

Information Technology – Computer Networking AAS (ITCN)

Catalog: 2024-2025			Effective Date: 9/01/2024
CR	COURSE	COURSE TITLE	SUNY GEN ED
1-2	HRD 100, HRD 100A or HRD 110	FRESHMAN EXPERIENCE	
3	ENG 101	<i>Introduction to College Writing</i>	GCWO
3	ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110	<i>Writing II</i>	GCWO
3	SUNY GEN ED Mathematics (and Quantitative Reasoning)	Algebra based mathematics required	GMAT
3-4	SUNY GEN ED Natural Lab Science (and Scientific Reasoning)		GNSL
3	SUNY GEN ED Diversity: Equity, Inclusion and Social Justice		GDVR
3	SUNY GEN ED Humanities, The Arts, US History and Civic Engagement, World History and Global Awareness, Social Sciences or World Languages		GHUM GART CUSC GGLB GSSC GWRL
3	CIS 120	<i>PC Hardware Fundamentals</i>	
3	CIS 131	<i>Introduction to Networking</i>	
4	CIS 133 (Fall only - Prereq and Coreq Required)	<i>Network Fundamentals (CCNA1)</i>	
4	CIS 134 (Spring only - Prereq Required)	<i>LAN/WAN Technologies (CCNA2)</i>	
3	CIS 135 (Prereq Required)	<i>Networking Security I</i>	
4	CIS 139 (Fall only -Prereq Required)	<i>Enterprise Networking (CCNA3)</i>	
3	CIS 140 (Fall only) or CIS 143 (Prereq Required)	<i>Introduction to Programming in a Windows Environment or Introduction to Programming</i>	
3	CIS 150 (Prereq Required)	<i>Topics in Computing</i>	
3	CIS 151 (Fall only - Prereq Required) or CIS 237 (Spring only- Prereq Required)	<i>Server-Side Scripting or Database Management Systems</i>	
3	CIS Elective (Prereq required) – choose one from: CIS 136, CIS 144, CIS 235 (Fall only), CIS 246 or CIS 278	COMPUTER NETWORKING ELECTIVES	
3	CIS 232 (Prereq Required)	<i>Server Administration</i>	
4	CIS 233 (Spring only - Prereq Required)	<i>Enterprise Networking Advanced (CCNP1)</i>	
3	SUNY GEN ED Liberal Arts and Sciences		G***
62	Minimum credits required for graduation		

Note: Please review the back of this form for additional information.

❖ COURSE PREREQUISITES:			
CIS 133	CIS 131 (pre or corequisite)	CIS 151	CIS 122 or CIS 140 or CIS 143
CIS 134	CIS 133	CIS 232	CIS 131
CIS 135	CIS 131 or CIS 143	CIS 233	CIS 138
CIS 136	CIS 131	CIS 235	CIS 134 and CIS 135
CIS 139	CIS 134 or active CCENT certification with instructor permission	CIS 237	CIS 140 or CIS 143
CIS 143	MAT 108 (or equivalent) or CIS 122	CIS 246	CIS 134
CIS 144	CIS 140 with C or better <u>or</u> CIS 143 with C or better	CIS 278	Permission of instructor; recommended for final semester
CIS 150	CIS 140 or CIS 143	MAT 127	MAT 097 within 4 years and 12 earned credits <u>or</u> MAT 108 within 4 years
		MAT 129	MAT 108 with C or better within 4 years

❖ RECOMMENDED SEQUENCE:			
FIRST YEAR			
First Semester		Second Semester	
1-2	HRD 100, HRD 100A or HRD 110		
3	ENG 101	4	CIS 134
3	CIS 131	3	CIS 135
4	CIS 133	3	CIS 140 (Fall only) or CIS 143
3	SUNY GEN ED Liberal Arts and Sciences elective	3	CIS 232
		3	SUNY GEN ED Mathematics (and Quantitative Reasoning) - See Note 1
SECOND YEAR			
Third Semester		Fourth Semester	
3	ENG 102-ENG 110	3	SUNY GEN ED Diversity: Equity, Inclusion and Social Justice
4	CIS 139	3	CIS Elective - CIS 136 or CIS 144 or CIS 235 or CIS 246 or CIS 278 - See Note 2
3	CIS 150	4	CIS 233
3	CIS 151 (Fall only) or CIS 237 (Spring only)	3	CIS 120
3-4	SUNY GEN ED Natural Science Lab Science (and Scientific Reasoning)	3	SUNY GEN ED Humanities, The Arts, US History and Civic Engagement, World History and Global Awareness, Social Sciences or World Languages
NOTES:			
1. Algebra based mathematics are required.			
2. CIS Electives should be chosen through advisement.			

❖ **DEFINITION OF COURSE REQUIREMENTS:** See <http://catalog.sunyacc.edu/academics/degreerequirements>

❖ **FINANCIAL AID RECIPIENTS:** A student **must** choose courses that are within their degree program. Students are encouraged to meet with their assigned academic advisor for any questions about course selection and degree program requirements. Please visit the Office of Financial Aid for any aid-related questions.

❖ **SUNY GEN ED KNOWLEDGE AREAS:** See <http://catalog.sunyacc.edu/academics/generaleducation>

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| ❖ Mathematics (and Quantitative Reasoning) (GMAT) | ❖ Diversity: Equity, Inclusion and Social Justice (GDVR) |
| ❖ Natural Sciences (and Scientific Reasoning) (GNSC/L) | ❖ Humanities (GHUM) |
| ❖ Social Sciences (GSSC) | ❖ The Arts (GART) |
| ❖ US History and Civic Engagement (GUSC) | ❖ World Languages (GWRL) |
| ❖ World History and Global Awareness (GGLB) | ❖ Communication – Written and Oral (GCWO) |