


**Career Cluster:** Information Technology

**CTE Program: Information Technology Academy**  
**Secondary: Bartram Trail High School, St. Johns County School District:** Integrated Information Technology (9003500)  
**Postsecondary: St. Johns River State College: St. Augustine:** Internet Services Technology-(A.S. 1511080102), Web Development Specialist (CCC 0511080103), Computer Network Engineering Technology-(A.S. 151100111); Network Security (CCC 0511100118); Information Technology Support Specialist (CCC 0511010311)  
**First Coast Technical College: St. Augustine:** Digital Design 1 (CCC K700100) & Digital Design 2 (CCC K700200)

**Career Cluster Pathway:** Information Support & Services

**Industry Certifications: Secondary:** Adobe Dreamweaver (ADOBE010), CompTIA A+ (COMPT001), MTA Windows OS Fundamentals (MICRO076), MTA Mobility and Devices Fundamentals (MICRO102), MTA Database Administration Fundamentals (MICRO070), MTA HTML 5 Application Developer Fundamentals (MICRO080), Oracle Certified Associate: JAVA Programmer (ORACL004), CIW Site Development Associate (PROSO020), CIW Advanced HTML 5 & CSS3 Specialist (PROMO027)  
**Postsecondary- St. Johns River State College:** CompTIA Network + (COMPTIA006), CompTIA A+ (COMPT001), CompTIA Security + (COMPT008)  
**First Coast Technical College: St. Augustine:** ADOBE003-Adobe Certified Expert-Illustrator, ADOBE005-Adobe Certified Expert-Photoshop, ADOBE019- Adobe Certified Expert-Dreamweaver

	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)	

<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> <p style="text-align: right;">* - Honors weighting in CTE classes</p>							
	<b>9<sup>th</sup></b>	English 1 or English 1 Honors	Algebra 1 or Algebra 1 Honors	Environmental Science, Physical Science Honors or Biology Honors	AP Human Geography	HOPE – Health Opportunities through Physical Education	IT Principles (Honors) 9003510	<b>POSSIBLE OTHER ELECTIVES</b> To be offered to 11 <sup>th</sup> or 12 <sup>th</sup> graders (if teacher available) AP Computer Science 0200320 Cloud Fundamentals 9003550
	<b>10<sup>th</sup></b>	English 2 or English 2 Honors	Geometry or Geometry Honors	Biology or Chemistry or Chemistry Honors	World History or AP World History	World Language	Web Development Principles (Honors) 9003520	
	<b>11<sup>th</sup></b>	English 3 or English 3 Honors or AP English Language	Algebra 2 or Algebra 2 Honors	Chemistry, Chemistry Honors, or Physics Honors	US History or AP US History	World Language	Database Principles (Honors) 9003530	
	<b>12<sup>th</sup></b>	English 4 or English 4 Honors or AP English Literature	Pre Calc Honors, Math for College Readiness, Adv Topics in Math, AP Stats, AP Calculus	AP Chem, AP Bio, AP Physics, AP Environmental, Marine Science Honors or Anatomy Honors	US Gov & Econ or AP US Gov/US Gov Honors & AP Micro/Macro Econ	Elective or World Language	Programming Principles (Honors) 9003540	

<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>		
	TECHNICAL CENTER PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)	UNIVERSITY PROGRAM(S)
	<b>First Coast Technical College, St. Augustine:</b> Digital Design 1, Digital Design 2 - Certificates  <b>St. Johns River State College, St. Augustine:</b> Web Development Specialist – Certificate, Network Security-Certificate, Information Technology Support Specialist - Certificate	<b>St. Johns River State College, St. Augustine:</b> Internet Services Technology A.S., Computer Network Engineering Technology A.S.	<b>University of North Florida, Jacksonville –</b> Computer Science, Information Science, Information Technology  <b>Flagler College, St. Augustine:</b> Graphic Design, Communication and Media  <b>St. Johns River State College, St. Augustine:</b> Organization Management-Computer Information Systems

<b>CAREER</b>	<b>Sample Career Specialties – Careers from the Targeted , List are in bold.</b>	
	Desktop Publisher, Multimedia Artists & Animators, Graphic Designer, Web Designer, <b>Web Developer, Network Security, Computer User Support Specialist, Network Support Technician</b>	<b>Network Support Specialist, Network Support Technician, Computer User Support Specialist, Database Administrator, Network and Computer Systems Administrator, Software Applications Technician</b>

**C R E D I T**      **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 included here)
	No CTE articulation agreement. No CTE Dual Enrollment.	<b>St. Johns River State College:</b> <u>Networking Services</u> - CompTIA Network + = CNT 2500 – Network Fundamentals, 3 credits; <u>Computer Information Technology &amp; Computer Engineering</u> , CompTIA A+ = CET 1178C – Computer Hardware Support Essentials & CET 2179C-Computer Software Support Essentials, 6 credits; CompTIA Network + = CET 1600C Network Fundamentals, 3 credits; <u>Internet Services Technology</u> – Adobe Flash = CGS 2871 Multimedia, 3 credits; Adobe Dreamweaver = CGS 2820 Web Page Design & Publishing, 3 credits; Office Administration – MOS Bundle = CGS 1100 Microcomputer Applications Software, 3 credits; <u>Computer Programming</u> – Java Programming = COP 2800, 3 credits; Python = COP 1000, 3 credits	No CTE articulation agreement. No CTE Dual Enrollment.

**Career and Technical Student Association**

DECA

**Internship/Work Experience Recommendations**

Career Academy students may apply for summer internships after their junior year. Sample internships: Networking Technician Assistant, Web Developer, Database Clerk, Programmer Assistant, Computer Software/hardware Technician

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