

CYBER SECURITY & NETWORK ADMINISTRATION, B.A.T.

Course	Title	Hours
Semester 1		
COLL 101	ORIENTATION TO COLLEGE	1
CIT 101	PC MGMT & MAINTENANCE ¹	5
CIT 105	INTRODUCTION TO NETWORKS ²	5
Writing and Rhetoric (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#wr) Elective		3
MATH 125	TECHNICAL MATHEMATICS	3
or MATH 126	or ~COLLEGE ALGEBRA	
or MATH 128	or ~COLLEGE TRIGONOMETRY	
or MATH 141	or ~FINITE MATH	
or MATH 150	or INTRODUCTION TO CALCULUS	
or MATH 155	or ~CALCULUS 1	
or MATH 156	or ~CALCULUS 2	
Hours		17
Semester 2		
CIT 130	PRIN OF INFORMATION SYSTEMS	3
People and Their Worlds (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw) Elective		3
CIT 106	ROUTING & SWITCHING ESSENTIALS	5
CIT 114	WINDOWS OPERATING SYSTEMS	3
Hours		14
Semester 3		
CS 121	INTRODUCTION TO PROGRAMMING	4
CIT 211	NETWORK INFRASTRUCTURE (MCP)	3
CIT 205	ENTERPRISE NETWORKS & SECURITY	4
Scientific Inquiry (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#si) (Phys 101 preferred)		4
Hours		15
Semester 4		
Human Communication and Interaction (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci) Elective		3
SEC 101	SECURITY FUNDAMENTALS	3
CIT 240	INTRODUCTION TO LINUX	3
CIT 260	CAPSTONE PROJECT ⁶	3
Technical Elective ³		2
Hours		14
Semester 5		
SEC 300	INTRO TO SECURITY	3
CIT 305	ADVANCED ROUTING ⁴	5
STEM 300	ETHICS AND TECHNOLOGY	3
Upper Level Technical Elective ⁵		2
Hours		13
Semester 6		
CIT 340	ADVANCED LINUX NETWORKING	3 - 4
or CIT 320	or BLDG A VIRTUAL INFRASTRUCTURE	
Writing and Rhetoric (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#wr) Elective		3
CIT 405	MULTI-LAYER SWITCHED NETWORKS ⁴	5
SEC 430	OPERATING SYSTEM SECURITY	3
or SEC 351	or DEFENSES & COUNTERMEASURES	
MATH 318	DISCRETE MATHEMATICS	3
Hours		17-18
Semester 7		
STEM 420	PROJECT MANAGEMENT	3
CIT 406	ADV NETWORK TROUBLESHOOTING	5
or SEC 350	or NETWORK SECURITY	
MATH 211	~STATISTICS	3
Select one of the following:		3
Aesthetics, Creativity, and Appreciation (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca)		
People and Their Worlds (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw)		
Hours		14
Semester 8		
SEC 351	DEFENSES & COUNTERMEASURES	3
or SEC 430	or OPERATING SYSTEM SECURITY	

2 Cyber Security & Network Administration, B.A.T.

Select two of the following:	6
People and Their Worlds (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw) Elective	
Aesthetics, Creativity, and Appreciation (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca) Elective	
CIT 460 INTERDISCIPLINARY PROJECT ⁶	3
Scientific Inquiry (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#si) Elective (Phys 102 preferred)	4
Hours	16
Total Hours	120-121

- 1 CompTIAA+
- 2 CISCO 1
- 3 Any non-required CIT, CS, SEC, DRAF, or ELEC course
- 4 Milestone course
- 5 Any 300-400 level CIT, CS, or SEC course, as well as ACCT 310, DRAF 314, GBUS 300, GBUS 304 or GBUS 306.
- 6 Capstone course