


<b>Career Cluster:</b> Information Technology		<b>CTE Program:</b> <b>Secondary: Academy of Information Technology</b> Beachside High School, St. Johns County School District						
<b>Career Cluster Pathway:</b> Web Application Development & Programming		<b>Industry Certification:</b> <b>Secondary:</b>						
		<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</b> (1 credit) <b>PHYSICAL EDUCATION</b> (1 credit)	<b>CAREER AND TECHNICAL EDUCATION COURSES</b>	<b>RECOMMENDED ELECTIVES</b> (ALIGNED WITH STATE COLLEGE & 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> <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 1, English Honors 1	Algebra 1, Algebra 1 Honors, Geometry Honors, Algebra 2 Honors	Environmental Science, Physical Science Honors, Biology 1 Honors	AP Human Geography, World Cultural Geography or Elective	HOPE – Health Opportunities through Physical Education	Foundations of Programming	Spanish, ASL
	<b>10<sup>th</sup></b>	English 2, English Honors 2	Geometry, Geometry Honors, Pre-Calculus Honors	Biology, Biology Honors, Chemistry, Chemistry Honors, Physics	AP World History, World History, World History Honors	2D Art, 3D Art, Digital Media	AP Computer Science Principles	Spanish, ASL
	<b>11<sup>th</sup></b>	English 3, English Honors 3, AP Language	Geometry, Algebra 2, Algebra 2 Honors, AP Calculus AB, AP Statistics	Marine Science, Marine Science Honors, Anatomy and Physiology Honors, Chemistry, Chemistry Honors, Physics Honors	AP US History, US History Honors, US History	Elective	AP Computer Science A	Spanish, ASL
	<b>12<sup>th</sup></b>	English 4, English Honors 4, DE Freshman English, AP Literature	Probability and Statistics, AP Statistics, AP Calculus BC	AP Biology, AP Chemistry, AP Environmental Science, AP Physics	American Government .5 + Economics .5, AP Macro/Micro Econ, AP US Fed Gov't	Elective	Advanced Technology Capstone	Spanish, ASL
<b>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 COLLEGE PROGRAM(S)</b>	<b>STATE COLLEGE PROGRAM(S)</b>			<b>UNIVERSITY PROGRAM(S)</b>			
	N/A	<b>St. Johns River State College, St. Augustine:</b> College Credit Certificates (CCC): Engineering Technology Support Specialist, Mechatronics, Robotics and Simulation Technician  Associate in Science (A.S.) Degree in Engineering Technology			<b>University of North Florida, Jacksonville:</b> College of Computing, Engineering & Construction – Mechanical Engineering (B.S.), MS in Mechanical Engineering  <b>Embry-Riddle Aeronautical University, Daytona:</b> Mechanical Engineering (B.S.), MS in Mechanical Engineering, Ph.D. in Mechanical Engineering, MS in Unmanned and Autonomous Systems Engineer, MS in Unmanned Systems			
<b>C A R E E R</b>		<b>Sample Career Specialties from the Demand Occupations List</b>						

	<p>Electrical and Electronics Repairers, Commercial and Industrial Equipment, Electrical and Electronic Equipment Assemblers, Electromechanical Equipment Assemblers, Aerospace Engineering and Operations Technicians</p>	<p>First-line Supervisors of Production and Operating Workers, Engineering Technology Support Specialist, Robotics and Simulation Technician</p>	<p>Automation Engineer, Autonomous Vehicle, Design Engineer, Design Engineer, Factory Automations Engineer, Research Engineer Robotic Systems Engineer, Mechanical Engineer, Unmanned and Autonomous Systems Engineer</p>
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**Career and Technical Student Association**

FL-TSA, SkillsUSA

**Internship/Work Experience Recommendations**

Career Academy students may apply for summer internships after their junior year.

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