

# Computer Information Systems • Networking and Cybersecurity Option

## Semester Course Outline • 2024 – 2025

18 Months (4 Semesters) • Revised: 2/7/24

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



### Fall Semester – 2024

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
● Selected Behavioral Science Course (Choose one) PSYC 100 – Psychology of Human Relations PSYC 101 – General Psychology *		45	3
● Selected Mathematics Course (Choose one) MATH 100 – Applied General Math MATH 101 – Intermediate Algebra MATH 114 – College Algebra *		45	3
<b>Total</b>		376	19

### Spring Semester – 2025

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
● Selected Communications Course (Choose one) COMM 101 – Communications and Career Strategies ENGL 101 – Composition * (CSS 100 – Career Search Strategies .5 credit)		45	3
<b>Total</b>		465	18

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**Fall Semester – 2025**

Course Number	Course Title	Clock Hours	Credits
CIS 265	Virtualization	84	3
CIS 285	System Administration	84	3
NET 215	Security Appliances and Firewalls	84	3
CMST 101	Foundations of Communication *	45	3
<ul style="list-style-type: none"> <li>Selected Social Science Course (Choose one)</li> <li>ECON 105 – Leadership in the Global Workplace</li> <li>ECON 201 – Principles of Microeconomics I *</li> <li>SOC 100 – Introduction to Sociology *</li> </ul>		45	3
<b>Total</b>		342	15

**Spring Semester – 2026**

Course Number	Course Title	Clock Hours	Credits
CIS 215	Cybersecurity and Ethical Hacking	84	3
CIS 290	System Analysis and Design	84	3
CIS 299	Internship	240	4
EST 232	Electronic Troubleshooting for Computer Science	56	2
NET 275	Advanced Networking I	112	4
NET 278	Advanced Networking II	56	2
<b>Total</b>		632	18

- 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.