$58,800 annual salary 80 annual average openings in Georgia

### **Online Merchants**

Bachelor Degree needed \$66,000 annual salary

### **ADDITIONAL CAREER CHOICES**

**Brand Managers** 

**Divisional Merchandise Managers** 

Entrepreneurs/Company Owners

**Fashion Designers** 

Financial Analysts

General Merchandise Managers

Merchandise Analysts

Manufacturer's Sales Representatives

Manufacturer's Store Coordinators

Product Developers

Retail buvers

Visual Merchandisers

Work-Based Learning





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 COURSES**

- Marketing Principles
- · Marketing and Entrepreneurship
- Marketing Management

### **RECOMMENDED COURSES**

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

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

- Business Administration
- Business Management
- 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

- CTI
- DECA
- FBLA

**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

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
Advertising Executive
Agent
Airline Customer Service Agent
Art Dealer and Director
Automobile Salesperson
Barber and Salon Owner
Brand Manager
Cashier
Communications Specialist

Creative Director
Customer Service Representative

Demonstrator and Product Promoter Desktop Publisher

Entertainment Marketer

Entrepreneur
Fashion Retailer
Floral Designer
Funeral Director

Insurance Agent Interior Designer Landscape Architect

Logistics Specialist
Market Research Analyst

Marketing Specialist Media Buyer

Mortgage Broker Painter and Illustrator

**Product Development Management** 

Public Relations Specialist

Purchaser

Real Estate Agent

Retail Buyer and Salesperson

Sales Representative Sign Maker

Sports Marketer Travel Agent

Website Designer Web Developer



### Source: GADOE Plans of Study



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. These jobs are found in almost every industry, and the number of jobs available is expected to increase faster than average through 2020. 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**

- Marketing Principles
- Promotion and Professional Sales
- Marketing Communications Essentials

### **RECOMMENDED COURSES**

- Any Business and Computer Science Course
- Entrepreneurship
- Marketing Management
- · Work-Based Learning
- World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

### **TECHNICAL COLLEGES**

- Business Administration
- · Expert Sales Management
- Project Management

### **COLLEGES/UNIVERSITIES**

- Accounting
- Advertising
- Business Economics
- Communication
- Graphic Arts
- International Business
- Management
- Marketing
- Professional Sales

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- DECA

### **MARKETING**

## **MARKETING COMMUNICATIONS AND PROMOTIONS PATHWAY**

### **TOP CAREERS CHOICES**

### **Advertising and Promotions Manager**

Bachelor Degree needed \$102,602 annual salary 71 annual average openings in Georgia

### **Public Relations Specialists**

Bachelor Degree needed \$57,399 annual salary 112 annual average openings in Georgia

### **Market Research Analysts**

Bachelor Degree needed \$66,503 annual salary 519 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Advertising and Promotion Managers Search

**Business Teachers/Post-Secondary** 

Green Marketers

Marketing Managers

Marketing Strategists

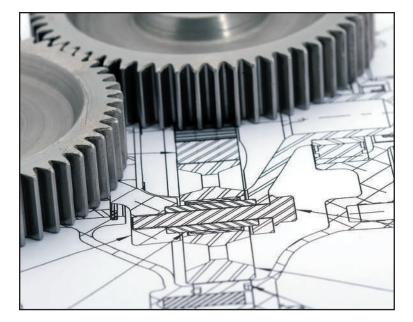
Public Relations Specialists Advertising

Sales AgentsSales Managers

Sales Representatives



### Source: GADOE Plans of Study



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

### **TECHNICAL COLLEGES**

- Electrical Utility Technology
- Engineering Technology
- Industrial Systems Technology
- Mechatronics Technology
- Military
- On-the-Job Training
- Special Purpose Schools
- State Registered Apprenticeships
- Wireless Engineering Technology

### COLLEGES/UNIVERSITIES

• See www.GAcollege411.org for additional information.

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- FIRST Robotics
- 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





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**

- Fundamental of Aerospace
- Flight Operations I
- Flight Operations II

### **RECOMMENDED COURSES**

- · Any Business or Marketing Course
- Any World Language
- · Any Engineering Course
- Chemistry/Physics/Environmental Science
- Human Geography

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

- Aerospace Engineering
- Aviation Management
- Professional Flight/Aeronautics

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- CTI
- SkillsUSA
- TSA



### TRANSPORTATION, DISTRIBUTION, & LOGISTICS

## **AERONAUTICS, FLIGHT OPERATIONS PATHWAY**

### **TOP CAREERS CHOICES**

### **Air Traffic Controllers**

Associate's Degree \$124,540 annual salary 40 annual average openings in Georgia

### **Airfield Operations Specialists**

High School Diploma \$44,500 annual salary 40 annual average openings in Georgia

### **Commercial Pilots**

Bachelor's Degree preferred/commercial pilot's license required \$111,930 annual salary 80 annual average openings in Georgia

### **ADDITIONAL CAREER CHOICES**

Aerospace Engineers

Aircraft Cargo Handling Supervisors

Airfield Operations Specialists

**Aviation Safety Specialists** 

**Avionics Inspectors** 

Flight Attendants

**Operations Technicians** 





Transportation plays a major role in this pathway. The movement of goods and raw materials (distribution) to specific locations, on time and in the most efficient and effective process is critical in most industries. More specifically, this includes the shipment of raw materials to the manufacturer and movement of finished products to customers. In addition, transportation consists of the movement of parts to assembly areas as they are assembled. The term "logistics" encompasses the movement of goods and services. The question businesses face on an ongoing basis, especially in a highly competitive marketplace, is how to move their products efficiently and cost effectively throughout the supply chain, which represents all the members of the distribution chain. The logistics process includes the management of freight, warehousing of materials, inventory management and the packaging of products for storage and shipment.

### **PATHWAY COURSES**

- · Logistics Fundamentals
- · Logistics Operations
- Materials Management

### **RECOMMENDED COURSES**

- · Foundations of Engineering and Technology
- Intro to Digital Technology
- Introduction to Mechatronics

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

- · 4-Year Universities/Colleges
- 2-Year Colleges
- Military
- · On-the-Job Training
- Special Purpose Schools
- State Registered Apprenticeships
- Technical Colleges

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- SkillsUSA

### FORSYTH COUNTY SCHOOL DISTRICT **2018-2019** Career Planner



### TRANSPORTATION, DISTRIBUTION, & LOGISTICS

## **DISTRIBUTION AND LOGISTICS PATHWAY**

### **TOP CAREERS CHOICES**

### **Logistics Manager**

Bachelor's Degree \$68,900 annual salary

### **Materials Mover**

Diploma, Industry Credential \$23,400 annual salary

### Storage and Distribution Manager

Bachelor's Degree \$77,900 annual salary

### **ADDITIONAL CAREER CHOICES**

Clerks

Laborers and Freight, Stock and Materials

Logisticians

Logistics Analysts

**Logistics Engineers** 

Logistics Managers

Movers

Packers and Packagers

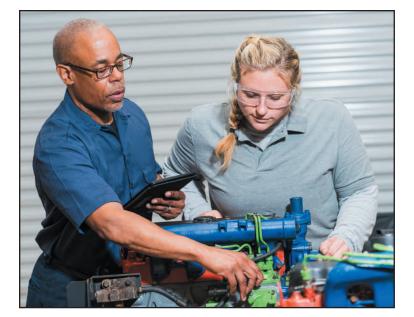
Power Distributors & Dispatchers

Production, Planning & Expediting

Storage and Distribution Managers

Supply Chain Managers

**Transportation Managers** 



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**

- Basic Maintenance and Light Repair
- Maintenance and Light Repair 2, 3
- Automobile Service Technology 4, 5, 6
- Master Automotive Service Technology 7, 8
- Automobile Service Technology Internship

#### **RECOMMENDED COURSES**

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

#### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

#### **TECHNICAL COLLEGES**

- ASF
- Automotive Collision Repair
- Automotive Technology/Technician
- Industrial Truck (Fork Lift) Maintenance Technician
- Motorsports Vehicle Technology
- Welding

#### **COLLEGES/UNIVERSITIES**

- Automotive Engineering
- Business Management
- Education

#### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS**

- CTI
- SkillsUSA

FORSYTH COUNTY SCHOOL DISTRICT **2018-2019** Career Planner



#### TRANSPORTATION, DISTRIBUTION, & LOGISTICS

## MASTER AUTOMOTIVE SERVICE TECHNICIAN PATHWAY

#### **TOP CAREERS CHOICES**

#### Automotive Service Technician and Mechanics

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

#### Bus and Truck Mechanic/Diesel Engine Specialist

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

#### Electrical and Electronics Repairers, Commercial and Industrial Equipment

Post-Secondary Vocational Certification \$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 or Body Technician

Automotive Engineer

**Automotive Mechanist** 

**Automotive Parts Sales** 

Automotive Sales

**Body Shop Manager** 

Dealership or Shop Owner

**DOT Salvage Inspector** 

Insurance Adjuster

Parts Professional

Quality Control Technician

Retail

Service Advisor

Service Director Dealership

Specialized Technician Teacher

Technician (ASE Certified)

Warranty Clerk

Waste Management (EPA)



Source: GADOE Plans of Study

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



#### **WORK-BASED LEARNING (WBL)**

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

#### REQUIREMENTS FOR WBL

- 16 years of age or older and rising junior or a senior in good standing with the school system
- A valid picture ID
- A Georgia Driver's License and proof of auto insurance in order to provide your own dependable transportation or ability to provide your own dependable transportation
- On track for graduation and willing to utilize the Work-Based Learning Program as an elective credit
- Career, technical, and agriculture education (CTAE), academic, fine arts, or world language coursework related to a career goal and job placement
- · A good attendance and discipline record
- Parental support and consent
- Willing to submit to all health related screenings required by the sponsoring employer (ex.pre-employment drug screenings, etc.)

#### **WBL COORDINATORS**

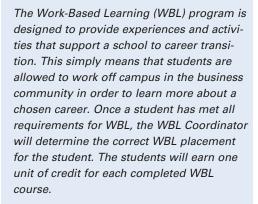
The FCS follows the state model for Work-Based Learning Coordinators where each high school has one Career Development Coordinator. The coordinator is required to attend GADOE trainings, as well as all region meetings. Some responsibilities of the coordinator include: properly placing students in the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

#### CAREER DEVELOPMENT COORDINATORS

- Susan Fagan North Forsyth High School
- Emily Henderson Alliance Academy for Innovation and West Forsyth High School
- Dianne King Denmark High School and Lambert High School
- Debra Moore South Forsyth High School
- Nancy Ruff Academies of Creative Education and Forsyth Centeral High School

SPECIALTIES

#### WORK-BASED LEARNING



#### WBL IS AVAILABLE THROUGH THE FOLLOWING PROGRAMS

- Agriculture, Food, and Natural Resources
- Architecture and Construction
- Arts, A/V Technology, and Communications
- Business Management and Administration
- Education and Training
- Energy
- Finance
- Government and Public Administration
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Correction and Security
- Manufacturing
- Marketing
- Science, Technology, Engineering and Mathematics (STEM)
- Transportation Distribution and Logistics

#### **OTHER PATHWAYS**

- Advanced Academic Pathways
- Fine Arts Pathways
- World Language Pathways



#### THIS EXPERIENCE IS FOR STUDENTS WHO:

- · Would like to explore their passion for a profession!
- Would like to stand out in a competitive college application and job market!
- Seek to gain valuable networking skills and contacts!

#### WOULD LIKE TO WORK WITH A COMMUNITY MENTOR!

Are ready to research a specific career field, build a career portfolio, and present a culminating capstone project to a community panel!

#### WHY SHOULD I BE PART OF THE HONORS MENTORSHIP PROGRAM?

- Being part of this program is a great addition to your college applications.
- 2. This internship program will introduce you to career skills in the field.
- This program will help you to differentiate yourself when applying for college and future job opportunities.
- 4. This program will help you determine if this is the field you want to continue, as well as, develop contacts for future job opportunities.

#### WHAT IS THE APPLICATION PROCESS?

After completing an application, students are selected into the program based on their abilities, aptitudes, and career goals. In addition, students are required to answer essay questions and include teacher and community member references. The selection committee will use all written evidence and data gathered in the application to make their selection. You will be contacted by May 2019 if you are selected into the program.

#### WHAT WILL I DO IN THE HONORS MENTORSHIP PROGRAM, AND HOW WILL I BE GRADED?

First, you will be paired with a mentor who is an expert and/or professional in the field of your choice. Once you have been paired, you will begin an internship that will occur 4-5 hours per week for a full school year. In addition, you will complete weekly assignments through itslearning. The majority of your grade will be from your capstone portfolio project, which you will be researching and working on throughout the year.

#### DO I ACTUALLY COME TO CLASS EACH DAY?

No. We will have monthly face to face meetings, but all other coursework and communication will happen through a virtual environment via its learning.

#### WHAT FIELDS/CAREERS ARE OFFERED IN THE HONORS MENTORSHIP PROGRAM?

We are currently offering any type of career fields. As long as we can secure a community mentor for you to intern with, the possibilities are endless!

**SPECIALTIES** 

#### HONORS MENTORSHIP

PICKUP AN APPLICATION from the Counseling Office or email vlowe@forsyth.k12.ga.us!

#### **ARE YOU READY?**

Honors Mentorship is a year-long blended learning experience for intellectually gifted or artistically talented 11th and 12th grade students!

#### WHAT IS IT?

The Honors Mentorship Program is an instructional program designed to provide intellectually gifted and artistically talented high school students challenging and enriching career-based educational opportunities. The program gives motivated, mature students a career mentorship designed around the individual student's interest in a specific field or career. Participants are matched with a Community Mentor and will work with that mentor for the duration of the scheduled class while engaging in real-life career experience along with the latest information and technology in the field.

#### WHO CAN APPLY?

We encourage any intellectually gifted or artistically talented rising 11th and 12th grade students who desire a challenging, enriching, and career-based internship opportunity to apply. Student MUST be highly motivated and mature to be accepted in to the program.

Note: Each participant will be responsible for his/her own transportation to the worksite of his/her assigned mentor and to the off-campus classroom.

#### HONORS MENTORSHIP COORDINATORS

- Susan Fagan North Forsyth High School
- Emily Henderson Alliance Academy for Innovation and West Forsyth High School
- Dianne King Denmark High School and Lambert High School
- Debra Moore South Forsyth High School
- Greg Walkup Forsyth Central High School



**SPECIALTIES** 

#### **CAREER PATH PARTNER**

FOR ADDITIONAL INFORMATION Contact vlowe@forsyth.k12.ga.us or visit www.forsyth.k12.ga.us/ccd today!

#### DO YOU KNOW OF BUSINESS/INDUSTRY IN THE COMMUNITY WHO WOULD LIKE TO GET INVOLVED AS A CAREER PATH PARTNER?

Forsyth County Schools is committed to building a strong base of business, industry, and community support that can help provide career development opportunities for our students! These partnerships allow students to go beyond the classroom and into the community to consider different career fields, learn basic workplace behavior, and develop specific skills within an industry. Through career development opportunities, students can apply what they are learning in the classroom as they prepare to transition into post-secondary education and training. Here are some ways to get involved:

#### CAREER PATH PARTNERS OPPORTUNITIES FOR **PARTICIPATION:**

- · Advisory Council Participation
- Curriculum Development
- Teacher Externships
- Facilities/Equipment
- Job Shadowing Placement
- · Work-Based Learning Placement
- · Classroom Speaking
- CTSO Support
- · Competitive Event Judging
- · Awards/Recognition Support
- · Career Transitions for Students with Special Needs and/or At-Risk Students

#### WE ARE LOOKING FOR BUSINESS/INDUSTRY THAT WILL BE WILLING TO:

- Commit to work with schools for the school year and have active participation in a career pathway.
- Attend a one-hour pathway advisory council meeting (once a semester).
- Display your Career Path Partnership, such as a decal or partnership certificate in your place of business.
- Like and follow FCS/College & Career Development on Facebook and Twitter. Share photos, stories of success, and events.
- Report volunteer activities in our Career Path Platform.
- · Maintain an active working relationship with pathway leadership and system career development coordinators.



www.forsyth.k12.ga.us/page/38110



#### DRESS FOR SUCCESS DAYS ALLOW STUDENTS TO:

- Foster confidence and continue to develop a positive self-image
- Understand the importance of dressing well for an interview
- · Analyze various types of attire for the workplace
- Describe components of acceptable dress for an interview
- Explain various definitions of business casual dress and discuss why companies have different definitions of business casual

#### **ESSENTIAL COMPONENTS OF DRESS FOR SUCCESS DAYS:**

- Campus Impact: Students around the school campus not involved in a career pathway or CTSO learn more about the importance of looking your best!
- Family/Community Connections: Local business/industry are able to demonstrate and speak to classes about proper interview attire and bring samples for students to see.
- CTSO Connection: Students learn how proper dress will impact them in student competition related to their career pathway.
- Service Learning Projects: Students are encouraged to organize service learning projects around dressing successfully. This may come through organizing a professional interview clothing drive or selling awareness bracelets, stickers, etc. to support their CTSO.

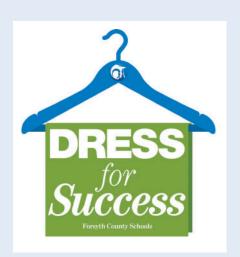


**SPECIALTIES** 

#### **DRESS FOR SUCCESS**

FOR ADDITIONAL INFORMATION Contact vlowe@forsyth.k12.ga.us or visit www.forsyth.k12.ga.us/ccd today!

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









Career and Technical Instruction

Georgia Career and Technical Instruction (CTI) is an organization which provides an avenue for students with disabilities to learn self-advocacy, career exploration and the skills needed for successful transition into their career goals after graduation. Georgia CTI is not organization based on membership. This is achieved through the local CTI Coordinator who works with each CTI student enrolled in a CTAE course. Once a CTI student has declared a career pathway based on assessments, aptitude and interest testing, it is encouraged that the student join the GA CTSO that best fits his/her career interest if available in their local school.

Applicable Pathways: All CTAE Career Clusters and Pathways.





Distributive Education Clubs of America

DECA is a co-curricular 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.

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

**SPECIALTIES** 

# CAREER & 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 Agricultural 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 Throughout this book, a school key system is used to indicate which programs, classes, and clubs are offered at each school. Alliance Academy Denmark High School Forsyth Academy Forsyth Central High School Forsyth Virtual Academy West Forsyth High School West Forsyth High School

# CAREER & TECHNICAL STUDENT ORGANIZATIONS





Future Business Leaders of America

Georgia FBLA is a nonprofit 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. Applicable Pathways: Computer Science, Financial Services, Accounting, Entrepreneurship, Human Resources Management, Programming, Web



Development, Networking.



Family, Career, and Community Leaders of America

FCCLA is a national 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.

**Applicable Pathways:** Family and Consumer Sciences, Culinary Arts, Human Services, Education.





FFA represents the relevancy to the core areas offering students opportunities that change lives and prepares students for premier leadership, personal growth and career success. Founded in 1928, the FFA organization represents a large diversity of over 300 careers in the food, fiber, and natural resources industry. FFA is an integral part of a school system. FFA uses agricultural education to create real-world success. Agriculture teachers become advisors to local FFA chapters, which students join. More than 7,000 FFA chapters are currently in existence; their programs are managed on a local, state and national level. Each chapter's Program of Activities is designed with the needs of the students in mind. Activities vary greatly from school to school, but are based in a well-integrated curriculum. Chapter activities and FFA programs concentrate on three areas of our mission: premier leadership, personal growth, and career success. The FFA motto gives members twelve short words to live by as they experience the opportunities in the organization. Learning to Do, Doing to Learn, Earning to Live, Living to Serve.

**Applicable Pathways:** Agriculture Leadership, Animal Science, Plant Science/Horticulture, Veterinary Science, and Agriculture Mechanics.





FIRST was founded in 1989 to inspire young people's interest and participation in science and technology. Based in Manchester, NH, the 501(c)(3) not-for-profit public charity designs accessible, innovative programs that motivate young people to pursue education and career opportunities in science, technology, engineering, and math, while building self-confidence, knowledge, and life skills. FIRST is More Than Robots. FIRST participation is proven to encourage students to pursue education and careers in STEM-related fields, inspire them to become leaders and innovators, and enhance their 21 st century work-life skills.

**Applicable Pathways:** Engineering, Manufacturing, Mechatronics.

# SCHOOL KEY SYSTEM Throughout this book, a school key system is used to indicate which programs, classes, and clubs are offered at each school. Alliance Academy Denmark High School Forsyth Academy Forsyth Central High School Forsyth Virtual Academy West Forsyth High School West Forsyth High School







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.

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





Georgia SkillsUSA members participate in local, state, and national activities provided through trade and industrial, technical, and health occupations courses and programs. 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

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





Georgia Technology Student Association (GA TSA) is committed to providing students with opportunities to excel and advance as part of their instruction in 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.

**Applicable Pathways:** Energy Systems, Engineering, Manufacturing, Mechatronics.



#### JA DISCOVERY CENTERS

ja biztown & ja finance park

#### ANNUAL IMPACT

**STUDENTS** 80,000 **VOLUNTEERS** 15,000

**TEACHERS** 5,000

**PARTNERS** 300

#### TOTAL IMPACT TO DATE

STUDENTS 170,000+

LEARNING HOURS 4,700,000+

#### SCHOOL SYSTEM PARTNERS

ATLANTA PUBLIC SCHOOLS

CALHOUN CITY SCHOOLS

DAWSON COUNTY SCHOOLS

DEKALB COUNTY SCHOOLS

FORSYTH COUNTY SCHOOLS

**FULTON COUNTY SCHOOLS GAINESVILLE CITY SCHOOLS** 

**GWINNETT COUNTY PUBLIC SCHOOLS** 

HALL COUNTY SCHOOLS

**LUMPKIN COUNTY SCHOOLS** 

MARIETTA CITY SCHOOLS

#### PRESENTED BY:



















georgia.ja.org | @jageorgia

#### OVERVIEW

Through the JA Chick-fil-A Foundation Discovery Center in Atlanta, the JA Discovery Center at Gwinnett and the Mike & Lynn Cottrell JA Discovery Center at North Georgia, a quarter of all middle school students in Georgia participate in the unique and innovative learning delivered by JA BizTown and JA Finance Park. These 360-degree programs bring relevance, authenticity and application into the traditional learning model in order to energize students around academics and their future possibilities.

#### MODELS

#### JA BizTown

An unforgettable experience where students interact within a simulated economy and take on the challenge of fueling a business. Here, students discover the intricacies of being a member of the community, while exploring a myriad of opportunities awaiting their futures.

#### **JA Finance Park**

An authentic simulation where students experience their financial futures. Guided by their 'life situation,' students apply knowledge gained in the classroom to make routine budget decisions; ultimately, building skills to confidently navigate today's economic environment.

#### **MEASUREMENTS OF SUCCESS**

With a focus to engage students in learning and provide all children the opportunity to develop the knowledge, skills, and confidence to thrive, JA collaborated with partners and thirdparty evaluators to develop an evaluation framework that measures key indicators to drive students' success in academics and beyond:

#### **Student Engagement**

Through authentic, experiential and relevant programming, students exhibit positive increases in behavioral and cognitive engagement in academics.

#### **Content Knowledge**

With both in-class and on-site learning, students develop foundational economic, business and financial literacy concepts.

#### **Skills & Techniques**

Students apply higher-order thinking and problem-solving techniques as well as postsecondary, transferable skills within the context of a real-world setting.

#### Relevance of Education

Students discover the connections between academic lessons and realworld application in order to understand the influence of education on future opportunities.

#### OUTCOMES

#### More Than 90% of Teachers Observed Their Students Effectively Integrating



#### **Application of Content Knowledge**

VOLUNTEERS OBSERVED STUDENTS UNDERSTANDING HOW SAVINGS AND INVESTING, AND THE AMOUNT THEY PUT TOWARDS EACH, IMPACTS THEIR FUTURE FINANCIAL WELL-BEING.

#### Realization of Relevance of Education

TEACHERS BELIEVED PARTICIPATION HELPED STUDENTS UNDERSTAND IMPORTANCE OF SETTING 'REAL-WORLD' LONG-TERM GOALS.



yourself in a particular occupation and actively involved in a high school career pathway that aligns with that occupation!

**IMAGINE** 

**Internship & Honors Mentorship Information Career Counseling Opportunities College & University Booths Meet With Local Employers Career Pathway Education** 

#### **Forsyth Conference Center**

3410 Ronald Reagan Boulevard Cumming, Georgia 30041



LLEGE Career

across the district!

**CHOOSE** 

a career pathway

option that fits with

your unique needs,

interests, and talents!

Open to all Middle School students!

**December 14, 2018** 9AM - 4PM







## ALLIANCE ACADEMY FOR OF CUMMING-FORSYTH COUNTY

1100 Lanier 400 Parkway | Cumming, Georgia 30040

Ms. Brandi Cannizzaro, Principal bcannizzaro@forsyth.k12.ga.us



#### CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSO'S)







#### **HONOR SOCIETIES**

Beta Club Mu Alpha Theta National Honor Society National Technical Honor Society

#### **OTHER CLUBS & ORGANIZATIONS**

Academic Bowl Debate Team
Math Team Mock Trial
Student Leadership Science Olympiad
Robotics Team Yearbook

#### **FIVE INTEREST-THEMED ACADEMIES**



#### SCHOOL OF AEROSPACE & LOGISTICS

Distribution and Logistics Flight Operations



#### SCHOOL OF CRIMINAL JUSTICE & LAW

Applications of Law Cyber Security Law Enforcement Services Legal Services



#### **SCHOOL OF HEALTHCARE & FIRST RESPONDERS**

Emergency Medical Responder Fire and Emergency Services Healthcare Information Technology



#### SCHOOL OF HOSPITALITY & DESIGN

Graphic Design Hospitality and Tourism



#### SCHOOL OF MECHATRONICS & ENERGY

Energy Systems Mechatronics



# ALLIANCE ACADEMY FOR OF CUMMING-FORSYTH COUNTY



Alliance Academy for Innovation is an excellent choice for Forsyth County students interested in pursuing their passion in high school. The five interest-themed academies provide unique, exciting, and innovative pathways for students to own their future in college, career, and life. Career pathways, innovative

courses, and personalized learning are an integral part of Alliance Academy.

Students complete Georgia high school graduation requirements as well as participate in real world experiences in simulated work environments, complete internships, and receive industry certification.

Alliance Academy provides an interdisciplinary curriculum with a culture of teamwork, creative thinking, collaboration, and communication.

Find your passion at Alliance Academy where the possibilities are endless.

Brandi Cannizzaro
Principal

#### ANTICIPATED ADVANCED PLACEMENT COURSE OFFERINGS

**AP Biology** 

AP Calculus AB

AP Calculus BC

AP Chemistry

AP Computer Science

**Principles** 

AP English Language

AP Environmental Science

AP German Language

**AP Macroeconomics** 

AP Spanish Language

**AP Statistics** 

AP Physics 1 & 2

AP Psychology

AP World History

**AP US History** 

**AP US Government** 

#### **DUAL ENROLLMENT OPPORTUNITIES**

eCORE

(Online Core Credit-University System of Georgia)

Georgia Institute of Technology

Lanier Technical College

University of North Georgia

#### RIGOR

All students form
a deeper
understanding of
required
academic subjects
and pathway courses
to prepare them for
college and career.

#### RELEVANCE

Teachers incorporate real-world examples into all academic and pathway courses through the theme of the Academy.

#### RELATIONSHIPS

similar personalized environments with classmates with common interests and a team of teachers who serve as advocates.

#### **READINESS**

Connections
with business and
community partners
provide students
with professional and
academic skills for
post-secondary and
career success.



### Great Careers Begin Here!



43 exciting program areas filled with High Demand/High Wage Jobs



#### We're training YOU for Georgia's **HOT** Careers to 2026!

#### <u>Associate Degree Programs</u>

(with Annual Wages & Job Openings) Dental Hygienist - \$63,800 with 200 jobs

Physical Therapist Assistant - \$55,700 with 110 jobs

Radiologic Technologist - \$52,500 with 180 jobs

Registered Nurse - \$64,100 with 2,980 jobs

Web Developer - \$79,300 with 140 jobs

#### Diploma Programs

(with Annual Wages & Job Openings) Computer Support Specialist - \$52,700 with 570 jobs

Automotive Body/Related Repairers - \$49,700 with 150 jobs

Supervisors of Construction Trades - \$59,000 with 380 jobs

Office Supervisors - \$56,800 with 1,160 jobs

Source: Georgia Department of Labor



#### LANIER 28 Courses Guaranteed to Transfer\* to UNG, UGA, GA Tech, and Other Public Universities in Georgia

#### Close By! • Affordable! • Class Options!

The 28 courses listed below will transfer\* to any school within the University System of Georgia.

\*Guaranteed Transfer with a grade of C or better

Technical College System of Georgia		University System of	USG Area option if USG
(title, prefix, & number)		Georgia Equivalent	equivalent not available
American Government	POLS 1101*	POLS 1101	Area E – Social Sciences
American Literature	ENGL 2130	ENGL 2130	Area C – Humanities, Fine Arts, & Ethics
Art Appreciation	ARTS 1101	ARTS 1100 - 1107	Area C - Humanities, Fine Arts, & Ethics
Biology Introduction I	BIOL 1111	BIOL 1111	Area D – Natural Sciences, Math, & Technology
	BIOL 1111L	BIOL 1111L	Non – Majors biology credit
Biology Introduction II	BIOL 1112	BIOL 1112	Area D – Natural Sciences, Math, & Technology
	BIOL 1112L	BIOL 1112L	Non – Majors biology credit
Calculus	MATH 1131	MATH 1131	Area A2 – Quantitative Skills
			Area D – Natural Sciences, Math & Tech
Chemistry I (Intro)	CHEM 1151	CHEM 1151	Area D – Natural Sciences, Math, & Technology
	CHEM 1151L	CHEM 1151L	Non – Majors chemistry credit
Chemistry II (Intro)	CHEM 1152	CHEM 1152	Area D – Natural Sciences, Math, & Technology
, , , , , , , , , , , , , , , , , , , ,	CHEM 1152L	CHEM 1152L	Non – Majors chemistry credit
College Algebra	MATH 1111	MATH 1111	Area A2 – Quantitative Skills
Economics (Macro)	ECON 2105	ECON 2105	Area E for Non - Majors
Economics (Micro)	ECON 2106	ECON 2016	Area E for Non - Majors
Economics (Principles)	ECON 1101	ECON 1101	Area E – Social Sciences
English Composition I	ENGL 1101	ENGL 1101	Area A1 –Communication
English Composition II	ENGL 1102	ENGL 1102	Area A1 –Communication
Humanities (Intro)	HUMN 1101	HUMN 1101	Area C – Humanities, Fine Arts & Ethics
Math Modeling (Intro)	MATH 1101	MATH 1101	Area A2 – Quantitative Skills
Pre – Calculus	MATH 1113	MATH 1113	Area A2 or Area D
Physics I (Intro)	PHYS 1111	PHYS 1111	Area D – Natural Sciences, Math, & Technology
	PHYS 1111L	PHYS 1111L	Non – Majors physics credit
Physics II (Intro)	PHYS 1112	PHYS 1112	Area D – Natural Sciences, Math, & Technology
	PHYS 1112L	PHYS 1112L	Non – Majors physics credit
Psychology (Intro)	PSYC 1101	PSYC 1101	Area E – Social Sciences
Public Speaking	SPCH 1101	COMM 1100-1110	Area B – Institutional Options
			Area C – Humanities, Fine Arts & Ethics
Quantitative Skills & Reasoning	MATH 1103	MATH 1001	Area A
Sociology (Intro)	SOCI 1101	SOCI 1101	Area E – Social Sciences
Statistics (Intro)	MATH 1127	MATH 1127	Area D – Natural Sciences, Math, & Technology
			(not approved in the USG for Area A)
US History I	HIST 2111**	HIST 2111	Area E – Social Sciences
US History II	HIST 2112**	HIST 2112	Area E – Social Sciences
World History I	HIST 1111	HIST 1111	Area E – Social Sciences
World History II	HIST 1112	HIST 1112	Area E – Social Sciences

This table applies if the accepting USG institution offers a comparable course

<sup>\*</sup>Satisfies US and GA Constitution legislative requirements

<sup>\*\*</sup>Satisfies US and GA History legislative requirements

ONE OF THE NATION'S VALUES

KIPLINGER'S PERSONAL FINANCE

ONE OF THE

IN THE SOUTH

U.S. NEWS & WORLD REPORT

ONE OF **AMERICA'S** COLLEGES

**FORBES** 



Blue Ridge • Cumming • Dahlonega Gainesville • Oconee



ung.edu



UNG is designated as a State Leadership Institution and as The Military College of Georgia\*.



# Find Your Passion! High School Career Pathway Options

## **Application Process School Choice**

DeSana MS



## ALLIANCE ACADEMY FOR INNOVATION

Distribution & Logistics Emergency Medical Responder Aeronautics/Flight Cybersecurity

**Energy Systems** Graphic Design Firefighting

Law Enforcement Services Hospitality & Tourism Technology

Health Information

Legal Services/ Application of Law Mechatronics

Little Mill MS Lakeside MS Otwell MS **Piney Grove MS** 



DENM&RK HIGH SCHOOL

FORSYTH CENTRAL High School

DENMARK High School

**Automotive Technology** Biotechnology

Marketing & Management Engineering & Technology Sports & Entertainment Teaching as a Profession Fashion Marketing Financial Services Veterinary Science Entrepreneurship Web Development **Culinary Arts** Marketing

Companion Animal Systems

Engineering & Technology

Cosmetology

Fashion Marketing

Food & Nutrition Marketing & Management

Computer Science

South Forsyth MS Riverwatch MS



Advanced Accounting

Marketing & Management Engineering & Technology Sports & Entertainment Marketing Diagnostics/Phlebotomy Business Accounting Computer Science Fashion Marketing Entrepreneurship Financial Services Food & Nutrition A/V Technology Biotechnology Culinary Arts Programming

Horticulture & Animal Systems

Food & Nutrition

Internet of Things

JROTC - Marines

Engineering & Technology

Computer Science

**North Forsyth MS** Little Mill MS Liberty MS



SOUTH FORSYTH High School

NORTH FORSYTH High School

Engineering & Technology **Business Accounting** Computer Science Fashion Marketing Human Resources Entrepreneurship Financial Services Manufacturing Culinary Arts Management

Animation & Digital Media

A/V Technology

Agricultural Leadership in Animal Production

in Horticulture

Marketing Communications Marketing & Managemen Sports & Entertainment **Feaching as a Profession** & Promotions Programming Marketing

Marketing & Managemen

Marketing Communications

& Promotions

Sports & Entertainment

Marketing

Teaching as a Profession

Sports & Entertainment eaching as a Profession

Marketing

Vickery Creek MS **Piney Grove MS** Liberty MS South Forsyth MS

Piney Grove MS

Lakeside MS

School Choice Application Process

Format Academy



FORSYTH Academy

**WEST FORSYTH High School** 

Human Resources

Management

Entrepreneurship

Marketing & Management

> Engineering & Technology Computer Science Fashion Marketing Food & Nutrition A/V Technology Cosmetology **Culinary Arts**

Sports & Entertainment Teaching as a Profession Web Development Marketing & Management Marketing

School Choice Application Process ORSYTH VIRTUAL Academy Business Accounting Computer Science Financial Services Game Design

Marketing & Management Sports & Entertainment Marketing Web Development All students enrolled in career and technical education have the opportunity to apply for Honors Mentorship (job shadowing) or Work-Based Learning (internships) within their pathway. Visit www.forsyth.k1.2.ga.us/ccd for more information or contact a Career Development Coordinator!

Web Development

Sports Medicine

