

# Understanding Career Pathways

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## **Session Overview**



- What is a Career Pathway?
- Career Clusters & Pathways Plan of Study
- Career Clusters & Pathways Courses
- Career Technical Student Organizations (CTSOs)
- CCRPI
- Work Based Learning
- Career-Related Capstone Project
- Career Cluster Resources

# What is a Career Pathway?



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- Georgia has 139 pathways representing the 17 occupational clusters.
- This range of pathways provides opportunities to instruct and guide all students regardless of their career goals and interests.



# Pathways Programs of Study



- Students are encouraged to develop career cluster pathways programs of study.
- Programs of study prepare students for postsecondary education and career success through the:
  - Development of 21st century skills,
  - Integration of academic and CTE competencies,
  - Creation of post-secondary credit-bearing articulation agreements
  - Opportunity to work toward industry-recognized credentials and/or certificates.

# How to use the Plans of Study Richard Woods (\*Educating Georgia's Future gadoe.org

- A delivery document, when coupled with career-related information and activities, for educational and careerrelated advisement in a 6-12 teacher-as-advisor (TAA) program
- A visual and conversational tool between counselors and/or advisors, parents and students
- A transitional tool for students and their families moving from middle to high school
- A section of local school course catalogs, local school web sites, student career-planning booklets

# Additional Ways to Use the Plans of Study



- An informational bulletin board that includes additional pathway information at the middle and high school
- An instructional tool in related coursework
- A career guidance/advisement tool for professional school counselors during on-going individual career counseling or group guidance

A "Take One" item in a career or counseling center

#### Sample Pathway Plan of Study Richard Woods.

#### Student Plan of Study - Therapeutic Services - Emergency Medical Responder

Name	Date	School	
Parent/Guardian Signature		Date	Advisor/Counselor Signature
340000000000000000000000000000000000000	Date		
	Market State State State		



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Current Area of Interest: Health Science/Therapeutic Services - Emergency Medical Responder - This PLAN OF STUDY should serve as a guide for the next four years. Courses listed in this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. All plans will meet minimum high school graduation requirements. Applicants to the University System of Georgia and the ry institutions may set additional requirements.

Other Social Studies

Current Issues or AP/IB

Soc Studies or Psychology

or Sociology or Humanities

Courses

pathway

Other CTAE courses

are available to

complete a related

**Elective Courses:** 

	Grade	I. English/Language Arts Total 4 credits	II. Math Total 4 credits	III. Science Total 4 credits	IV. Social Studies Total 3 credits	V. Health/Personal Fitness Total 1 credit
	9	9th Literature & Composition	1 CCGPS Cord Algebra	Biology or Approved	American	Health
l		or Approved Dual Enrollment	2 CCGPS Analytic Geom	Dual Enrollment	Government/Civics or AP	½ credit
		Course	3 CCGPS Accel Cord	Course	Government/ Politics US or	Credit Eamed
			Alg/Analytic Geom		Approved Dual Enrollment	Personal Fitness
			4 CCGPS Accel Analytic		Course	½ credit
			Geom B/Adv Alg			0.000.2000 <u>C</u>
		1 credit	1 credit *	1 credit *	½ credit	***VI. CTAE Pathway
						Total 3 credits
		Credit Earned	Credit Earned 🗖	Credit Earned	Credit Earned 🗖	
	10	10th Literature & Composition	1 CCGPS Analytic	Physical Science or	World History or AP World	25.52100 Intro to
		or World Literature &	Geometry	Physics or AP Physics	History or	Healthcare Science or
		Composition or Approved Dual	2 CCGPS Adv Algebra	or Approved Dual	Approved Dual Enrollmer	Approved Dual
		Enrollment Course	3 CCGPS Accel Analytic	Enrollment Course	Course	Enrollment Course
			Geometry/Adv. Algebra			
		variables.	4 CCGPS Pre-Calculus			
		1 credit	1 credit *	1 credit *	1 credit	1 credit
		Credit Earned □	Credit Earned 🗖	Credit Earned 🗖	Credit Earned □	Credit Eamed □
	11	American Literature/	1 CCGPS Adv. Algebra	Chemistry or	United States History or	25.44000 Essentials of
		Composition or AP English	2 CCGPS Pre-Calculus	Environmental Science	AP US History or IB	Healthcare or Approved
		Language &	3 CCGPS Accel Pre-Cal	or Earth Systems or	History of the Americas o	Dual Enrollment Course
		Composition/American Lit or	4 CCGPS Cal or AP Cal	AP/IB or Approved	Approved Dual Enrollmen	
		Approved Dual Enrollment		Dual Enrollment	Course	
		Course	i	Course	W	4
		1 credit	1 credit *	1 credit *	1 credit	1 credit
		Credit Earned	Credit Earned 🗖	Credit Earned	Credit Earned 🗖	Credit Eamed □
		At the end of the 11th grade, Georg	cal College System of			
	12	Advanced Composition or	CCGPS Pre-Cal or	Any other previous	Econ/Business/Free	25.45000 Emergency
		British Literature or AP/IB	Calculus or AP Calculus or	courses or Hum Anat &	Enterprise or AP Macro	Medical Responder or
		English Literature &	AP Stats or IB Math or	Phys or Epidemiology	Econ or AP Micro Econ o	Approved Dual
		Composition or Approved Dual	Approved Dual Enrollment	or Approved Dual	IB Econ or Approved Dua	Enrollment Course
		Enrollment Course	Course	Enrollment Course	Enrollment Course	
		1 credit	1 credit *	1 credit *	½ credit	1 credit
		Credit Earned	Credit Earned □	Credit Earned	Credit Earned □	Credit Eamed 🗖
			10000 20 10 120 10			

Other Science

Biochemistry or

Science or

**Elective Courses:** 

Microbiology or AP/IB

Organic Chemistry or

Scientific Res III or IV

Other English Elective

Literary Types/Composition

Oral/Written Communication

Courses:

Journalism

Speech

Other Math Elective

Math of Ind & Govern

Math of Finance

Adv Math Decision Making

Courses:

#### VII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives) **Total 4 credits**

#### **Advanced Academic Pathways** English/Language Arts, Math, Science, Social Studies

An advanced academic pathway may be followed in any one of the content subjects listed above. Upon graduation, students earn an advanced academic pathway when they complete the required coursework to include at least one AP or one IB or one Dual Enrollment course. An advanced academic pathway

should also include at least two credits in one world language. AP, Dual Enrollment and Georgia Virtual School courses may be available.

#### World Language Pathways

\*\*Two credits are required for admissions to University System Institutions. For a listing of world language courses offered at your high school, please check with your advisor, counselor, or local course description catalog. A world anguage pathway may be followed in any of the world language areas included in the state list of approved courses. Upon graduation, students earn a world anguage pathway when they complete three credits in one language. The third

course may reflect an AP, IB or Dual Enrollment designation. Georgia Virtual School and ACCEL courses may be available.

#### Fine Arts/Performing Arts Pathways Visual Arts, Dance, Music, Journalism, Theatre

A fine arts pathway may be followed in any one of the five areas listed above. Upon graduation, students complete a fine arts/performing arts pathway when three courses have been successfully completed in any one of the five areas. A student should consult a counselor or advisor for related coursework. AP. Dual Enrollment and Georgia Virtual School courses may be available.

#### \_egend:

Science: Approved 4th Sciences may be used to meet both the required science and required elective in a Career, Technical and Agricultural Education CTAE) sequence of courses; see Fourth Science Requirements for more nformation. Student may take science courses in any sequence. Math: Select Math sequence 1, 2, 3, 4, based on 9th grade entry course. \*Students must complete two credits of the same world language for admission to University System of Georgia institutions. \*\* Students should complete a CTAE pathway and take the related end of athway assessment.

NOTE: Local systems may offer core courses in a different sequence; not all local systems offer every pathway. Students should explore all credit possibilities including Georgia's Virtual School Program, Dual Enrollment, Advanced Placement (AP), International Baccalaureate (IB) and Work-Based Learning (WBL) to reach their educational and career goals.

- Core Classes Offerings
- Additional **Pathways**
- Required Classes to Complete **Pathway** 
  - Legend

# Sample Pathway Plan of Study

#### SAMPLE Pathway OCCUPATIONS

See \*Georgia's HOT Careers to 2020 for more information on high-skilled,

high-wage and high-demand occupations.

mgm rade and mgm assurance					
Occupation Specialties	Entry Level of Education Needed	2012 Annual Wage	Annual Openings 2012-2020		
Ambulance Drivers & Attendants	High School	\$22,800	20		
Police, Fire, & Ambulance Dispatchers	High School	\$28,800	140		
Emergency Medical Technicians & Paramedics	Associate's Degree	\$29,500	190		

Source: Georgia Department of Labor/ONET

For more information about your education and career planning, including valuable financial aid information that includes grants and scholarships, see your school counselor.

	****Current Georgia Graduation Rule				
Coursework Credits		Credits	Coursework	Credits	
ı.	English/Language Arts	4	V. Health & Physical Education	1	
II.	Math	4	VI. **Career, Technical & Agricultural Education		
III.	*Science	4	and/or ***World Languages, and/or Fine Arts	3	
IV.	Social Studies	3	VII. Electives	4	
			TOTAL	23	

- \*Selected 4<sup>th</sup> <u>Science</u> courses may be used to meet both the required science and required elective in a CTAE sequence of courses.
- \*\*Students must complete three credits to complete a CTAE pathway and take the end of pathway assessment.
- \*\*\*Students must complete two credits of the same world language for admission to Georgia Board of Regents colleges/universities.
- \*\*\*\* Current graduation requirements should be met in all content areas.
- NOTE: This plan represents minimum graduation requirements. Local systems may require additional coursework.

#### Postsecondary Transition:

- Students who will continue their education in a Program of Study at one of the University System of Georgia
  institutions should prepare to take the ACT or SAT for admissions. Tests for admissions may vary from institution to
  institution. Contact the selected institution for specific testing information. Additional admissions information can be
  found at Staying On Course. (www.usg.edu/student\_affairs/documents/Staying\_on\_Course.pdf)
- Students who will continue their education in a Program of Study at one of the Technical College System of Georgia
  institutions should prepare to take the COMPASS test for admissions.
- Students who will continue their education and training in the US Military should take the ASVAB assessment.
- Students should utilize electronic college and career databases to select the most appropriate postsecondary
  opportunities to match their selected career field, including registered apprenticeships.
- Students can earn both high school and postsecondary credit while in high school. Georgia has multiple dual
  enrollment programs, including ACCEL, Dual Hope, Move On When Ready and Articulation.
- Georgia's dual-credit programs have been combined into one program entitled Move on When Ready, in which high school students may earn their high school course credits while taking college courses.

#### Possible Student Pathway Credentialing Opportunities:

Students completing a pathway are eligible to take a Credentialing/End of Pathway Assessment (EOPA) upon successful completion of the three required courses in the pathway. For specific assessment information, refer to <a href="http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx">http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx</a>.

#### \*Related Pathway Occupations:

Emergency Medical Technicians & Paramedics Police, Fire, & Ambulance

Dispatchers
Medical Equipment Preparers
Ambulance Drivers & Attendants,
except EMTs

Other Related Health Science Occupations:

Registered Nurses Radiologic Techs Respiratory Therapists

ers Medical & Health Services ndants, Managers

\*ONET Online

#### Therapeutic Services - Emergency Medical Responder

Occupations in the Health Sciences represent the largest and fastest growing industry in the United States, employing over 10 million workers in more than 200 careers.

The primary focus of the Emergency Medical Responder is to initiate lifesaving care to critical patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional Emergency Medical Services (EMS) response and to assist higher level personnel at the scene and during transport. Emergency Medical Responders function as part of a comprehensive EMS response, under medical oversight. Emergency Medical Responders perform basic interventions with minimal equipment.

Emergency Medical Responders include Emergency Medical Technicians (EMTs) and paramedics that care for the sick or injured in emergency medical settings. EMTs and paramedics respond to emergency calls, perform medical services and transport patients to medical facilities. Work is performed both indoors and outdoors and in all types of weather. The work is physically strenuous and can be stressful, sometimes involving life-or-death situations and patients who are suffering.

All EMTs and paramedics must complete a formal training program. All states require EMTs and paramedics to be licensed, but requirements vary by state. Employment of EMTs and paramedics is expected to grow by 33 percent from 2010 to 2020, much faster than the average for all occupations.

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- Sample Pathway Occupations
- Graduation
   Requirements
- Postsecondary Transition
- Pathway Synopsis

# The Pathways



#### Things to Make You Go Hmmm...

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- Which pathways does your school offer?
- Do you survey the students to find out their interest levels in the pathways in an effort to offer more?
- How do you promote your pathway offerings to your students? Middle School?
- What's your relationship like with the pathway teachers?
- Do you take into consideration non-traditional students when advising students on which pathway to consider?
- Is there an advisory committee for the pathways your school offers? If so, are you part of the advisory committee?
- Order does matter!! Students should take the courses in the prescribed order.

- •Agriculture, Food, and Natural Resources (34)
- Architecture and Construction (11)
- Arts, AV/Technology, and Communications (4)
- •Business, Management, and Administration (3)
- Education and Training (3)
- •Energy (2)
- •Finance (3)
- •Government and Public Administration (5)
- •Health Science (18)
- •Hospitality and Tourism (3)
- •Human Services (7)
- •<u>Information Technology</u> 8)
- •Law, Public Safety, Corrections, and Security (10)
- •Manufacturing (3)
- •Marketing (3)
- •Science, Technology, Engineering, and

Mathematics (3)

•Transportation, Distribution, and Logistics (9)

# **Other Pathways**



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- Academic Pathways: A student may complete an Advanced Academic gadoe.org pathway when three courses from English language arts, mathematics, science, or social studies have been successfully completed and additional criteria met.
  - Earn four units of credit in a core academic area (3 in Soc. Studies); and
  - Core academic pathway should include at least one Advanced Placement course, or one International Baccalaureate course, or one postsecondary enrollment course that fulfills a core graduation requirement in core academic area; and
  - Complete two units of sequential course credit in one world language.
- Fine Arts Pathways: A student can complete a Fine Arts Pathway when three courses have been completed in any one of these five areas:
  - Dance
  - Journalism
  - Theater
  - Music
  - Visual Arts

• World Languages Pathways: A student can complete a World Language Pathway when three courses have been completed in the same language OR two in the same language plus an AP, IB or post secondary course in the same World Language.

# Career, Technical Student Organizations



- Students can expand 21st century skills within a Career and Technical Student Organization.
- CTSO involvement is encouraged due to the activities, leadership, competitions and authentic experiences available for skill application within the classroom and community.

• FBLA HOSA

• DECA FFA

Future Educators Association Skills

• FCCLA TSA

How can you get involved with your CTSOs?

# Career Pathways & CCRPI



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#### POST HIGH SCHOOL READINESS

Percent of graduates completing a CTAE pathway, or an advanced academic pathway, or a fine arts pathway, or a world language pathway within their program of study

Percent of graduates completing a CTAE pathway and earning a national industry recognized credential (passing an end of pathway assessment) or an IB Career-Related Certificate

- 11. Percent of graduates entering TCSG/USG not requiring remediation or learning support courses; or scoring program ready on the Compass; or scoring at least 22 out of 36 on the composite ACT; or scoring at least 1550 out of 2400 on the combined SAT; or scoring 3 or higher on two or more AP exams; or scoring 4 or higher on two or more IB exams
- 12. Percent of graduates earning high school credit(s) for accelerated enrollment via ACCEL, Dual HOPE Grant, Move On When Ready, Early College, Gateway to College, Advanced Placement courses, or International Baccalaureate courses
- 13. Percent of students scoring at Meets or Exceeds on the Georgia High School Writing Test
- 14. Percent of students achieving a Lexile measure greater than or equal to 1275 on the Georgia Milestones American Literature
- 15. Percent of students scoring at the highest performance level on all Georgia Milestones
- 16. Percent of students missing fewer than 6 days of school

#### **GRADUATION RATE**

- 17. 4-Year Cohort Graduation Rate (%)
- 18. 5-Year Extended Cohort Graduation Rate (%)



# Work Based Learning & Career-Related Capstone Project

Percent of graduates completing a career-related Work-Based Learning Program OR a career-related Capstone Project (includes IB projects)

Moves to the forefront of CCRPI in 2016-2017

# Work Based Learning:

An opportunity for students to develop and apply skills learned in the related CTAE course content.



### SCHOOL COUNSELOR'S ROLE

- Assist with the recruitment of students for Work-Based Learning programs.
- Advise Career-Related Education instructors and Work-Based Learning Coordinators about prospective students who could benefit from participation in their programs.
- Assist in scheduling.
- Provide career and educational planning assistance to students.
- Provide transcripts, attendance records, and discipline records for initial screening

- Public Relations
- Individual Graduation Plans
- Student Admission-Application
- WBL Placements
- Course Credit & Student Records





- Research Paper
- Mentor
- Portfolio
- Student Presentation
- Link to guidance on this project:
   http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Documents/Capstone%20Project%20
   Guidance.pdf

#### RESEARCH PAPER

- The project proposal would be approved prior to beginning this research.
- The length of the paper is determined by the local schools, with the understanding that certain information must be evident in the paper.
- Information includes, but is not limited to:
  - reasons for selecting the occupation in the specific career cluster/pathway,
  - career goals
  - relevant career-related information that provides the reader some information about a specific occupation or current topics related to that occupation
  - research on job outlook and education and training needed
  - any current trends or changes in the future of the career field.
- Extra information the system/school may require:
  - Explore an aspect of the career in depth that may be a "hot topic" in the field, i.e. latest research on a particular medicine used in treating certain diseases, genetic research or food safety in the area of Agriculture, or natural gas pipeline safety in the area of energy

#### **MENTOR**



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- Students must obtain a mentor to assist in gadoe.org learning more about the career area. The mentor must be someone who is knowledgeable in the chosen area of interest or someone working in the field.
- The students have the responsibility to obtain a mentor and then submit a signed agreement between the school, the mentor, the student, and the parent.
- School personnel should assist with finding mentors, if necessary. Virtual mentoring is an option.
- Students should maintain a log of hours spent with the mentor and are required to spend a minimum of eight (8) hours with their mentor to complete the project.
  - Schools and systems should follow and/or develop a procedure for the selection and approval of mentors.



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#### **PORTFOLIO**

- This portfolio may be in a notebook form or kept electronically.
- There is a portfolio description and checklist. The items listed in the checklist are a minimum of what is required, but may also contain any other information or documentation relative to the career area of interest.
- The portfolio provides physical documentation of the career-related capstone project journey.

#### STUDENT PRESENTATION

- A sample rubric is available to help in assessing the presentation
- This presentation could be a formal presentation before a panel of community judges or a presentation before a group of interested students at another grade level such as middle school or elementary school students. Classroom presentations are also acceptable.
- A student may share any tangible evidence/application of the skills and knowledge acquired from the project.
- Presentations would consist of the student's purpose and reasons for choosing the career area, new information gained about the career, and plans for pursuing additional information about the education and training needed for entering the chosen career area.

## **Career Cluster Resources**



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## **Career Cluster Documents and Resources**

- Career Cluster Ring Cards and related resources
- Career Cluster Pathway Description, postsecondary, and career data cards
- Georgia Career Cluster posters letter size (with printer bleeds)
- Georgia Career Cluster posters letter size
- Move On When Ready Parent Flyer 2015-16
- Move On When Ready Counselor Card 2015-16
- Ring Card Career Cluster Pathways update
- Career Cluster Pathway Folder Cards update

- Sent to systems for distributing to schools
- Can be used for advising students and promoting pathways that you offer at your site
- Print ready for you to use for pathways your school offers

## Click on the session's topic to register.

All Levels **Elementary** Middle High 8 **27 ASCAs Mindsets and ASCAs Mindsets** Spicing Up Your **Behaviors for Your Core Best Practices for** and Behaviors for **Curriculum Lessons** College **Themed** (for new school counselors) **Your Core** Counseling Days/Weeks/Months Presentation Time: **Curriculum Lessons Initiatives** 2:00 PM (for new school counselors) **Value Added Career** Presentation Time: **Activities** Presentation Time: Presentation Time: 2:00 PM 2:00 PM 2:00 PM Presentation Time: 11:00 AM

# **OCTOBER WEBINARS**

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## **Questions & Answers**



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