

ACADEMIC MAP

Cyber Security & Network Administration, B.A.T



Semester 1

COURSE	CR	COMMENTS
COLL 101 ORIENTATION TO COLLEGE	1	
CIT 101 PC MGMT & MAINTENANCE	5	CompTIAA+
CIT 105 INTRODUCTION TO NETWORKS	5	CISCO 1
ENGL 101 OR 103 COMP 1 OR ENGLISH GRAMMAR, USAGE AND STYLE	3	
MATH 125 TECHNICAL MATH OR HIGHER	3	
TOTAL:	17	



The **Bachelor of Applied Technology in Cybersecurity and Network Administration** builds on our Computer and Information Technology AAS degree. Students will be provided the skills to plan, implement, and troubleshoot advanced routing and switching technologies, advanced systems administration technologies, and advanced security systems.



MILESTONE COURSE:
These courses are the keys to graduation. Courses should be taken in the recommended semesters to stay on time for completion.



CAREER PLANNING:
Systems Technician, IT professional, Network Administrator



CAPSTONE COURSE:
A semester long networking project that must be taken in the graduation semester. A "C" or better must be earned in CIT 360.



Students should average 15 credit hours per semester, or 30 per year, to graduate on time.

Semester 2

COURSE	CR	COMMENTS
CIT 130 PRINCIPLES OF INFORMATION SYSTEMS	3	
CS 101 INTRO TO PC APPLICATIONS	4	
CIT 106 ROUTING & SWITCHING ESSENTIALS	4	
CIT 114 WINDOWS OPERATING SYSTEMS	3	
TOTAL:	14	

Semester 3

COURSE	CR	COMMENTS
CS 121 INTRODUCTION TO PROGRAMMING	4	
CIT 205 SCALING NETWORKS	4	
CIT 211 NETWORK INFRASTRUCTURE (MCP)	3	
SOCIETY, DIVERSITY & CONNECTIONS GENERAL EDUCATION ELECTIVE	3	
TOTAL:	14	

Semester 4

COURSE	CR	COMMENTS
SEC 101 SECURITY FUNDAMENTALS	3	
CIT 206 CONNECTING NETWORKS	4	
CIT 240 INTRODUCTION TO LINUX	3	
COMM 111 ~FUNDAMENTALS OF SPEECH	3	
CIT 260 CAPSTONE PROJECT	3	
TOTAL:	16	

TOTAL DEGREE CREDITS:


121

2019-2020

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Semester 5

COURSE	CR	COMMENTS
SEC 300 INTRO TO SECURITY	3	
CIT 305 ADVANCED ROUTING	5	
STEM 300 ETHICS AND TECHNOLOGY	3	
UPPER LEVEL TECHNICAL ELECTIVE	2	
TOTAL:	13	



The **Bachelor of Applied Technology in Cybersecurity and Network Administration** builds on our Computer and Information Technology AAS degree. Students will be provided the skills to plan, implement, and troubleshoot advanced routing and switching technologies, advanced systems administration technologies, and advanced security systems.

Semester 6

COURSE	CR	COMMENTS
CIT 405 MULTI-LAYER SWITCHED NETWORKS	5	
MATH 318 DISCRETE MATHEMATICS	3	
ENGL 308 - ADVANCED WRITING OR ENGL 334 - SCIENTIFIC & TECHNICAL WRITING	3	
SOCIETY, DIVERSITY & CONNECTIONS GENERAL EDUCATION ELECTIVE	3	
CIT 330 OR SEC 430	3	
TOTAL:	17	



MILESTONE COURSE:
These courses are the keys to graduation. Courses should be taken in the recommended semesters to stay on time for completion.



CAREER PLANNING:
Systems Technician, IT professional, Network Administrator



CAPSTONE COURSE:
A semester long networking project that must be taken in the graduation semester. A "C" or better must be earned in CIT 360.


Semester 7

COURSE	CR	COMMENTS
SEC 351 DEFENSES & COUNTERMEASURES	3	
STEM 420 PROJECT MANAGEMENT	3	
SCIENCE & TECHNOLOGY GENERAL EDUCATION ELECTIVE	4	
CIT 406 OT SEC 350 ADV. NETWORK TROUBLESHOOTING OR NETWORK SECURITY	5	
TOTAL:	15	



Students should average 15 credit hours per semester, or 30 per year, to graduate on time.

Semester 8

COURSE	CR	COMMENTS
ARTS AND CREATIVITY GENERAL EDUCATION ELECTIVE	3	
CIT 330 OR SEC 430	3	
MATH 211 STATISTICS	3	
HUMAN INQUIRY AND THE PAST GENERAL EDUCATION ELECTIVE	3	
CIT 460 INTERDISCIPLINARY PROJECTS	3	
TOTAL:	15	

TOTAL DEGREE CREDITS:

121

2019-2020

Graduation Requirements:

- Complete the minimum number of credit hours required for the degree.
- Complete the general education curricula for the degree.
- Complete at least 30 semester hours credit at WVU Parkersburg.
- Maintain a minimum 2.0 cumulative grade point average.
- C or better must be obtained for all CIT, CS, STEM and SEC courses.
- Complete and file the graduation application, in OLSIS, within the stated deadlines.

General Education Courses



To ensure breadth and depth as students meet these broad education goals, the curriculum focuses on six academic "strands."

Composition & Rhetoric	Science & Technology	Math & Quantitative Skill	Society, Diversity & Connections	Human Inquiry & the Past	The Arts and Creativity
ENGL 101	ASTR 106	MATH 120 *	COMM 105	HIST 101	History & Literature of the Arts
ENGL 102	BIOL 101 & BIOL 103 L	MATH 121	COMM 111	HIST 102	
ENGL 107*	BIOL 102	MATH 125 *	COMM 112	HIST 152	ART 101
ENGL 108*	BIOL 104 L	MATH 126	ECON 201	HIST 153	ART 105
	BIOL 107 *	MATH 128	ECON 202	HIST 250 *	ART 106
	BIOL 108 *	MATH 129	FREN 101	PHIL 111	MUSI 170
	BIOL 109 *	MATH 150	FREN 102	PHIL 150 *	THEA 101
	BIOL 115	MATH 155	GEOG 102	PHIL 170	Literature
	BIOL 117	MATH 156	GEOG 240		ENGL 131
	BIOL 171	MATH 211	POLS 102		ENGL 132
	CHEM 111		POLS 220		ENGL 221
	CHEM 115		PSYC 101		ENGL 222
	CHEM 116		PSYC 241		ENGL 241
	CS 101		RELI 231		ENGL 242
	GEOL 101 & GEOL 102 L		SOC 101		ENGL 261
	GEOL 103 & GEOL 104 L		SOC 105		ENGL 262
	GEOL 105 & GEOL 105 L		SOC 221		ENGL 285
	PSCI 111		SOC 232		Applied Arts
	PSCI 112		SPAN 101		ART 109
	PHYS 101		SPAN 102		THEA 102
	PHYS 102				Creative Writing
	PHYS 111				ENGL 213
	PHYS 112				ENGL 214
					ENGL 215

* Serves technical and professional degree programs specific to WVU Parkersburg. Does not transfer to WVU as General Education (March 2018).