Career Cluster: Information Technology (STEM)

Career Cluster Pathway: Applied Cybersecurity

	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

	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	OTHER REQUIRED	CTE COURSES	RECOMMENDED ELECTIVES
9th	English 1 (H)	Algebra 1 or Geometry (H)	Physical Science/Biology Honors	World Geography/AP Human Geography	HOPE – Health Opportunities through Physical Education	IT Principals 9003510	Elective or Foreign Language
10th	English 2 (H)	Geometry (H) or Algebra 2 (H)	Biology/Chemistry (H)	World History (H/ AP)	Fine or Practical Arts	Computer and Network Security Fundamentals 9001320	Elective or Foreign Language
11th	English 3 (H, DE, AP)	Algebra 2 or Pre-Calculus (H)	Chemistry (H) or Physics (H)	US History (AP)	Elective	Cybersecurity Essentials 9001330	AP Computer Science Principles A 0200335 or Elective or Foreign Language
12th	English 4 (H, DE, AP)	Math for College Readiness or AP/ DE Mathematics	AP/ DE Course Offerings	Economics/ US Government (H/AP/DE)	Elective	Operational Cybersecurity 9001340	Web Security 9001380 or Foreign Language

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: Information Technology Support Specialist - CCC , Network Security – CCC	St. Johns River State College: St. Augustine: Computer Engineering Technology – A.S., Internet Services Technology – A.S.	• St. Johns River State College, St. Augustine: Organization Management – Computer Operation Systems - B.S. • University of N. Florida, Jacksonville: Computer Networking – B.S. • University of W. Florida, Pensacola: Cybersecurity, IIT Networking – B.S. • University of MD, Adelphi, MD: Cyber Security and Homeland Security - B.S. • Embry Riddle Aeronautical University: Cybersecurity - Engineering, Cybersecurity Management and Policy - M.S. • University of S. Florida: Cybersecurity - M.S.

CAREER

	Sample Career Specialties	
Network Administrator, CyberSecurity Technician, Network Infrastructure Technician **Computer Network Support Specialist**	Network Administrator, CyberSecurity Technician, **Computer Network Support Specialist**	Network Security Analyst, Computer & Information Systems Manager, **Computer Network Architect,** Network/Cybersecurity Administrator, Computer Systems Engineer, **Computer Network Support Specialist, Computer and Information Systems Manager**

CREDIT

	Articulation and CTE Dual Enrollment Opportunities	
Secondary to Technical Center(PSAV)	Secondary to College Credit Certificate or Degree	PSAV/PSV to AAS or AS/BS/BAS
NA	CompTIA A+ = CET 1178 and CET 2179, 6 hours, in Computer Engineering Technology; Network + = CNT 2500, 3 hours, in Computer Engineering Technology	NA

Career and Technical Student Association

Future Business Leaders of America (FBLA), CyberPatriot

Internship/Work Experience Recommendations

Career Academy students may apply for summer internships after their junior year. Sample internships job titles include: Network Technician Assistant, Cybersecurity Technician Assistant

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