Information Technology – Computer Networking AAS (ITCN)

Catalog: 2022-2023				Effective Date: 9/01/2022				
CR	**COURSE**	**COURSE TITLE**	**SUNY GEN ED**	**TR**	**SEMESTER**			
1-2	HRD 100, HRD 100A or HRD 110	FRESHMAN EXPERIENCE						
3	ENG 101	*Introduction to College Writing*	GEBC					
3	SUNY GEN ED Basic Communication ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110		GEBC					
3-4	MAT 127 or MAT 129	*Introductory Statistics with Probability* or *Discrete Mathematics*	GEMA					
3-4	SUNY GEN ED Natural Science Lab Science		GENS					
3	Social Science or Humanities Liberal Arts and Sciences							
3	SPH 111	*Introduction to Public Speaking*						
3	CIS 131	*Introduction to Networking*						
4	CIS 133 (Fall only - Prereq and Coreq Required)	*Network Fundamentals (CCNA1)*						
4	CIS 134 (Spring only - Prereq Required)	*LAN/WAN Technologies (CCNA2)*						
3	CIS 135 (Prereq and Coreq Required)	*Networking Security I*						
4	CIS 139 (Fall only -Prereq Required)	*Enterprise Networking (CCNA3)*						
3	CIS 140 (Spring only – Prereq Required) or CIS 143 (Prereq Required)	*Introduction to Programming in a Windows Environment* or *Introduction to Programming*						
3	CIS 150 (Prereq Required)	*Topics in Computing*						
3	CIS 151 (Fall only - Prereq Required) or CIS 237 (Spring only- Prereq Required)	*Server-Side Scripting* or *Database Management Systems*						
3	CIS 120	*PC Hardware Fundamentals*						
3	CIS Elective – choose one from: CIS 178 (Prereq required) CIS 136 (Prereq Required) CIS 144, (Prereq Required) CIS 235, (Fall only – Prereq Required) CIS 246 (Prereq Required)	*IT Internship (Recommended)* *IT Security Essentials* *Intermediate Programming in a Windows Environment* *Network Security II (CCNA CyberOps)* *Advanced Networking Technologies*						
3	CIS 232 (Prereq Required)	*Server Administration*						
4	CIS 233 (Spring only - Prereq Required)	*Enterprise Networking Advanced (CCNP1)*						
2	Liberal Arts and Sciences							
3	Elective							
64	**Minimum credits required for graduation**							

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

❖ COURSE PREREQUISITES:

Course	Prerequisite	Course	Prerequisite
CIS 133	CIS 131 (pre or corequisite)	CIS 151	CIS 122 or CIS 140 or CIS 143
CIS 134	CIS 133	CIS 178	Should be taken in last semester of student enrollment
CIS 135	CIS 131 or permission of instructor	CIS 232	CIS 131
CIS 136	CIS 135	CIS 233	CIS 138
CIS 139	CIS 134 or active CCENT certification with instructor permission	CIS 235	CIS 134 and CIS 135
CIS 140	CIS 122, MAT 108 or College Level Math Score >=60	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 or CIS 143 with C or better	MAT 127	MAT 096 within 4 years and 21 passed credits or MAT 097 within 4 years and 21 earned credits or MAT 108 within 4 years
CIS 150	CIS 140 or CIS 143	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 or CIS 143
3	Electives (See Note 1)	3	CIS 232
		3-4	MAT 127 or MAT 129 (See Note 2)

SECOND YEAR

Third Semester		Fourth Semester	
3	ENG 102-ENG 110	3	Social Science or Humanities
4	CIS 139	3	SPH 111
3	CIS 150	3	CIS Elective (See Note 3) - CIS 178 recommended or CIS 136 or CIS 144 or CIS 235 or CIS 246
3	CIS 151 (Fall only) or CIS 237 (Spring only)	4	CIS 233
3-4	SUNY GEN ED Natural Science Lab Science (See Note 2)	3	CIS 120
		2	Liberal Arts and Sciences (See Note 2)

NOTES:
1. MAT 108 is required (fills the Lib. Arts/Sciences requirement) for those students who wish to take MAT 129 or CIS 143.
2. If MAT 127 and a 4-credit lab science are chosen, the two liberal arts and sciences credit requirement is satisfied.
3. 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
- ❖ Mathematics (GEMA)
- ❖ Natural Sciences (GENS)
- ❖ Social Sciences (GESS)
- ❖ American History (GEAH)
- ❖ Western Civilization (GEWC)
- ❖ Other World Civilization (GEOC)
- ❖ Humanities (GEHU)
- ❖ The Arts (GETA)
- ❖ Foreign Languages (GEFL)
- ❖ Basic Communication (GEBC)