



Helping Students Graduate Agriculture

The Agriculture Program Concentration involves production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Agriscience Pathway

- 02.47100 Basic Agricultural Science and Technology
- 02.42100 Animal Science Technology/Biotechnology
- 02.44100 Plant Science and Biotechnology

Agribusiness Management Pathway

- 02.47100 Basic Agricultural Science and Technology
- 01.41200 Agribusiness Management and Leadership
- 01.41300 Marketing Agricultural Products and Services

Animal Science Pathway

- 02.47100 Basic Agricultural Science and Technology
- 02.42100 Animal Science Technology/Biotechnology
- 01.43200 Agricultural Animal Production & Management

Plant Science/Horticulture Pathway

- 02.47100 Basic Agricultural Science and Technology
- 01.46100 General Horticulture and Plant Science
- 01.47000 Nursery and Landscape

Agricultural Mechanics Pathway

- 02.47100 Basic Agricultural Science and Technology
- 01.42100 Agricultural Mechanics I
- 01.42200 Agricultural Mechanics II

Forestry/Natural Resources Pathway

- 02.47100 Basic Agricultural Science and Technology
- 03.45100 Forest Science
- 03.45300 Wildlife Management

Veterinary Science Pathway

- 02.47100 Basic Agricultural Science and Technology
- 02.42300 Small Animal Care
- 02.42400 Veterinary Science

GACollege411

Expand Your Opportunities



Helping Students Graduate in Architecture, Construction, Communications & Transportation

The Architecture, Construction, Communications & Transportation

Program Concentration involves designing, producing, exhibiting, and publishing multimedia content; managing, building and maintaining our built communities; planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Aircraft Support Pathway

- 47.46100 Fundamentals of Aviation
- 47.46200 Aviation Maintenance I
- 47.46300 Aviation Maintenance II

Architectural Drawing & Design Pathway

- 48.54100 Intro to Engineering Drawing & Design
- 48.54500 Architectural Drawing and Design I
- 48.54600 Architectural Drawing and Design II

Broadcast/Video Production Pathway

- 10.51110 Broadcast/Video Production I
- 10.51210 Broadcast/Video Production II
- 10.51310 Broadcast/Video Production III

Climate Control Systems Technology (HVACR) Pathway

- 46.54500 Occupational Safety and Fundamentals
- 47.51000 Introduction to Mechanical Systems
- 47.51100 HVACR 1 or 47.51800 Low Voltage Electrical 1
- 47.51300 HVACR 2 or 47.51900 Low Voltage Electrical 2

Collision Repair Pathway

- 47.56500 Introduction to Collision Repair
- 47.56600 Painting and Refinishing I
- 47.56700 Painting and Refinishing II or
- 47.56800 Non Structural Analysis and Damage Repair I
- 47.56900 Non Structural Analysis and Damage Repair II

Construction Pathway

- 46.54500 Occupational Safety and Fundamentals
- 46.54600 Introduction to Construction
- 46.55000 Carpentry I or 46.57000 Masonry I
- 46.55100 Carpentry II 46.57100 Masonry II
- 46.56000 Electrical I or 46.58000 Plumbing I
- 46.56100 Electrical II 46.58100 Plumbing II

Flight Operations Pathway

- 47.46100 Fundamentals of Aviation
- 47.46500 Navigation and Communication
- 47.46600 Aviation Meteorology

Graphic Communications Pathway

- 48.56100 Introduction to Graphics and Design
- 48.56200 Graphic Design and Production
- 48.56900 Graphic Output Processes

Graphic Design Pathway

- 48.56100 Introduction to Graphics and Design
- 48.56200 Graphic Design and Production
- 48.52800 Advanced Graphic Design

Marine Engine Technology Pathway

- 47.58000 Foundations of Marine Engine Technology
- 47.58100 Marine Electrical Systems
- 47.58200 Marine Engine Drive System
- 47.58300 Marine Structures and Transportation Repair

Metals Technology Pathway

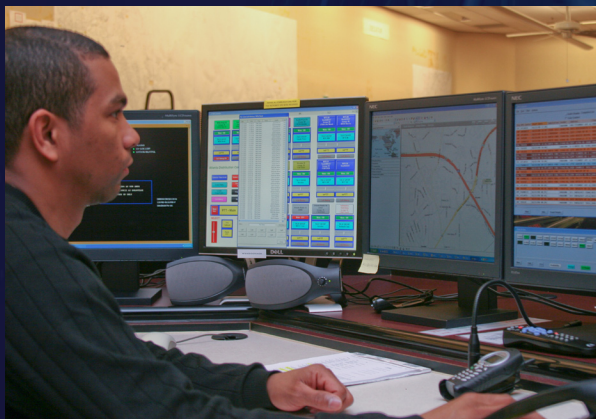
- 46.54500 Occupational Safety and Fundamentals
- 48.58100 Introduction to Metals
- 48.59000 Machining Operations I
- 48.59100 Machining Operations II or
- 48.55100 Welding I or 48.58200 Sheet Metal I
- 48.55200 Welding II 48.58300 Sheet Metal II

Transport. Logistical Operations (Ground/Marine) Pathway

- 47.57100 Foundations of Transportation & Logistics
- 47.57600 Electrical/Electronic Systems & Design
- 47.57910 Heating, Ventilation & Air Conditioning Concepts

Transport. Logistical Support (Ground/Marine) Pathway

- 47.57100 Foundations of Transportation & Logistics
- 47.57600 Electrical/Electronic Systems & Design
- 47.57700 Chassis System and Design



Helping Students Graduate Business & Computer Science

The **Business and Computer Science** Program Concentration involves the planning, organizing, directing and evaluating business functions essential to efficient and productive business operations available in every sector of the economy.

Administrative/ Information Support Pathway

- 07.44110 Computer Applications 1
- 07.44120 Computer Applications 2
- 07.48310 Business Communication and Presentation

Computing Pathway

- 11.41300 Computing in the Modern World
- 11.41800 Beginning Programming
- 11.42100 Intermediate Programming

Computer Networking Pathway

- 11.41400 Information Technology Essentials
- 11.42000 Information Technology Support
- 11.42200 Networking Systems

Computer Systems & Support Pathway

- 11.41300 Computing in the Modern World
- 11.41400 Information Technology Essentials
- 11.42000 Information Technology Support

Financial Management-Accounting Pathway

- 06.41600 Business Essentials
- 07.41100 Principles of Accounting I
- 07.41200 Principles of Accounting II

Financial Management-Services Pathway

- 06.41600 Business Essentials
- 07.42110 Banking and Investing
- 07.42300 Insurance and Risk Management

Interactive Media Pathway

- 11.41300 Computing in the Modern World
- 11.43100 Fundamentals of Web Design
- 11.43200 Advanced Web Design

Small Business Development Pathway

- 06.41600 Business Essentials
- 06.41500 Legal Environment of Business
- 06.41700 Entrepreneurial Ventures

CTAE Related Advanced Courses

- AP Computer Science A
- IB Business and Management

GAcollege411

Expand Your Opportunities



Helping Students Graduate Culinary Arts

The **Culinary Arts**
Program Concentration
involves the design, creation, and
serving of food, and for students
interested in the “art” of cooking and
continuing in the Culinary Arts field
with many diverse opportunities:
Sous Chef, Pastry Chef, Garde Manger,
Banquet Chef, or a Restaurant
Entrepreneur.

Culinary Arts Pathway

20.53100 Introduction to Culinary Arts

20.53210 Culinary Arts I

20.53310 Culinary Arts II

Nondiscrimination Statement

Federal law prohibits discrimination on the basis of race, color, national origin, gender, or disability, in educational programs or activities receiving federal financial assistance. Employees, students, and the general public are hereby notified that the Georgia Department of Education does not discriminate in any educational programs or activities or in employment policies. Inquiries regarding the application of these practices may be addressed to the Georgia Department of Education, Twin Towers East, Atlanta, Georgia 30334, (404) 656-2800.

GAcollege411

Expand Your Opportunities



Helping Students Graduate Education

The **Education**

Program Concentration

involves the planning, managing and providing of education and training services, and related learning support services. This program is designed for students to pursue a career in the Education field with career opportunities including school administrator, counselor, P-12 teacher, and paraprofessional.

Early Childhood Education Pathway

- 20.52510 Introduction to Early Childhood Care and Education
- 20.42320 Human Growth & Development for Early Childhood
- 20.52610 Health, Safety & Nutrition for the Young Child
- 20.52710 Early Childhood Education Internship

Teaching As A Profession Pathway

- 13.01100 Examining the Teaching Profession
- 13.01200 Contemporary Issues in Education
- 13.52100 Teaching as a Profession Internship

GAcollge411

Expand Your Opportunities



Helping Students Graduate Engineering & Technology

The **Engineering & Technology** Program Concentration involves the planning, managing, and providing of scientific research and professional and technical services (e.g., physical science, social science, and engineering) including laboratory and testing services, and research and development services.

Electronics Pathway

- 21.45200 Foundations of Electronics
- 21.45300 Advanced AC and DC Circuits
- 21.45400 Digital Electronics
- 21.47800 Electronics Internship

Energy Systems Pathway

- 21.42500 Foundations of Engineering and Technology
- 21.45100 Energy and Power Technology
- 21.45700 Appropriate and Alternative Energy Technologies
- 21.44800 Energy Systems Internship

Engineering Pathway

- 21.42500 Foundations of Engineering and Technology
- 21.47100 Engineering Concepts
- 21.47200 Engineering Applications
- 21.46800 Engineering Internship

Engineering Graphics & Design Pathway

- 48.54100 Intro to Engineering Drawing & Design
- 48.54200 Survey of Engineering Graphics
- 48.54300 3D Modeling and Analysis

Manufacturing Pathway

- 21.44100 Foundations of Manufacturing and Materials Science
- 21.44500 Robotics and Automated Systems
- 21.44400 Production Enterprises
- 21.45800 Manufacturing Internship

GACollege411

Expand Your Opportunities



Helping Students Graduate Family & Consumer Sciences

The **Family & Consumer Sciences** Program Concentration

involves providing and assisting individuals, families, and communities in making informed decisions about their well being, relationships and resources to achieve optimal quality of life for consumerism and good nutrition. Interior Design courses prepare students to work with furnishings, textiles, and related items found on the job.

Consumer Services Pathway

- 20.45100 Consumer Awareness
- 20.45200 Consumer Skills
- 20.43000 Consumer Finance

Interior Design Pathway

- 20.44100 Foundations of Interior Design
- 20.44200 Interior Design Furnishings, Materials & Components
- 20.44700 Textile Science
- 20.44800 Interior Design Internship

Nutrition & Food Science Pathway

- 20.41610 Food, Nutrition & Wellness
- 20.41710 Food & Nutrition Through the Lifespan
- 20.41810 Food Science

GAcollege411

Expand Your Opportunities



Helping Students Graduate Government & Public Safety

The **Government & Public Safety** Program Concentration

involves the execution of governmental functions and the planning, managing and providing of legal, investigation, forensics, public safety, protective services and homeland security, including professional and technical support services and JROTC.

Homeland Security & Emergency Services Pathway

- 43.43600 Homeland Security
- 43.43700 Emergency Services
- 43.43800 First Responder & Emergency Leadership
- 43.43900 Homeland Security & Emergency Services Internship

Law & Justice Pathway

- 43.43000 Introduction to Law & Justice
- 43.43500 Law, Community Response & Policing
- 43.43300 Criminal Investigation & Forensics
- 43.43400 Law & Justice Internship

JROTC – Air Force

Reference the high school/district four year curriculum plan as published in the course catalog for course specifics.

- 28.01100 Aerospace Science: A Journey Into Aviation History and Leadership I
- 28.01200 Aerospace Science: Science of Flight & Leadership II
- 28.01300 Aerospace Science: Global and Cultural Studies I

JROTC – Army

Reference the high school/district four year curriculum plan as published in the course catalog for course specifics.

- 28.03100 JROTC Army Leadership Education I
- 28.03200 JROTC Army Leadership Education 2
- 28.03300 JROTC Army Leadership Education 3

JROTC – Marines

Reference the high school/district four year curriculum plan as published in the course catalog for course specifics.

- 28.04100 MCJROTC Leadership Education I
- 28.04200 MCJROTC Leadership Education II
- 28.04300 MCJROTC Leadership Education III

JROTC – Navy

Reference the high school/district four year curriculum plan as published in the course catalog for course specifics.

- 28.02100 Naval Science I Cadet Field Manual
- 28.02200 Naval Science I Introduction to NJROTC
- 28.02300 Naval Science II Maritime History

GACollege411

Expand Your Opportunities



Helping Students Graduate Healthcare Science

The **Healthcare Science** Program Concentration involves the planning, managing, and providing of services that promote health, wellness and diagnosis as well as treating injuries and diseases. Careers in biotechnology research, medical terminology, cosmetology and skin care, and therapeutic services are introduced.

Biotechnology Research & Development Pathway

- 25.52100 Introduction to Healthcare Science
- 25.56800 Introduction to Biotechnology
- 25.56900 Applications of Biotechnology
- 25.57500 Biotechnology Internship/Independent Research

Diagnostic Services Pathway

- 25.52100 Introduction to Healthcare Science
- 25.56500 Basic Diagnostic Services
- 25.56600 Clinical Laboratory Technician
- 25.56700 Clinical Laboratory Technician Internship

Health Informatics Pathway

- 25.52100 Introduction to Healthcare Science
- 25.59100 Medical Terminology in Healthcare Systems
- 25.59200 Applications of Health Informatics
- 25.59400 Health Information Technology Internship

Personal Care Services – Cosmetology Pathway

- 12.54500 Cosmetology Services Core I
- 12.54600 Cosmetology Services Core II
- 12.54800 Cosmetology Services Core III

Physical Medicine Pathway

- 25.52100 Introduction to Healthcare Science
- 25.58000 Principles of Physical Medicine
- 25.58100 Concepts of Physical Medicine
- 25.58200 Rehabilitation in Physical Medicine

Therapeutic Services-Emergency Services Pathway

- 25.52100 Introduction to Healthcare Science
- 25.56400 Emergency and Disaster Preparedness
- 25.56200 Concepts of Emergency Medicine
- 25.52700 Emergency Medicine Internship

Therapeutic Services-Medical Services Pathway

- 25.52100 Introduction to Healthcare Science
- 25.52200 Application of Therapeutic Services
- 25.52500 General Medicine
- 25.52600 Medical Services Internship

Therapeutic Services-Nursing Pathway

- 25.52100 Introduction to Healthcare Science
- 25.52200 Application of Therapeutic Services
- 25.56100 Nursing Essentials
- 25.56300 Nursing Internship

GACollege411

Expand Your Opportunities



Helping Students Graduate Arts & Humanities

The **Arts & Humanities**
Program Concentration
involves the design, production,
exhibition, performing, writing, and
publishing of multimedia content
including visual and performing arts
and design, journalism and
entertainment services.

Modern Languages Pathway

(Contact your school counselor for languages offered)

Germanic, Slavic and Classical Languages (*German, Greek, Latin, Russian*)

Romance Languages (*French, Italian, Portuguese, Spanish*)

Asian Languages (*Mandarin Chinese, Japanese, Korean, Turkish, Hindi, Urdu*)

African and Semitic Languages (*Arabic, Hebrew, Swahili, Farsi*)

American Sign Language

Journalism Pathway

23.03200 Journalism I

23.03300 Journalism II

23.03500 Journalism III

23.03600 Journalism IV

Performing Arts Pathway

(Contact your school counselor for performing arts offered)

Dance (*Ballet, Jazz, Modern, General, Specialized*)

Dramatic Arts (*Fundamentals, Musical Theater, Technical Theater, Advanced Drama, Acting, Video & Television, History & Literature, Specialized Theatre*)

Music (*General, Band, Orchestra, Ethnic and Folk, Chamber Ensembles, Guitar Studies, Keyboard Studies*)

Chorus (*Mixed, Women's, Men's*)

Visual Arts Pathway

(Contact your school counselor for visual arts offered)

Visual Arts (*Comprehensive, Drawing and Painting, Fine and Folk Crafts, Printmaking, Sculpture, Media Arts, Advanced Placement Studio, Art History and Criticism*)

GAcollege411

Expand Your Opportunities



Helping Students Graduate Marketing, Sales & Services

The **Marketing, Sales & Services**

Program Concentration

involves the planning, managing, and performing of marketing activities to reach organizational objectives.

Students interested in learning about opening your own business (entrepreneurship) will want to choose one of these career pathways.

Fashion Marketing Pathway

- 08.47400 Marketing Principles
- 08.41300 Introduction to Fashion Marketing
- 08.41400 Advanced Fashion Marketing

Marketing & Management Pathway

- 08.47400 Marketing Principles
- 08.43600 Entrepreneurship: Building a Business
- 08.47500 Advanced Marketing

Marketing Communications & Promotion Pathway

- 08.47400 Marketing Principles
- 08.47200 Professional Sales and Promotion
- 08.47900 E-Marketing

Sports & Entertainment Marketing Pathway

- 08.47400 Marketing Principles
- 08.47800 Introduction to Sports & Entertainment Marketing
- 08.48500 Advanced Sports & Entertainment Marketing

Travel Marketing & Lodging Management Pathway

- 08.47400 Marketing Principles
- 08.43000 Discovering Hospitality & Tourism Marketing
- 08.43700 Hospitality & Tourism Management

GACollege411

Expand Your Opportunities



How Can You Help Students at BRIDGE

- **Discover their Career Interests?**
- **Discover their Academic & Personal Strengths?**
- **Discover their Work Preferences?**
- **Discover their Career Pathway?**
- **Create a Plan/Program of Study?**
- **Complete Graduation Requirements?**
- **Discover their Postsecondary Opportunities?**
- **Discover their Postsecondary Educational Funding Sources?**

Georgia Graduation Rule

Current GEORGIA Graduation Rule for students entering the 9th grade in fall of 2008-09 and beyond Areas of Study:	Credits
English / Language Arts	4
Math	4
* Science	4
Social Studies	3
**Career, Technical and Agricultural Education (CTAE), and/or Modern Language/Latin, and/or Fine Arts	3
Health & Physical Education	1
Electives (4 units)	4
TOTAL UNITS	23

* 4th Science may be used to meet both the required science and required elective in CTAE sequence of courses.

** Student must complete 3 units in a pathway and take a related national credentialing assessment. Student must complete 2 years of the same Modern Language /Latin for admission to Georgia Board of Regents colleges/universities.



GACollege411

Expand Your Opportunities



Helping Students Graduate Teachers-As-Advisors (TAA)

A Student Advisement System

GaDOE Strategic Goal 1: Increase high school graduation rate, decrease the drop-out rate and increase postsecondary enrollment rate.

Strategy: Develop an improved comprehensive system of student advisement focusing on postsecondary options and careers.

Initiative: GAcollege411.org

Help your students:

- Discover their interests and values.
- Select a Peach State Pathway.
- Create a plan of study.

For TAA information, tools and materials go to:

- www.GeorgiaStandards.org
 - Click on Resources & Videos
 - Click on Resources
 - Click on Teachers-As-Advisors

These tools and materials were developed to assist local systems with the creation, implementation and evaluation of an effective TAA program:

- Content Framework-based on the National Career Development Guidelines
- Video Training Modules on Georgia's 10-Step Model
- Activity Lesson Plan Template
- Introductory PowerPoint Presentation

Teachers-As-Advisors 10-Step Model:

1. Establish Need and Rationale
2. Implement Education and Career Planning
3. Create a Statement of Purpose
4. Establish Parent/Family Involvement Plan
5. Determine Organization and Logistics
6. Create Content
7. Utilize Assessments
8. Establish Professional Learning and Support Plan
9. Identify Leadership Roles
10. Create Program Evaluation

GACollege411

Expand Your Opportunities



Helping Students Graduate Work-Based Learning

- Work-Based Learning includes student placement that may be paid or unpaid positions.
- Work-Based Learning provides students with opportunities for instruction in academics, occupational skills, and career exploration to identify employment and educational goals.
- Work-Based Learning students have the opportunity to connect what they learn in school with worksite application, enabling a smooth transition into the work force and/or education beyond high school.



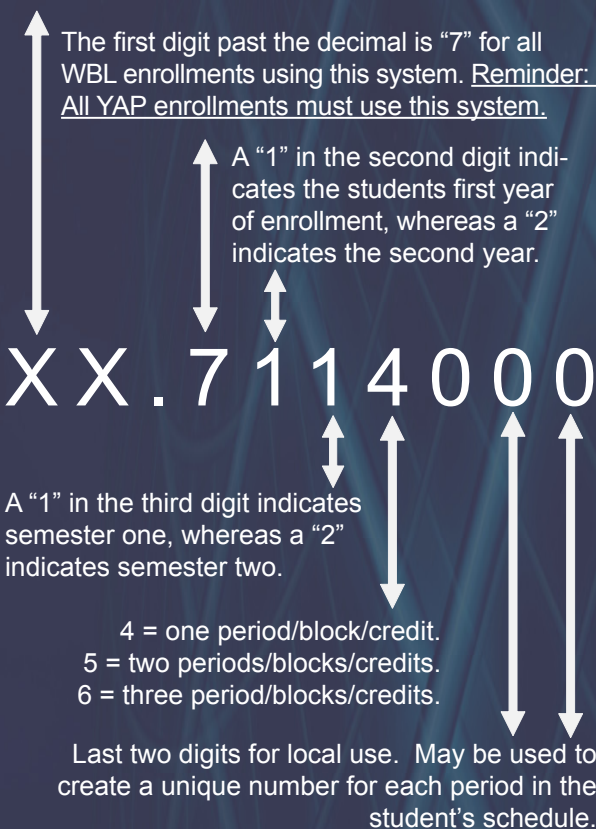
Students in Work-Based Learning are classified in one of four ways according to the alignment of their career-tech coursework with job placement and future postsecondary/career plans:

- Youth Apprenticeship (YAP)
- Internship
- Cooperative Education (Co-op)
- Employability Skills Development (ESD)

Student placement is dependent on defined criteria for each placement type including the paid or unpaid status.

Please contact your local CTAE Supervisor or Director for state-approved WBL course numbers.

Insert the CIP code for the concentration/pathway that the WBL placement is related to.



GACollege411

Expand Your Opportunities



Helping Students Graduate Career, Technical Student Organizations

- All Georgia Career and Technical Student Organizations are Intra-Curricular, meaning the activities are linked to what is learned in the classroom.
- There are 8 CTSOs with more than 140,000 members in Georgia
- Seven of the eight CTSOs have a national level for students to compete against the nation and in some CTSOs compete against other countries.
- CTSOs promote leadership skills, community service learning, and skill development through competitive events.

Every year Georgia CTSO sends numerous state winners to national student leadership conferences to compete. Their participation illustrates that Georgia students are on top for workplace development nationwide. The skills that are learned in their curriculum are helping students to compete and lead in each of the national CTSO leadership conferences.

Every year, between all of the CTSOs, Georgia averages at least 27 national winners at each leadership conference.

CTSOs have constantly grown in chapters and student memberships over the past 10 years. Every year more students are given the opportunity to be successful in leadership, community service, and competitions.



DECA –ranked 6th in the nation with more than 10,000 membership.



FBLA – ranked 1st in the nation with more than 25,000 membership.



FCCLA – ranked 1st in the nation with more than 29,000 membership.



FFA – ranked 3rd in the nation with more than 29,000 membership.



HOSA – ranked 5th in the nation with more than 8,000 membership.



SkillsUSA – ranked 14th in nation with more than 8,000 membership.



TSA – ranked 1st in the nation with more than 28,000 membership.



CTI – A Georgia CTSO for special pops with 6,930 members.

GAcollege411

Expand Your Opportunities



Helping Students Graduate with National Industry Credentials

Students who complete the three designated courses in a Career, Technical and Agricultural Education (CTAE) Pathway will have a chance to earn a national credential through their participation in End-of-Pathway Assessment Activities. National credentialing opportunities provide students with:

- A professional credential that is highly valued by business and industry;
- A portable credential which highlights the skills, knowledge and expertise acquired by the student;
- A competitive edge for entry-level job seekers

Listed below are some of the national credentialing opportunities available for students to earn:

Agriculture

- Forestry Products & Processing
- Agriculture Mechanics

Architecture, Construction, Communications & Transportation

- PrintED Certification
- Architectural Drafting Skills Connect Certification
- NCCER Sheet Metal Certification
- NASA3 Collision Repair

Business & Computer Science

- Certified Microsoft Office Specialist (MOS)
- IC3 Certification
- A+ Certification

Engineering & Technology

- Certified Mechanical Drafter
- Computer Aided Design (CAD) Operator

Family & Consumer Sciences; Culinary; Education

- Certified Junior Culinarian
- Entry Level Childcare Training Endorsement
- Financial Literacy

Healthcare Science; Government & Public Safety; Personal Care Services

- Certified Nursing Assistant
- Certified Patient Care Technician
- First Responder
- Licensed Cosmetologist

Marketing, Sales & Services

- A*S*K Fundamental Marketing Concepts Certification
- Marketing Education Management Trainee

GAcollege411

Expand Your Opportunities