


# 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
WRITING AND RHETORIC ELECTIVE	3	
MATH 125 OR MATH 126	3	
<b>TOTAL:</b>	<b>17</b>	



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.

COURSE	CR	COMMENTS
CIT 130 PRINCIPLES OF INFORMATION SYSTEMS	3	
PEOPLE AND THEIR WORLDS ELECTIVE	3	
CIT 106 ROUTING & SWITCHING ESSENTIALS	4	
CIT 114 WINDOWS OPERATING SYSTEMS	3	
<b>TOTAL:</b>	<b>13</b>	



**CAREER PLANNING:** Systems Technician, IT professional, Network Administrator

## Semester 3

COURSE	CR	COMMENTS
CS 121 INTRODUCTION TO PROGRAMMING	4	
CIT 211 NETWORK INFRASTRUCTURE (MCP)	3	
PHYS 101 ~INTRO TO PHYSICS 1	4	
CIT 205 ENTERPRISE NETWORKS & SECURITY	4	
<b>TOTAL:</b>	<b>15</b>	




**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 4

COURSE	CR	COMMENTS
HUMAN COMMUNICATION AND INTERACTION ELECTIVE	3	
SEC 101 SECURITY FUNDAMENTALS	3	
CIT 240 INTRODUCTION TO LINUX	3	
CIT 260 CAPSTONE PROJECT	3	
<b>TOTAL:</b>	<b>12</b>	

**TOTAL DEGREE CREDITS:**

# 120

2022-2023

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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	
<b>TOTAL:</b>	<b>13</b>	



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 340 OR SEC 430	3	
WRITING AND RHETORIC ELECTIVE	3	
PEOPLE AND THEIR WORLDS ELECTIVE	3	
CIT 405 MULTI-LAYER SWITCHED NETWORKS	5	
MATH 318 DISCRETE MATHEMATICS	3	
<b>TOTAL:</b>	<b>17</b>	



**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

## Semester 7

COURSE	CR	COMMENTS
SEC 351 DEFENSES & COUNTERMEASURES	3	
STEM 420 PROJECT MANAGEMENT	3	
PHYS 102 ~INTRO TO PHYSICS 2	4	
CIT 406 OR SEC 350 ADV. NETWORK TROUBLESHOOTING OR NETWORK SECURITY	5	
<b>TOTAL:</b>	<b>15</b>	



**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 8

COURSE	CR	COMMENTS
CIT 340 OR SEC 430	3	
PEOPLE AND THEIR WORLDS ELECTIVE	3	
QUANTITATIVE REASONING ELECTIVE	3	
AESTHETICS, CREATIVITY, AND APPRECIATION	3	
MATH 211 STATISTICS	3	
CIT 460 INTERDISCIPLINARY PROJECTS	3	
<b>TOTAL:</b>	<b>18</b>	

**TOTAL DEGREE CREDITS:**

**120**

2022-2023

# Foundational Learning Courses (FLCs):

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

<b>Aesthetics, Creativity, and Appreciation</b>	<b>Human Communication and Interaction</b>	<b>People and Their Worlds</b>	<b>Quantitative Reasoning</b>	<b>Scientific Inquiry</b>	<b>Writing and Rhetoric</b>
ART-101	COMM-105	ECON-201	MATH-120	ASTR-106 BIOL-101	ENGL-101
ART-111	COMM-111	ECON-202	MATH-125	BIOL-102	ENGL-102
ENGL-131	COMM-112	GEOG-102	MATH-126	BIOL-103	ENGL-107
ENGL-132	COMM-202	HIST-101	MATH-211	BIOL-104	
ENGL-221		HIST-102		BIOL-107	
ENGL-222		HIST-152		BIOL-108	
ENGL-241		HIST-153		BIOL-109	
ENGL-242		HIST-250		BIOL-115	
ENGL-257		PHIL-111		BIOL-117	
ENGL-261		PHIL-150		BIOL-171	
ENGL-262		PHIL-231		CHEM-111	
ENGL-285		POLS-101		CHEM-115	
MUSI-170		POLS-102		CHEM-116	
THEA-101		PSYC-101		GEOL-101	
		PSYC-241		GEOL-102	
		SOC-101		GEOL-103	
		SOC-107		GEOL-104	
		SOC-221		GEOL-105	
				PSCI-101	
				PSCI-111	
				PSCI-112	
				PHYS-101	
				PHYS-102	
				PHYS-111	