

Specialized Work Ready Program of Choice

Student Plan of Study-Ag Mechanics (LCCA) / Industrial Electrician Certificate (LT)

Draft



This full time 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 should be advised that meeting minimum requirements will not guarantee admission. Postsecondary institutions may set additional requirements.

Grade Level	English – 4 units (*specific course required for graduation)	Math – 4 Units (*specific course required for graduation)	Science – 4 Units (*specific course required for graduation)	Social Studies – 3 Units (*specific course required for graduation)	Industrial Electrician Certificate Program	Zero or 7th Period
9th Grade	9th Literature & Composition* Or World Literature	GSE Coord. Algebra* Or GSE Analytic Geometry*	Physical Science/Physics* Or Biology*	World History*	1st Semester: Basic Agricultural Science 2nd Semester: Agricultural Mechanics 1 ~10 hrs Industry Experience per Semester	Health* & PE* (*specific course required for graduation)
10th Grade	World Literature Or American Literature/Composition*	GSE Analytic Geometry* Or GSE Adv. Algebra	Biology* Or Chemistry / Environmental Science / Forensic Science	US History*	1st Semester: Agricultural Mechanics 2 2nd Semester: Agricultural Metal Fabrication ~20 hrs Industry Experience per Semester	
11th Grade	American Literature/Composition* Or TCR English	GSE Adv. Algebra Or TCR Math	Environmental Science / Forensic Science Or Dual Enrollment	Econ* / Gov* (High School) Or Dual Enrollment Econ or Government	WBL - Youth Apprenticeship (possible 2 periods WBL) Or 1st Semester: DE IDSY 1130 Industrial Wiring 2nd Semester: DE IDSY 1101 DC Circuit Analysis	DE EMPL 1000 Interpersonal Relations
12th Grade	DE ENGL 1010 Or DE ENGL 1101	DE MATH 1012 Or DE Math 1111	Environmental Science Or Forensic Science		WBL - Youth Apprenticeship (possible 3 periods of WBL) And/Or 1st Semester DE IDSY 1105 AC Circuit Analysis 2nd Semester DE IDSY 1170 Industrial Mechanics	
<p>Students seeking a Diploma: Industrial Mechanical Systems - will need to take 8 additional courses Industrial System Technology – will need to take 7 additional courses Electrical Control Systems – will need to take 6 additional courses</p>						

Sample High Demand Careers in Georgia

Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	Employment Outlook
Agricultural Engineers	Bachelor's Degree	\$74,000	5	High Demand
Welders, Cutters, & Welder Fitters	Postsecondary Certificate	\$36,175	371	High Demand, High Skill
Agricultural Technicians	Bachelor's Degree	\$37,305	43	High Demand, High Skill
Electrical Technician	Associates Degree	\$63,660	19	High Demand, High Skill

Job Outlook Agricultural Engineer	
Total Jobs in 2016	2,700
Expected Growth	8% (As fast as average)
New Jobs to Be Added from 2016-2026	200
Median Pay	\$55,000 - \$74,999
Job Outlook Electrical Technician	
Total Jobs in 2016	137,000
Expected Growth	14% (As fast as average)
New Jobs to Be Added from 2016 -2026	2,800
Median Pay	\$55,000 - \$74,999



Related Pathway Occupations	Other Related Occupations
<ul style="list-style-type: none"> • Agricultural Mechanics • Agricultural Technicians • Electrical Engineering Technicians • Electricians • Welders • Sheet Metal Workers • Electrical Engineering Technologists 	<ul style="list-style-type: none"> • Agricultural Inspector • Agriculture & Food Science Technician • Electric Motor, Power Tool, and Related Repairers • Agricultural Equipment Operator • Farm & Ranch Manager

Agricultural Mechanics / Industrial Electrician Pathway Description

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. 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. Competition for workers is keen because of the scarcity of qualified people to fill agricultural mechanic positions.

An industrial electrician installs, services and repairs wiring, conduits, fixtures and other electrical devices and systems in an industrial or commercial setting. Industrial electricians may work in different industries. They often work primarily either in maintenance or in construction, and their specific duties may depend on the employer. All work performed by an industrial electrician must meet the regulations of the National Electrical Code.

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FFA is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth and career success through agricultural education. FFA develops members' potential and helps them discover their talent through hands-on experiences, which give members the tools to achieve real-world success.

Members are future chemists, veterinarians, government officials, entrepreneurs, bankers, international business leaders, teachers and premier professionals in many career fields. FFA is an intracurricular student organization for those interested in agriculture and leadership. It is one of the three components of agricultural education.

The official name of the organization is the **National FFA Organization**. The letters "FFA" stand for Future Farmers of America. These letters are a part of our history and our heritage that will never change.



The Hall County Board of Education is an equal opportunity employer and does not discriminate on the basis of race, color, national origin, age, religion, handicapping condition, or sex in its education programs or employment.

Student Name _____ Student Signature _____ Date _____

Parent/Guardian Signature _____ Date _____ Counselor _____ Date _____