A.A.S. Degree in Networking and Cybersecurity

Computer Science is a hands-on, challenging, and in-demand field that impacts the world in countless ways. Computer scientists play a key role in developing technology and systems for many industries. Healthcare, business, finance, manufacturing and social media are among some of these industries.

To keep up with the expanding IT world, employers look to hire job candidates who excel in an ever-changing technical environment. Students graduate from this degree program equipped with in-demand knowledge in networking and cybersecurity. In the Networking & Cybersecurity program students learn what they'll need to perform specific tasks that meet industry-recognized standards. Some of these tasks include skills associated with network administration and cybersecurity, computer networks and data communications, and information and data security.

With your FLCC education, you'll be ready to get right to work. Grads go on to land positions as (sample career areas):

- Application Developers
- Network Technicians
- Database Administrators
- Programmers
- Help Desk Technicians
- Website Security
- Network Administrators
- Data Security

Curriculum Requirements: As a student in the Networking and Cybersecurity program, you are required to complete 63-64 college credit hours with an FLCC Transcript grade point average of no lower than C (2.0). For this degree program, you must successfully complete the following (under College Courses).

Year 1: 9th Grade	High School Courses	College Courses
Focus: academic success in all courses, review requirements towards high school diploma, professional skill development, interest survey and exploration in P-TECH pathways and chose pathway by year's-end, introductory college courses, industry speakers.	ELA 9	Computing Science Portal: CSC 103 **
	Global Studies I	Core Excel: CSC 135 **
	Living Environment *	
	Algebra I *	
	Foreign Language ^	
	Physical Education 9	
	Study Skills (Professional and Thinking Skills)	

Year 2: 10th Grade	High School Courses	College Courses
Focus: academic success in all courses, review and audit transcript towards high school diploma, professional skill development, further exploration of career options, industry partners participate in projects and offer tours, begin full year of college courses.	ELA 10	Computer Imaging: ART 115 **
	Global Studies II *	Health: HPE 212 **
	Earth Science *	Intro to Programming and Computing Lvl 1: CSC 115 **
	Geometry *	
	Physical Education 10	

This is an overview of this pathway and can differ from student to student depending on what high school credits and courses a student may complete in 8th grade and how each student completes planned P-TECH courses (both high school and college).

Year 3: 11th Grade	High School Courses	College Courses
Focus: academic success in all courses, review and audit transcript towards high school diploma, professional skill development, further exploration of career options, visit industries, industry partners participate in projects and offer tours, begin cover letter & resume development, interview training, research and plan for work-based learning experiences.	ELA 11	Introductory Statistics I: MAT 121 **
	U.S. History and Government *	Introductory Statistics II: MAT 122 **
	Applied Science or Chemistry * #	Intro to Programming and Computing Lvl 2: CSC 115 **
	Physical Education 11	Emerging Technologies: TECH 116 **

Year 4: 12th Grade	High School Courses	College Courses
Focus: complete academic requirements towards high school diploma, review and audit college transcript, refine cover letter & resume, continue interview training, engage in work-based experiences, register for full-time enrollment at Finger Lakes Community College	ELA 12A (if do not meet ENG 101 pre-req)	Composition I: ENG 101 **
	ELA 12B (if do not meet ENG 101 pre-req)	Composition II: ENG 103 (113) **
		American Government: POL 100 **
		Principles of Macroeconomics: ECO 210 **
		Physical Education- Walk and Jog: HPE 121 **
		Physical Education- Lifetime Fitness: HPE 125 **
		A+ Hardware and OS Technologies: CSC 271 **
		Principles of Information Security: CSC 270 **
		Human Communication: COM 100 **

Year 5: 13th Grade (first full year at FLCC)	High School Courses	College Courses
Focus: full-time enrollment in Finger Lakes Community College, meet with P-TECH liaison, update cover letter & resume, continue interview training, internship and career searches, engage in work-based experiences and internships		Fundamentals of Information Systems: CSC 142 ~
		Networking Technologies: CSC 260 ~
		Routing and Switching: CSC 261 ~
		Command Line Network Admin: CSC 248 ~
		Level 2 CSC Elective ~
		Gen Ed SUNY course in History or Civilization ~

W-FL P-TECH--- As of: 12/30/2018 9:57 AM

This is an overview of this pathway and can differ from student to student depending on what high school credits and courses a student may complete in 8th grade and how each student completes planned P-TECH courses (both high school and college).

Year 6: 14th Grade (second full year at FLCC)	High School Courses	College Courses
Focus: full-time enrollment in Finger Lakes Community College, meet with P-TECH liaison, finalize cover letter & resume, complete work-based experiences and internships, complete A.A.S. degree and graduate, apply for jobs and prepare for interviews, if choose: apply for enrollment in a four-year college program		Linux: CSC 272 ~
		Systems Administration: CSC231 ~
		Ethical Hacking: CSC 273 ~
		Computer Forensics and Investigations: CSC 274 ~
		Computer Sciences Internship: CSC 250 ~

* Course leading to NYS Regents Examination; Required for Regents Diploma/Graduation (4+1)

** Dual-credit course: counts toward both high school and college credits

^ Required for high school diploma, usually completed for credit by end of 8th grade

Depends on which course is available for that school year

~ FLCC college courses completed in years 5 & 6 and order of completion determined by student and FLCC advisor

Additional information on the A.A.S. degree in Networking and Cybersecurity can be found at the Finger Lakes Community College website:
Networking and Cybersecurity
- Program Overview
- Curriculum Requirements
- Course Descriptions
- Sample Schedule

College Courses and A.A.S. degree requirements are established by FLCC and may be updated at their discretion

This is an overview of this pathway and can differ from student to student depending on what high school credits and courses a student may complete in 8th grade and how each student completes planned P-TECH courses (both high school and college).