


Career Cluster: Engineering & Technology Education	Secondary CTE Program: Applied Robotics (9410100) Post-Secondary Program: Electronics Engineering Technology
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Career Cluster Pathway: Science, Technology, Engineering & Mathematics (STEM)	Secondary Industry Certifications: ADESK002 – Autodesk Certified User AutoCAD (.2) ADESK021 – Autodesk Certified Professional AutoCAD (.2) RECFN001 – RECF Pre-Engineering (.1) RECFN002 – RECF Robotics (.1) Post-Secondary Industry Certification: Autodesk Certified Professional Inventor (ADESK024)
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 <p>Walton High School</p>	16 CORE CURRICULUM CREDITS					8 ADDITIONAL CREDITS	
	ENGLISH 4 credits	MATH 4 credits	SCIENCE 3 credits, 2 with lab	SOCIAL STUDIES 3 credits	OTHER REQUIRED COURSES FINE ARTS (1 credit) PHYSICAL EDUCATION (1 credit)	CAREER AND TECHNICAL EDUCATION COURSES	RECOMMENDED ELECTIVES (ALIGNED WITH COMMUNITY COLLEGE & STATE UNIVERSITY SYSTEM PROGRAMS)

- 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.
- 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.
- 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.
- Students are encouraged to begin planning for careers and postsecondary options by exploring resources at mycareershines.org.

HIGH SCHOOL	9th	English 1 or English 1 Honors	Algebra 1 Or Geometry	Physical Science or Biology or Biology Honors	AP Human Geography	PE/HOPE (1 credit) Personal Finance (online grad req.)	Foundations of Robotics 9410110	Student Choice Elective
	10th	English II or English II Honors	Geometry or Geometry Honors or Liberal Arts or Algebra II or Algebra II Honors	Biology or Biology Honors or Chemistry Honors	World History or AP World History	Practical Arts or Fine Arts course (1 credit)	Robotic Design Essentials 9410120	Foreign Language for SUS admission or other elective appropriate for student's career and education plan.
	11th	English III or AP English Lang/Comp	Math for College Readiness or Pre-Calculus or Algebra II	Earth-Space or Marine Science Honors or Anatomy & Physiology	US History or AP US History	Practical Arts or Fine Arts course (1 credit)	Robotic Systems 9410130	Foreign Language for SUS admission or other elective appropriate for student's career and education plan.
	12th	English IV or AP English Literature	Math for College Readiness or College Algebra or Statistics (DE)	Chemistry Honors or Anatomy & Physiology or AP Physics 1/2	American Gov /Economics or American Govt/Economics Honors	Psychology or Student Choice Elective	Robotic Applications Capstone 9410140	Student Choice Elective

POSTSECONDARY (PATHWAYS)	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.		
	TECHNICAL COLLEGE PROGRAM(S)	STATE COLLEGE PROGRAM(S)	UNIVERSITY PROGRAM(S)
	Okaloosa Technical College Building Trades & Construction Design	Gulf Coast State College Engineering Technology – Digital Manufacturing Option, AS Pensacola State College Electronics Engineering Technology, AS	UWF Electrical Engineering, B.S. Computer Engineering, B.S. FSU Electrical Engineering, B.S. Computer Engineering, B.S.
CAREER	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
CREDIT	Secondary to Technical College (PSAV) (Minimum # of clock hours awarded)	Technical College to State College Degree (Minimum # of clock or credit hours awarded)	PSAV/PSV to AAS or AS/BS/BAS (Statewide and other local agreements may be included here)
	Autodesk Certified User AutoCAD shall articulate three (3) college credit hours to the Architectural Design & Construction Technology Program OR three (3) college credit hours to the Drafting and Design Technology-Computer Aided Drafting and Design Program Autodesk Certified Professional AutoCAD shall articulate three (3) college credit hours to the Computer-Aided Drafting and Design Program	<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> .	68 hours in Electronics Engineering Technology, AS to Electronics Engineering Technology, BA 68 hours in Computer Engineering Technology, AS to Information Systems Technology, BA
Career and Technical Student Association			
FL-TSA, SkillsUSA			
Non-traditional Program Status: Females are considered to be non-traditional in the Applied Robotics program.		2020 Regional Hourly Wage Range: (entry and mean) Electricians: \$16.61 - \$23.85 Electronics Engineering Technicians \$28.56-\$35.27 Computer Occupations, All Other: \$27.75 - \$39.09 Industrial Machinery Mechanics: \$19.06 - \$27.10	
Program of Study Graduation Requirements: http://www.fldoe.org/academics/graduation-requirements Wage Information provided by Florida Department of Economic Opportunity – Bureau of Workforce Statistics and Economic Research – http://www.floridajobs.org/workforce-statistics/publications-and-reports/labor-market-information-reports/regional-demand-occupations-list			