

Computer Technology Associate in Applied Science

The Associate in Applied Science Computer Technology degree program prepares students for entry-level computer technology positions. Emphasis throughout the program's duration is placed on effective computer and communication skills.

The **Cybersecurity Concentration** trains students how to protect and defend computer systems, networks, programs and databases against cyber-attacks. Emphasis is placed on implementing defensive tools to prevent cyber-attacks, learning how to simulate attacks to defend against them, and in the event of a successful attack, knowing how to recognize the effects and repair the damage as quickly as possible.

Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note, however, that many variables can affect this plan, and not every course is offered every semester. Please see your advisor to map out your own personalized progression toward graduation.

Note: Please contact your advisor for recommended evening schedules.

Cybersecurity Concentration Recommended Program Schedule

FIRST SEMESTER		HOURS
COL 111	E-Learning Success	1
COL 105	Freshman Seminar	3
CPT 113	Information Systems	3
ENG 101	English Composition I	3
Select one of the following:		3
MAT 120	Probability and Statistics	
MAT 103	Quantitative Reasoning ¹	
MAT 109	College Algebra With Modeling	
Higher college transferable math		
Total Semester Hours		13
SECOND SEMESTER		
IST 220	Data Communications	3
CPT 257	Operating Systems	3
CPT 170	Computer Applications I	3
CPT 127	Python Programming I	3
Total Semester Hours		12
THIRD SEMESTER		
CYB 110	Introduction to Cybersecurity	3
IST 190	LINUX Essentials	3
IST 266	Internet and Firewall Security	3
Total Semester Hours		9

FOURTH SEMESTER		
CYB 201	Cybersecurity Operations	3
CYB 294	Incident Response (Blue Teaming)	3
CPT 209	Computer Systems Management	3
Select one of the following:		3
SPC 205	Public Speaking	
SPC 208	Intercultural Communication	
SPC 209	Interpersonal Communication	
	Total Semester Hours	12
FIFTH SEMESTER		
CYB 282	Security and Risk Analysis	3
CYB 269	Digital Forensics	3
CYB 293	Attack Vectors (Red Teaming)	3
CPT 267	Technical Support Concepts	3
	Total Semester Hours	12
SIXTH SEMESTER		
CPT 264	Systems & Procedures	3
Social Sciences Elective		3
Humanities Elective ²		3
	Total Semester Hours	9
	Total Required Credit Hours	67
Plan of Study Grid		

¹ Preferred Course

² Preferred Humanities Elective:

- **PHI 110** Ethics