

Peach State Pathways: Program of Study



Agriculture

Learner Name _____

Date _____

Learner Signature _____

Advisor/Counselor Signature _____

Parent/Guardian Signature _____

This plan of study should serve as a guide, along with other career planning materials, as you continue your education. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

All plans will meet minimum high school graduation requirements as well as minimum college entrance requirements.

Applicants to Board of Regents institutions should be advised that meeting minimum requirements will not guarantee admission at any institution. Institutions may set additional and/or higher requirements.

High School Education and Career I Graduation Rules for 9th grade enrolling 2008-	I. English Language Arts (4 units)	II. Mathematics (4 units)	III. Science (4 units)	IV. Social Studies (3 units)	V. Required Electives (3 units) CTAE and/or Modern Language/Latin and/or Fine Arts	VI. Health & Physical Edu (1 unit)	
	English 9 English 10 English 11 English 12 AP Lit and Comp AP Lang and Comp IB English SL (Am Lit) IB English HL (World Lit)	Math 1 Math 2 Math 3 Math 4 OR Accelerated Math 1 Accelerated Math 2 Accelerated Math 3	Biology Physical Science OR Physics Chemistry OR Environmental Science OR Earth Systems OR an AP/IB course	Am Gov/Civics (1/2 unit) World History US History Economics (1/2 unit)	Career Pathway Sequence of Courses: 02.47100 Basic Agricultural Science and Technology (AG – BAS) 01.42100 Agricultural Mechanics I (AG-AMI) 01.42200 Agricultural Mechanics II (AG-AMII) CAREER PATHWAY RELATED COURSES: 01.42300 Agricultural Mechanics III (AG-AMIII) 01.42600 Agricultural Electricity and Electrical Controls (AG-AME) 01.42700 Agricultural Construction (AG-AGC) 01.42400 Agricultural Metal Fabrication (AG-AGF) 01.42500 Agricultural Power and Machinery (AG-AGP)	Health & Personal Fitness	
	Sample Additional English Courses: Literary Types/Composition Oral/Written Communication	Sample Additional Math Courses: TBA	Sample Additional Science Courses: Microbiology Environmental Science AP Environmental Sci Aviation Meteorology Astrophysics	Sample Additional Social Studies Courses: Current Issues The Humanities Technology and Society Psychology Sociology	Modern Language/Latin 2 units required for admission to Georgia University System Colleges/Universities For a listing of Modern Language/Latin courses offered at your high school, please consult your advisor, counselor, or curriculum handbook.	Fine Arts Visual Arts Performing Arts For a listing of Fine Arts courses offered at your high school, please consult your advisor, counselor, or curriculum handbook.	Sample Additional Health & PE courses: Team Sports Rec Games Aerobics
						VII. Other Electives (4 units)	
					For a listing of other elective courses offered at your high school, please consult your advisor, counselor, or curriculum handbook.		

Go to GACollege411 at www.GACollege411.org for more information about your education and career planning, including valuable financial information (grants and scholarships including HOPE Program, loans, and FAFSA and CSS forms).

Current GEORGIA Graduation Rule for student entering the 9 th grade in fall of 2008-2009 Areas of Study:	Credits	Postsecondary Programs of Study Technical College	Postsecondary Programs of Study University of Georgia System
I. English/Language Arts	4	<p>Select the following link for a list of Technical College System of Georgia (TCSG) institutions offering programs in Agricultural Mechanics. Each technical college varies in the specific degrees (AAS), diplomas, and certificates offered.</p> <p>https://kms.dtae.org/portal/tcsg/TC SGProgramOfferings.aspx</p> <p>Step 1: Use the drop-down box to select the term you plan to enter a TCSG institution;</p> <p>Step 2: From the Specific Program drop-down box select Agricultural Technology, Diesel Mechanics, or Heavy Diesel Service Technician.</p> <p>You can then view a list of TCSG institutions that offer this program as well as the specific campus and awards (degree, diploma or certificate) offered.</p>	<p>The following link will list Board of Regents institutions offering degrees in Agricultural Mechanics. In the first box titled "Major," type "Agriculture Engineering," "Agriculture Science," or "Agriculture." Then click the button at the bottom "View Matching Campuses" for a list. It will not be necessary to fill in all the other boxes. Further research will be required for specific programs of study that align with the pathway.</p> <p>http://www.gacollege411.org/Select/MatchAss/default.asp</p>
II. Math	4		
III. *Science	4		
IV. Social Studies	3		
V. **Career, Technical and Agricultural Education (CTAE), and/or Modern Language/Latin, and/or Fine Arts	3		
VI. Health & Physical Education	1		
VII. Electives (4 units)	4		
TOTAL UNITS	23		
<p>* 4th Science may be used to meet both the required science and required elective in CTAE sequence of courses (V)</p> <p>**Student <u>must</u> complete 3 units in a pathway to complete CTAE pathway and take end of pathway assessment. Student <u>must</u> complete 2 years of the same Modern Language/Latin for admission to Georgia Board of Regents colleges/universities.</p>			

AGRICULTURAL MECHANICS

Because workers in the Agricultural Mechanics pathway are responsible for the efficient operation of farm machinery, opportunities in the farm equipment industry will grow as farms merge and grow larger. Agricultural and farm equipment mechanics are responsible for the maintenance, repair, and installation of machines that increase the efficiency of farming activities, such as planting, harvesting, and irrigating crops. Agricultural mechanics also service and repair smaller lawn and garden equipment operated by suburban homeowners.

Important skills for this pathway include the ability to maintain and repair farm machines, such as large tractors or combines. Dairy equipment repairers maintain and repair milking machines and other equipment used by dairy farmers. Modern farm equipment utilizes computers, electronics, and hydraulics, which means that workers need to continually update their skills. In fact, what was once a general repairer's job has become a more specialized technical field in the farm industry. As a result, many farmers rely on farm equipment dealers to maintain and repair their machinery because the equipment is more complex than in the past. Another occupation in this pathway is agricultural engineer—someone who designs equipment and technology to meet farmer needs.

Some agricultural mechanics receive formal training in professional/technical schools and two-year colleges, where they learn the basics of diesel engines, transmissions, and hydraulics. Other mechanics learn their skills on the job, receiving training from more experienced mechanics and from training sessions conducted by heavy equipment manufacturers. Competition for workers is keen because of the scarcity of qualified people to fill agricultural mechanic positions.

For more information, visit the following websites:
AED Foundation (Associated Equipment Dealers affiliate)

Career Enhancement Opportunities	Career-Related Education Activities	Postsecondary Options:	Possible postsec
	<input type="checkbox"/> Career Awareness <input type="checkbox"/> Career Exploration <input type="checkbox"/> Instructional Related <input type="checkbox"/> Connecting <input type="checkbox"/> Work-Based Learning <ul style="list-style-type: none"> Employability Skill Dev. Cooperative Education Internship Youth Apprenticeship Clinicals 	<ul style="list-style-type: none"> 4-Year Universities/Colleges 2-Year Colleges Technical Colleges State Registered Apprenticeships Special Purpose Schools On-the-Job Training Military 	<ul style="list-style-type: none"> *Advance *Articulate *Dual Enr *Dual Enr Joint Enr <p>*Postsecondary credit op simultaneously while in h program manager for mo serves both middle and h</p>

The sample AGRICULTURAL MECHANICS PATHWAY occupations listed below meet two out of three of GDOE definitions for high-demand, high-wage and high-skilled. www.occsupplydemand.org

Level of	Average	Annual Average Openings in
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Occupation Specialties	Education Needed	Salary	Georgia
Agricultural Engineer	Bachelor Degree	\$57,762	0
Farm Equipment Mechanic	Postsecondary Vocational Award	\$30,618	20
Industrial Machinery Mechanic	Long-Term On-the-Job Training	\$38,522	290
Industrial Truck & Tractor Operator	Short-Term On-the-Job Training	\$26,894	1,030

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