


Career Cluster: <i>Engineering & Technology Education</i>					CTE Program: Secondary: <i>Applied Robotics (9410100)</i> Postsecondary: <i>State CIP Code 1615000001</i>			
Career Cluster Pathway: <i>Manufacturing Production Process</i>					Industry Certification: Secondary: <i>RECF Pre-Engineering (RECFN001), AutoDesk Inventor Cert User (ADESK011), RECF Robotics (RECFN002)</i> Postsecondary:			
		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)
HIGH SCHOOL	<ul style="list-style-type: none">Students are encouraged to begin planning for careers and postsecondary options by exploring resources at mycareershines.orgStudents are also encouraged to participate in dual enrollment courses which may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements.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							
	9 th	English I	Algebra I	Earth, Space Science	Elective	Pers Fit (.5 cr) & Ph Ed (.5 cr)	Foundation of Robotics	Elective/Foreign Language
	10 th	English II	Geometry	Biology	American History		Robotic Design Essentials	Elective/Foreign Language
	11 th	English III	Algebra II	Chemistry	World History	Practical Arts or Fine Arts course (1 credit)	Robotic Systems	Advanced Manufacturing Technology Capstone
	12 th	English IV	Statistics	Physics	Am Govt/ Economics		Robotic Application Capstone	Manufacturing Directed Study
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL CENTER PROGRAM(S)		COMMUNITY COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)		
	Northwest Florida State College College Credit Certificate CNC Machinist/Fabricator (CCC) Computer-Aided Design & Drafting (CCC) Digital Manuf Specialist (CCC) Eng Tech Support Specialist (CCC) Rapid Prototyping Specialist (CCC)		Northwest Florida State College A.S.Degrees Engineering Technology: Advanced Technology Specialization (AT) Option (AS) Digital Design & Modeling Specialization Option (AS) Digital Manufacturing Specialization (DM) Option (AS) Electronics Specialization Option (AS) Mechanical Design & Fabrication Specialization Option (AS)			University of West Florida Bachelor of Science Mechanical Engineering		

CAREER	Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)		
		<ul style="list-style-type: none"> • CNC Machinist • CNC Fabricator • Engineering Technician • Mechanical Engineering Technician 	<ul style="list-style-type: none"> • Mechanical Engineer • Electrical Engineer • Robotic Engineer
CREDIT	Articulation and CTE Dual Enrollment Opportunities		
	Secondary to Technical Center (PSAV) (Minimum # of clock hours awarded)	Secondary to College Credit Certificate or 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)
		<u>Statewide Articulation Agreement</u> AutoDesk Inventor Certified User Shall articulate to three (3) college credit hours to the AAS/AS Degree In Engineering Technology.	
Career and Technical Student Association			
SkillsUSA			
Internship/Work Experience Recommendations			
Internship and OJT – Students have the opportunity to intern at Fort Walton Machining and American Elite Molding. They also have the opportunity to participate in on-the-job training at GS Gelato.			

Program of Study Graduation Requirements: <http://www.fldoe.org/academics/graduation-requirements>

[MyCareerShines](#) – Career and Educational Exploration and Information