

Career Cluster: Information Technology
 Career Cluster Pathway: Network Systems

CTE Program: **Applied Cybersecurity (Y100300)**
 Industry Certification: COMPT001,COMPT008

16 REQUIRED CREDITS

8 ELECTIVE CREDITS REQUIRED

<i>Collier County Program of Study</i>	ENGLISH (4 credits)	MATH (4 credits)	SCIENCE (3 credits, 2 with lab)	SOCIAL STUDIES (3 credits)	CAREER EDUCATION PROGRAM COURSES	RECOMMENDED ELECTIVES (State University Aligned) (One virtual course is required)
	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	AP- Adv. Placement DE- Dual Enrollment	Other Requirements: Pass FCAT 2/PARC – Reading Level 3, pass Algebra I EOC, and 30% of EOC Exam for Biology, Algebra 2, Geometry, US History	

Dual enrollment and CTE courses satisfy graduation and Bright Futures Gold Seal Vocational Scholar requirements. Agriscience Foundations and Aerospace Technology satisfy core science requirements. State Approved industry certifications lead to college credit and may substitute for up to two high school credits of math and one credit of science. One online course and a 2.0 is required for graduation. Visit www.flvs.org and your counselor.

HIGH SCHOOL	9	English I or Honors (1)	Algebra 1 or Honors (1)	Earth & Space Science or Honors or AP Environmental Science (1)	World Geography or AP Human Geography or Intensive Reading (1)	Digital Information Technology (1) (*Art requirement)	HOPE (1)	Elective or Foreign Language 1 or Intensive Math (1)
	10	English 2 or Honors (1)	Algebra I/H or Informal Geometry or Geometry/ H (1)	Biology or Honors (1)	World History or Honors or AP (1)	Humanities or Intensive Reading (1)	Elective (1)	Elective or Foreign Language 2 or Intensive Math (1)
	Students must take the TABE within 6 weeks of attending classes at the Immokalee Technical College. Students are encouraged to take the ACT, SAT or PERT during 11th grade						Program Y100300 Applied Cybersecurity at ITC (2 Pds.)	
	11	English 3 or Honors or DE or AP (1)	Geometry/H or Algebra 2/H or DE or AP (1)	Chemistry or Physical Science or Physics or DE or AP (1)	American History or Honors, DE or AP (1)	FL Virtual Course (1)	Y100300 Applied Cybersecurity: CTS0018 Cybersecurity Associate (300-450 hrs.)	
	12	English 4 or Honors or DE or AP (1)	Algebra 2/H or College Ready Math or DE or AP (1)	Physics or DE or AP or Other Elective (1)	American Gov/ Economics or Honors or DE or AP (1)	Program Y100300 Applied Cyber Security at ITEC (2-3 Periods)		
							Y100300 Applied Cybersecurity: CTS0018 Cybersecurity Associate (cont) – (300-600 hrs) – OCP A; and CTS0019 Information Security Manager – (150 hrs) – OCP B (*OCP C, D, E, F can be completed after graduation)	

POSTSECONDARY	Based on this Career Cluster and identified career and identified technical education program, the following postsecondary options are available.		
	TECHNICAL CENTER PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)	UNIVERSITY PROGRAM(S)
	Y100300 Applied Cybersecurity – PSAV – (750 hours) - ITC	<ul style="list-style-type: none"> - Information System Mgmt. with specialization in Networking Security, AS, (90 cr.) – Rasmussen College -Network Security, AS (63 cr.) – HCC -Network Security(Cyber) -Cisco CCC (21cr.) HCC -Networking Services Technology, AS, with specialization in Network Security (63 cr.)-FSC 	<ul style="list-style-type: none"> - Cyber Security, (181 Cr). BS, Rasmussen College - Applied Sciences w/ minor in Information Technology, BSAS, (120 cr.) + (60 cr.) – USF - Cyber Intelligence and Security, BS, (120cr.)- ERAU

ARTICULATIONS/ CREDIT	High School Students Dual Enroll in PSAV Technical Center Program	Technical Center or High School to Community or State College	State and Community Colleges to Universities
	ITC Y100300 Applied Cybersecurity (750 hrs.) CTS0018 Cybersecurity Associate (600 hrs.) CTS0019 Information Security Manager(150 hrs)	<u>Statewide</u> -COMPT008 -CompTIA Security + = (3 Cr.) toward AS in E-Business Technology -COMPT001 – CompTIA A+ = (3 Cr.) toward AS in Computer Information Technology and (6 Cr.) toward AS in Computer Engineering Technology -CISCO0011 - Cisco Certified Network Associate Security (CCNA® Security) = (3 Cr.) toward AS in Networking Services Technology and (3 Cr.) toward AS in Computer Engineering Technology - MICRO069 <u>certification</u> Microsoft Office Specialist (MOS) Bundle(3 of 5) = (3 cr.) toward AS, Office Administration	<u>Statewide</u> - Regionally Accredited AS Degree Program (60 Cr.) to BS Applied Science (60 cr.) = (120 Cr.)
Based on the Career Cluster of interest and identified CTE program the following are sample career specialties			
CAREERS	Technical Centers	Community Colleges	4 Year Colleges and Universities
	(DOL) Computer Support Specialists (HSHW) PC Support Specialist Network Technician User Support Specialist (HSHW) Security Specialist	(DOL) Computer Programmers (HSHW) (DOL) Vocational Education Teachers, Postsecondary (HSHW) Telecommunications Network Technician Information Systems Operator Information Security Administrator	(DOL) Computer Systems Analysts (HSHW) Information Security Analysts (DOL) Network and Computer System Architects and Administrators (HSHW) Network Consulting Engineer IT Security Engineer Security Analyst
INDUSTRY CERTIFICATIONS			
<u>All certifications students have the opportunity to take while in this POS:</u> COMPT001 – CompTIA A+, Computing Industry Association COMPT008 – CompTIA Security+, Computing Technology Industry Association CISCO011 - Cisco Certified Network Associate Security, CCNA Security MICRO077 - Microsoft Technology Associate (MTA) – Security Fundamentals, Microsoft Corporation MICRO069 – Microsoft Office Specialist (MOS) Bundle Certification (3 out of 6), Microsoft Corporation			
CAREER AND TECHNICAL STUDENT ASSOCIATION			
Future Business Leaders of America (FBLA), Business Professionals of America (BPA) and Phi Beta Lamda			
INTERNSHIP/WORK EXPERIENCE RECOMMENDATIONS			
Volunteer, intern, shadow or work with the IT department at your school or any local business that operates with an IT department. Join FBLA. Refer to http://collierschools.com/careertech/internships.htm for district approved internship opportunities.			
****	Reviewed May 1, 2016 and updated annually. See your Counselor for the most recent plan as student schedules will vary based on the needs of the student. Find detailed graduation requirements at: http://www.fldoe.org/academics/graduation-requirements		

Applied Cybersecurity (ITEC - Postsecondary) #Y100300