# aunways: Program of St

Student Name

Date



#### Student Signature

## Parent/Guardian Signature

only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans will meet minimum high school Advisor/Counselor Signature graduation requirements as well as minimum college entrance requirements. 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

Selective Electives		Required Electives	Social Studies	Science	Mathematics	English	Course/Grade	
2 units required 2 units required University Sys For a listing of Mc offered at your hig advisor, counsel	Foundations of Electronics	Foundations of Engineering and Technology		Biology	Mathematics I	9* grade Lit/ Composition	Ninth	Enginee
Modern Language/Latin 2 units required for admissions to Georgia University System Colleges/Universities For a listing of Modern Language/Latin courses offered at your high school, please contact your advisor, counselor, or curriculum handbook	Entrepreneurship or Modern Language	Energy and Power Technology	World History	Physical Science	Mathematics II	10th grade Lit/ Composition	Tenth	Secondary Engineering & Technology: Energy Systems
	CADD Solid Modeling or Modern Language	Appropriate and Alternative Energy Technologies	USHistory	Chemistry	Mathematics III	American Lit/ Composition	Eleventh	Secondary chnology: Ener
Other Electives For a listing of other elective courses offered at your high school, please check with your advisor, counselor, or curriculum handbook.	Energy Systems Internship or Work- Based Learning	Health & Personal Fitness (can be taken in grades 9-12)	Government (1/2 unit) Economics (1/2 unit)	Environmental Science	AP Calculus	AP World Lit/ Composition	Twelfth	gy Systems
Sustainable Building Environments	-Sustainable Building Technologies -Communications for	Third Quarter  Sustainable Energy  Production Technology	Sustainable Concepts II	The Addition of the	-Intro to Microcomputers -Sustainable Concepts I	First Quarter -Composition & Rhetoric	13 <sup>th</sup>	DeKalb To
		ology	epts II	arter	epts	rter chetoric		Tech ate
Fourth Quarter -Digital Electronics I -Digital Electronics II -Microprocessor Fundamentals -Technical Communication		Third Quarter  Solid State Devices II  Linear Integrated Circuits	pts II	Second Quarter  -Alternating Current    -Alternating Current	puters -Soldering Technology  pepts I -Direct Current Circuits II  -College Algebra  -Intro to Microcomputers		13th and 14th	TCSG DeKalb Technical College Pertificate Associates
arter cs   cs   nunication	-Introduction to Humanities -Solid State Devices I	Third Quarter -Solid State Devices II -Linear Integrated Circuits	-Composition & Rhetoric I -Precalculus	ter Second Quarter -Alternating Current   X -Atternating Current   X	-Soldering Technology -Direct Current Circuits II -College Algebra -Intro to Microcomputers	First Quarter -Indust. Safety Procedures -Direct Current Circuits I		TCSG Technical College ate Associates
Fourth Quarter  -Digital Electronics I  -Digital Electronics II  -Microprocessor  Fundamentals  -Technical Communication	-Introduction to Humanities -Solid State Devices I	ilogy	pts II	ter -Alternating Current I -Alternating Current II	Soldering Technology -Direct Current Circuits II -College Algebra -Intro to Microcomputers			TCSG

Engineering Technician, Nuclear Technicians (\$34, 000 to \$63,000) Jobs available after University degree Electrical Engineer, Mechanical Engineer, Chemical Engineer (\$69,000 to \$100,000) in either a 2 or 4 year post-secondary program; 2. Enroll in an apprenticeship program or the military; or 3. Enter the workforce using technical skills learned. When a student finishes a 2- or 4-year degree program, they may choose to EXIT and 1. Enroll in an apprenticeship program or the military, 2. Enroll in a professional university degree program; or 3. Enter the workforce using technical skills learned. Jobs available after High School. Assemblers and Fabricators, Machine Operators, Servicer and Tenders, Computer-Controlled Machine Tool Operator (\$22,000 to \$36,000 a year). Jobs available after Technical College: Electronics Engineering Technician, Environmental In a POS, students have many options to ENTER and EXIT from their academic studies or the workforce. When a student graduates from high school, they are eligible to choose one of many ENTRANCE POINT options: 1. Enrol

pathway.www.gacollege411.org/Select 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 The following link will list Board of Regents institutions offering degrees in Energy Systems. In the first box titled "Major," type "Electrical Engineering," "Renewable Resources," or "Environmental Engineering." Then click the

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

* 4th Science may be used to meet both the required science and required elective in CTAE sequence of courses (V)  **Student must complete 3 units in a pathway to complete CTAE pathway and take end of pathway assessment. Student must	TOTAL UNITS	VII. Electives (4 units)	VI. Health & Physical Education	V. **Career, Technical and Agricultural Education (CTAE), and/or Modern Language/Latin, and/or Fine Arts	IV. Social Studies	III. *Science	II. Math	I. English/Language Arts	Current GEORGIA Graduation Rule for student entering the 9th grade in fall of 2008-2009 Areas of Study:
cience and plete CTAE t must	23	4	1	S	3	4	4	4	Credits
Technology, Electrical Technology, Electrical Construction & Maintenance, Electrical Control Systems, or Electrical Utility Technology	Program drop-down box select	enter a TCSG institution;  Step 2: From the Specific	to select the term you plan to	certificates offered.  https://kms.dtae.org/portal/lcsg/ TCSGProgramOfferings.aspx	college varies in the specific degrees (AAS), diplomas, and	Systems. Each technical	of Georgia (TCSG) institutions	Select the following link for a	Postsecondary Programs of Study Technical College
	-	MatchAsst/default.asp	http://www.gacollege411.org/Select/	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	Resources," or "Environmental Engineering." Then click the button at	Engineering," "Renewable	in Energy Systems. In the first box	The following link will list Board of	Postsecondary Programs of Study University of Georgia System

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

campus and awards (degree, diploma, or certificate) offered program as well as the specific You can then view a list of TCSG institutions that offer this

admission to Georgia Board of Regents colleges/universities

complete 2 years of the same Modern Language/Latin for

		Job Training	Installer & Repairer
230	\$44,304	Long-Term On-the-	Electrical Power-Line
10	\$103,272	Bachelor Degree	Nuclear Engineer
50	\$65,749	Bachelor Degree	Environmental Engineer
110	\$74,547	Bachelor Degree	Electrical Engineer
40	\$34,112	Associate Degree	Environmental Engineering Technician
Annual Average Openings in Georgia	Average Salary	Level of Education Needed	Occupation Specialties

#### **ENERGY SYSTEMS**

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

such as coal, petroleum and natural gas. Related mechanics, reactor operators and engineers. distributors and dispatchers, industrial machinery United States comes from non-renewable sources jobs include power plant operators, power Most of the electricity produced in the

such as wind, water, solar and biomass, are through 2014. opportunities in renewable energy will increase development in this area is ongoing, but the job becoming more common. Research and Renewable power generation, from sources

education, from work experience to college and energy industry should be excellent through 2014 advanced degrees Jobs in the energy field require varying levels of Employment opportunities in the entire

www.GAcollege411.org www.electrifyingcareers.com www.careervoyages.gov For more information, visit the following websites: www.dol.state.ga.us