


<b>Career Cluster:</b> Engineering & Technology Education (STEM)					<b>CTE Program: Secondary: Academy of Engineering and Environmental Sciences - Applied Engineering Technology (8401100) Creekside High School, St. Johns County School District</b>			
<b>Career Cluster Pathway:</b> Engineering and Technology					<b>Industry Certification: Secondary:</b> AutoCAD User (Adesk002), Revit (Adesk008), Inventor (Adesk011), Solidworks (SOLID003), MSSC CPT (MSSCN001), Entrepreneurship & Small Business (INTUT002), PMI Project Management Ready (PRMIN004)			
	<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> <b>FINE ARTS (1 credit)</b> <b>PHYSICAL EDUCATION (1 credit)</b>	<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 use <a href="http://mycareershines.org">mycareershines.org</a> to explore careers and postsecondary options.</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> </ul> <p><b>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</b></p>							
	<b>9<sup>th</sup></b>	English 1 (H)	Algebra 1 or Geometry (H)	Physical Science/Biology Honors	World Geography/AP Human Geography	HOPE – Health Opportunities through Physical Education	Applied Engineering Technology 1 8401110	Elective or Foreign Language
	<b>10<sup>th</sup></b>	English 2 (H)	Geometry (H) or Algebra 2 (H)	Biology/Chemistry (H)	World History (H/ AP)	Fine or Practical Arts	Applied Engineering Technology 2 8401120	Elective or Foreign Language
	<b>11<sup>th</sup></b>	English 3 (H, DE, AP)	Algebra 2 or Pre-Calculus (H)	Chemistry (H) or Physics (H)	US History (AP)	Elective	Applied Engineering Technology 3 8401130	Elective or Foreign Language
	<b>12<sup>th</sup></b>	English 4 (H, DE, AP)	Math for College Readiness or AP/ DE Mathematics	AP/ DE Course Offerings	Economics/ US Government (H/AP/DE)	Elective	Advanced Technology Applications 8601900	AP Computer Science Principles 0200335 or Elective or Foreign Language
<b>CAREER POSTSECONDARY</b>	<b>Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.</b>							
	<b>TECHNICAL CENTER PROGRAM(S)</b>		<b>COMMUNITY COLLEGE PROGRAM(S)</b>			<b>UNIVERSITY PROGRAM(S)</b>		
	NA		Florida State College at Jacksonville: Architectural Design and Construction Technology, AS-Drafting and Design, Architectural, Civil, GIS			UNF: Civil, Electrical, Mechanical Engineering, BS & AS UCF: Civil, Environmental, Mechanical, Aerospace, and Construction Engineering, BS & MS UF: Civil, Coastal, Electrical, Computer, Materials Science, Mechanical, Aerospace, Biomedical Engineering, BS & MA		
<b>CAREER</b>	<b>Sample Career Specialties</b>							
	NA		Draftsman, Civil Engineering Technician, Surveyor			Civil Engineer, Mechanical Engineer, Electrical Engineer, Aerospace Engineer, Environmental Engineer, Construction Engineer, Coastal Engineer, Aircraft Mechanics		
<b>CREDIT</b>	<b>Articulation and CTE Dual Enrollment Opportunities</b>							
	<b>Secondary to Technical Center (PSAV)</b>		<b>Secondary to College Credit Certificate or Degree</b>			<b>PSAV/PSV to AAS or AS/BS/BAS</b>		
	N/A		AutoCAD User earns 3 credits in Drafting and Design Technology; AutoCAD Inventor earns 3 credits in Engineering Technology, MSSC earns 12 credits.			N/A		
<b>Career and Technical Student Association</b>								
Florida Technology Student Association (FL-TSA)								
<b>Internship/Work Experience Recommendations</b>								
Career Academy students may apply for summer internships after their junior year.								
<b>Program of Study Graduation Requirements:</b> <a href="http://www.fldoe.org/academics/graduation-requirements">http://www.fldoe.org/academics/graduation-requirements</a>								