


<b>Career Cluster: <i>Engineering &amp; Technology Education</i></b>				<b>CTE Program:</b> Secondary: <i>Applied Robotics (9410100)</i> Postsecondary: <i>State CIP Code 1615000001</i>				
<b>Career Cluster Pathway: <i>Manufacturing Production Process</i></b>				<b>Industry Certification:</b> Secondary: <i>RECF Pre-Engineering (RECFN001), AutoDesk Inventor Cert User (ADESK011), RECF Robotics (RECFN002)</i> Postsecondary:				
	<b>16 CORE CURRICULUM CREDITS</b>					<b>8 ADDITIONAL CREDITS</b>		
	<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)	
<b>HIGH SCHOOL</b>	<ul style="list-style-type: none"> <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> <li>Students 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.</li> <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> </ul>							
	<b>9<sup>th</sup></b>	English I	Algebra I	Earth, Space Science	Elective	Pers Fit (.5 cr) & Ph Ed (.5 cr)	Foundation of Robotics	Elective/Foreign Language
	<b>10<sup>th</sup></b>	English II	Geometry	Biology	American History		Robotic Design Essentials	Elective/Foreign Language
	<b>11<sup>th</sup></b>	English III	Algebra II	Chemistry	World History	Practical Arts or Fine Arts course (1 credit)	Robotic Systems	Advanced Manufacturing Technology Capstone
	<b>12<sup>th</sup></b>	English IV	Statistics	Physics	Am Govt/ Economics		Robotic Application Capstone	Manufacturing Directed Study
<b>POSTSECONDARY</b>	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	<b>TECHNICAL CENTER PROGRAM(S)</b>		<b>COMMUNITY COLLEGE PROGRAM(S)</b>			<b>UNIVERSITY PROGRAM(S)</b>		
	<b>Northwest Florida State College College Credit Certificate</b> CNC Machinist/Fabricator (CCC) Computer-Aided Design & Drafting (CCC) Digital Manuf Specialist (CCC) Eng Tech Support Specialist (CCC) Rapid Prototyping Specialist (CCC)		<b>Northwest Florida State College A.S.Degrees</b> 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)			<b>University of West Florida Bachelor of Science Mechanical Engineering</b>		

<b>CAREER</b>	<b>Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)</b>		
		<ul style="list-style-type: none"> <li>• CNC Machinist</li> <li>• CNC Fabricator</li> <li>• Engineering Technician</li> <li>• Mechanical Engineering Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanical Engineer</li> <li>• Electrical Engineer</li> <li>• Robotic Engineer</li> </ul>
<b>CREDIT</b>	<b>Articulation and CTE Dual Enrollment Opportunities</b>		
	<b>Secondary to Technical Center (PSAV)</b> <small>(Minimum # of clock hours awarded)</small>	<b>Secondary to College Credit Certificate or Degree</b> <small>(Minimum # of clock or credit hours awarded)</small>	<b>PSAV/PSV to AAS or AS/BS/BAS</b> <small>(Statewide and other local agreements may be included here)</small>
		<b><u>Statewide Articulation Agreement</u></b> <b>AutoDesk Inventor Certified User</b> Shall articulate to three (3) college credit hours to the AAS/AS Degree In Engineering Technology.	
<b>Career and Technical Student Association</b>			
SkillsUSA			
<b>Internship/Work Experience Recommendations</b>			
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