

Computer Information Systems Networking and Cyber Security Specialist

Semester Course Outline • 2022 – 2023

18 Months (4 Semesters) • Revised: 5/18/22

Associate of Applied Science (A.A.S.) Degree • Credits Required for Graduation: 70



Fall Semester – 2022

Course Number	Course Title	Clock Hours	Credits
CIS 115	IT Essentials	84	3
CIS 132	Intro to Computer Programming	45	3
CIS 140	Database Design and SQL	45	3
NET 115	Networking I	112	4
<ul style="list-style-type: none"> Selected Behavioral Science Course (Choose one) PSYC 100 – Psychology of Human Relations PSYC 101 – General Psychology * 		45	3
<ul style="list-style-type: none"> Selected Mathematics Course (Choose one) MATH 100 – Applied General Math MATH 101 – Intermediate Algebra MATH 114 – College Algebra * 		45	3
Total		376	19

Spring Semester – 2023

Course Number	Course Title	Clock Hours	Credits
CIS 260	UNIX OS Administration	112	4
CIS 280	Windows Server Administration	84	3
NET 121	Networking II	112	4
NET 131	Networking III	112	4
<ul style="list-style-type: none"> Selected Communications Course (Choose one) CMST 101 – Fundamentals of Speech * (CSS 100 – Career Search Strategies .5 credit) COMM 101 – Communications and Career Strategies ENGL 101 – Composition * (CSS 100 – Career Search Strategies .5 credit) 		45	3
Total		465	18

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Networking and Cyber Security Specialist

Semester Course Outline • 2022 – 2023

Fall Semester – 2023

Course Number	Course Title	Clock Hours	Credits
CIS 265	Virtualization	84	3
CIS 285	System Administration	84	3
NET 275	Advanced Networking I	112	4
<ul style="list-style-type: none"> Selected Communications Course (Choose one) CMST 101 – Fundamentals of Speech * (CSS 100 – Career Search Strategies .5 credit) COMM 101 – Communications and Career Strategies ENGL 101 – Composition * (CSS 100 – Career Search Strategies .5 credit) 		45	3
<ul style="list-style-type: none"> Selected Social Science Course (Choose one) ECON 105 – Leadership in the Global Workplace ECON 201 – Principles of Microeconomics I * SOC 100 – Introduction to Sociology * 		45	3
Total		370	16

Spring Semester – 2024

Course Number	Course Title	Clock Hours	Credits
CIS 215	Cyber Security	84	3
CIS 290	System Analysis and Design	84	3
CIS 299	Internship	240	4
NET 215	Hardware Security	84	3
NET 277	Advanced Networking II	112	4
Total		604	17

- Students will select a course in each of the areas listed to meet general education requirements. Courses marked with an asterisk (*) can be transferred directly to the university system. Students should speak with an advisor before doing so.

Students who select to take transferable communications course CMST 101 or ENGL 101, must also register for CSS 100 – Career Search Strategies for .5 credit. This curriculum is required for all Lake Area Tech graduates and is included in the COMM 101 course but is separate from the university system.