


<b>Career Cluster: <i>Engineering &amp; Technology Education</i></b>				<b>CTE Program:</b> Secondary: <b>Pathways to Engineering (9400300)</b> Postsecondary: <b>State CIP Code 1615000001</b>				
<b>Career Cluster Pathway: <i>Engineering &amp; Technology</i></b>				<b>Industry Certification:</b> Secondary: <b>AutoCAD Certified User (ADESK002), AutoDesk Inventor Certified User (ADESK011), RECF Pre-Engineering Certification (RECFN001)</b> 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)	Introduction to Engineering Design	Elective/Foreign Language
	<b>10<sup>th</sup></b>	English II	Geometry	Biology	American History		Principles of Engineering	Elective/Foreign Language
	<b>11<sup>th</sup></b>	English III	Algebra II	Chemistry	World History	Practical Arts or Fine Arts course (1 credit)	Digital Electronics	Other elective course appropriate for student's career and education plan.
	<b>12<sup>th</sup></b>	English IV	Statistics	Physics	Am Govt/ Economics		Engineering Design & Development	Other elective course appropriate for student's career and education plan.
<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 Computer-Aided Design & Drafting Digital Manufacturing Specialist Engineering Tech Support Specialist Rapid Prototyping Specialist		<b>Northwest Florida State College</b> Associate in Science in Engineering Technology Advanced Technology Specialization (AT) Option Digital Design & Modeling Specialization Option Digital Manufacturing Specialization (DM) Option Electronics Specialization Option Mechanical Design & Fabrication Specialization Option			<b>University of Florida</b> Bachelor of Science in Aerospace Engineering Bachelor of Science in Electrical Engineering Bachelor of Science in Industrial Systems Engineering Bachelor of Science in Mechanical Engineering		

<b>CAREER</b>	Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)		
	<ul style="list-style-type: none"> <li>• Manufacturing Technician</li> <li>• Packaging Technician</li> <li>• Quality Technician</li> <li>• Technical Sales Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing Technician</li> <li>• Advanced Repair Technician</li> <li>• Packaging Technician</li> <li>• Quality Technician</li> <li>• Electronics Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Test Engineer</li> <li>• Computer System Analyst</li> <li>• Integration Engineer</li> <li>• Civil Engineer</li> <li>• Biomedical Instrumentation Engineer</li> <li>• Computer-Integrated Manufacturing Engineer</li> <li>• Quality Assurance Engineer</li> </ul>
<b>CREDIT</b>	Articulation and CTE Dual Enrollment Opportunities		
	<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>
		<p style="text-align: center;"><b><u>Statewide Articulation Agreement</u></b></p> <p style="text-align: center;"><b>AutoCAD Certified User</b> shall articulate to three (3) college credit hours to the AAS/AS Degree in Drafting and Design Technology and/or Architecture Design &amp; Construction Technology.</p> <p style="text-align: center;"><b>Autodesk Certified User – Autodesk Inventor</b> shall articulate to three (3) college credit hours to the AAS/AS Degree in Engineering Technology.</p>	
Career and Technical Student Association			
SkillsUSA			
Internship/Work Experience Recommendations			
Internship and OJT			

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

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