Career Cluster: Information Technology	CTE Program: Secondary: Information Technology Academy - Integrated Information Technology (9003500)
	Bartram Trail High School, St. Johns County School District: 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)
Career Cluster Pathway: Information Support & Services	**Industry Certifications: Secondary:** MTA Windows OS Fundamentals (MICRO076), MTA Windows Server Admin Fundamentals (MICRO075), MTA Database OS Fundamentals (MICRO070), MTA Web Development Fundamentals (MICRO072), MTA Intro to Programming, MTA Intro to Programming using Java, MTA Intro to Programming using JavaScript
	Postsecondary- St. Johns River State College: CompTIA Network + (COMPTIA006), CompTIA A+ (COMPT001), CompTIA Security + (COMPT008)

BARTRAM TRAIL HIGH SCHOOL INFORMATION TECHNOLOGY ACADEMY Sponsored by Citi	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)

HIGH SCHOOL

- Students are encouraged to use mycareershines.org to explore careers and postsecondary options.
- 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.
- 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   * - Honors weighting in CTE classes

	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	OTHER REQUIRED	CTE	ELECTIVES
9th	English 1 or English 1 Honors	Algebra I or Algebra 1 Honors	Environmental Science, Physical Science Honors or Biology Honors	AP Human Geography or World Cultural Geography	HOPE – Health Opportunities through Physical Education	Web Development Principles (Honors) 9003520	AP Computer Science Principles
10th	English 2 or English 2 Honors	Geometry or Geometry Honors	Biology or Chemistry or Chemistry Honors	World History or AP World History	World Language	Programming Principles (Honors)	On-line AP Computer Science A
11th	English 3 or English 3 Honors or AP English Lang	Algebra 2 or Algebra 2 Honors	Chemistry, Chemistry Honors, or Physics Honors	US History or AP US History	World Language	Database Principles (Honors) 9003530	
12th	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	9003540 IT Principles (Honors) 9003510	Cloud Principles Honors 9003550 Seniors Only

POSTSECONDARY

Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.

TECHNICAL CENTER PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)	UNIVERSITY PROGRAM(S)
St. Johns River State College, St. Augustine: Computer Programmer, Computer Specialist, Help Desk Support Technician, Network Enterprise Administration, Network Infrastructure-CISCO, Network Security, Homeland Security, IT Administrator, IT Support Specialist, Office Specialist, Office Support, Web Development Specialist	**St. Johns River State College,** St. Augustine: IT Help Desk, Network Support Technician, Cyber Security Technician, Web Designer, Digital Media Specialist **Florida State College of Jacksonville**: Networking Systems Technology, Computer Information Technology, Criminal Justice Technology **Valencia State College, Orlando:** Cyber Security, Advanced Network Infrastructure, Advanced Network Administration, Digital Forensics, Network Administration, Infrastructure & Support	**University of North Florida,** Jacksonville – Computer Science, Information Science, Information Technology **Flagler College,** St. Augustine: Graphic Design, Communication and Media **University of Florida**, Gainesville: Info. Systems **FL State University**, Tallahassee: Information Technology; Digital Media Production; Information, Communication & Technology

CAREER

Sample Career Specialties – Careers from the Targeted Occupations List are in bold.

Cyber Security Technician, Network Support Technician, Network Infrastructure Technician, IT Help Desk Specialist	**Network Administrator, Cyber Security Technician, Network Support Technician, Network Infrastructure Technician, IT Help Desk Specialist**, Web Designer, **Computer Programmer, Database Administrator**	**Network Support Specialist, Network Security Analyst, Computer & Information Systems Manager, Computer Network Architect, Network/Cybersecurity Administrator, Computer Systems Engineer,** Web Designer, Website Developer, **Computer Programmer**

CREDIT

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.	**St. Johns River State College**: Networking Services - CompTIA Network + = CNT 2500 – Network Fundamentals, 3 credits: Computer Information Technology & Computer Engineering, CompTIA A+ = CET 1178C – Computer Hardware Support Essentials & CET 2179C-Computer Software Support Essentials, 6 credits; CompTIA Network + = CET 1600C Network Fundamentals, 3 credits: Internet Services Technology – 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; Computer Programming – 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