


<b>Career Cluster: Engineering &amp; Technology Education</b>	<b>Secondary CTE Program: Engineering Pathways (9400300)</b> <b>Post-Secondary Program: Electronics Engineering Technology</b>
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<b>Career Cluster Pathway: Science, Technology, Engineering &amp; Mathematics (STEM)</b>	<b>Secondary Industry Certifications:</b> ADESK011 – Autodesk Certified User Inventor (.2) ADESK024–Autodesk Certified Professional Inventor (.2) ADESK032–Autodesk Certified User Fusion360 (.2) <b>Post-Secondary Industry Certification: ADESK024–Autodesk Certified Professional Inventor</b>
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 <b>WALTON COUNTY SCHOOL DISTRICT</b> <b>South Walton High School/MIC</b>	16 CORE CURRICULUM CREDITS					8 ADDITIONAL CREDITS	
	<b>ENGLISH</b> 4 credits	<b>MATH</b> 4 credits	<b>SCIENCE</b> 3 credits, 2 with lab	<b>SOCIAL STUDIES</b> 3 credits	<b>OTHER REQUIRED COURSES</b> FINE ARTS (1 credit) PHYSICAL EDUCATION (1 credit)	<b>CAREER AND TECHNICAL EDUCATION COURSES</b>	<b>RECOMMENDED ELECTIVES</b> (ALIGNED WITH COMMUNITY COLLEGE & STATE UNIVERSITY SYSTEM PROGRAMS)

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| <b>HIGH SCHOOL</b> | <ul style="list-style-type: none"> <li>• One course within the 24 credit program must be an online course. Cumulative GPA of 2.0 on a 4.0 scale for 24 credit program.</li> <li>• Students should talk with their counselors about the availability and requirements of AP and Dual courses which are paid for by Walton County School District while you are enrolled in high school. The college credit hours may be used in your Post-secondary education.</li> <li>• Students are also encouraged to participate in CTE dual enrollment courses which may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements. Three courses are required within one program for BF – GSV.</li> <li>• Students are encouraged to begin planning for careers and postsecondary options by exploring resources at <a href="http://mycareershines.org">mycareershines.org</a>.</li> </ul> |  |  |  |  |  |  |
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<b>HIGH SCHOOL</b>	<b>9<sup>th</sup></b>	English I or Honors	Algebra 1	Environmental Science or AP Enviro Sci or Biology	AP Human Geography	Physical Education (1 credit) / HOPE (PE Variation)	Introduction to Engineering Design 8600550	Elective Practical/Fine Arts
	<b>10<sup>th</sup></b>	English II or Honors	Geometry	Biology or Bio Honors or AP Bio	World History or WH Honors or AP WH	Practical Arts or Fine Arts course (1 credit)	Principles of Engineering 8600520	Foreign Language for SUS admission or other elective appropriate for student's career and education plan.
	<b>11<sup>th</sup></b>	English III or Honors or AP Lang	Prob Stat Honors or Math for College Algebra or Algebra II or Pre-Calculus	Marine Science or Chemistry or AP Chemistry	US History or US History Honors or AP US History	Personal Finance (Online Course)	Engineering Design & Development 8600650	Foreign Language for SUS admission or other elective appropriate for student's career and education plan.
	<b>12<sup>th</sup></b>	English IV or Honors or AP Lit	Prob Stat Honors or Math for College Algebra or AP Statistics / AP Calculus	Marine Science or Physics or AP Physics or AP Comp Science Principles	American Gov /Economics or Honors or AP	Psychology or AP Psychology or Student Choice Elective	Engineering Internship 8300430	Student Choice Elective

<b>POSTSECONDARY (PATHWAYS)</b>	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.		
	<b>TECHNICAL COLLEGE PROGRAM(S)</b>	<b>STATE COLLEGE PROGRAM(S)</b>	<b>UNIVERSITY PROGRAM(S)</b>
	<b>ECTC</b> Electricity <b>OTC</b> Electrician	<b>Gulf Coast State College</b> Engineering Technology – Digital Manufacturing Option, AS <b>Pensacola State College</b> Electronics Engineering Technology, AS	<b>UWF</b> Electrical Engineering, B.S. Computer Engineering, B.S. <b>FSU</b> Electrical Engineering, B.S. Computer Engineering, B.S.
<b>CAREER</b>	Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)		
	Aeronautical Engineer Aerospace Engineer Agricultural Engineer Agricultural Technician Application Engineer Architectural Engineer Automotive Engineer Biomedical Engineer Biotechnology Engineer	CAD Technician Chemical Engineer Civil Engineer Communications Engineer Computer Engineer Computer Programmer Construction Engineer Electrical Engineer Electronics Technician Geothermal Engineer Industrial Engineer	Manufacturing Engineer Manufacturing Technician Marine Engineer Mechanical Engineer Metallurgist Mining Engineer Nuclear Engineer Petroleum Engineer Product/Process Engineer Survey Technician Systems Engineer Transportation Engineer
<b>CREDIT</b>	Secondary to Technical College (PSAV) (Minimum # of clock hours awarded)		
	Autodesk Certified User Inventor shall articulate <b>three (3)</b> college credit hours to <b>Engineering Technology</b> .	<b>Technical College to State College Degree</b> (Minimum # of clock or credit hours awarded) <u>1400</u> clock hour program in <u>Electronic Technology</u> OR the <u>650</u> clock hour program in <u>Electronic Technology 1</u> AND the <u>750</u> clock hour program in <u>Electronic Technology 2</u> shall articulate <u>fifteen (15)</u> college credit hours to the AAS/AS Degree in <u>Electronics Engineering Technology</u> .	
PSAV/PSV to AAS or AS/BS/BAS (Statewide and other local agreements may be included here)			68 hours in Electronics Engineering Technology, AS to Electronics Engineering Technology, BA 68 hours in Computer Engineering Technology, AS to Information Systems Technology, BA
<b>Career and Technical Student Association</b>			
FL-TSA, SkillsUSA			
<b>Non-traditional Program Status:</b> Engineering Pathways is considered a gender neutral program.		<b>2020 Regional Hourly Wage Range: (entry and mean)</b>  Electricians: \$16.61 - \$23.85 Electrical/Electronics Engineering: \$28.56- \$35.27 Civil Engineers: \$30.29 - \$45.87 Industrial Machinery Mechanics: \$19.06 - \$27.10	
<b>Program of Study Graduation Requirements:</b> <a href="http://www.fldoe.org/academics/graduation-requirements">http://www.fldoe.org/academics/graduation-requirements</a> Wage Information provided by Florida Department of Economic Opportunity – Bureau of Workforce Statistics and Economic Research – <a href="http://www.floridajobs.org/workforce-statistics/publications-and-reports/labor-market-information-reports/regional-demand-occupations-list">http://www.floridajobs.org/workforce-statistics/publications-and-reports/labor-market-information-reports/regional-demand-occupations-list</a>			