



Information Technology - Computer Networking

Program Information

Degree Type: AAS

Program Code: ITCN

Degree Worksheet PDF:  [2023_2024_itcn.pdf](#) [1]

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ITCN

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Microcredential: <http://www.sunyacc.edu/academics/microcredentials> [3]

The Networking program is intended for students who, upon graduating from SUNY Adirondack, wish to enter the workforce as networking assistants. The curriculum is designed to provide the student with a solid basis in the hardware, cabling, network security, and the fundamentals necessary to install and maintain a computer network. The curriculum is coordinated through the CISCO Networking Academy (on-campus) to assist the student in preparing to achieve the CISCO Certified Networking Associate (CCNA) industry certification. This certification is received upon passing the CCNA exam (off-campus). *Recommended High School Preparation: if available: computer hardware class, basic networking/LAN class.*

In addition to the CCNA, advanced students may be eligible to take Network Professional courses (CCNP2, CCNP3, and CCNP4). These courses, along with Advanced Routing (CCNP1), prepare students in achieving the Cisco Certified Networking Professional (CCNP) industry certification. This certification is received upon passing the CCNP exams (off-campus). *Recommended for High School graduates and individuals who achieved their CCNA certification prior to entering SUNY Adirondack.*

Cr.	Course Title	Course Code
1-2	FRESHMAN EXPERIENCE	HRD100 , HRD100A or HRD110
3	Introduction to College Writing	ENG101
3		SUNY GEN ED Basic Communication ENG102 , ENG103 , ENG104 , ENG105 , ENG106 , ENG107 , ENG108 , ENG109 or ENG110



3-4	Introductory Statistics with Probability or Discrete Mathematics	MAT127 or MAT129
3-4	SUNY GEN ED Natural Sciences Lab Science	
3	Social Sciences or Humanities Liberal Arts and Sciences	
3	Introduction to Public Speaking	SPH111
3	Introduction to Networking	CIS131
4	Network Fundamentals (CCNA1)	CIS133 (Fall only - Prereq and Coreq Required)
4	LAN/WAN Technologies (CCNA2)	CIS134 (Spring only - Prereq Required)
3	Network Security I	CIS135 (Prereq and Coreq Required)
4	Enterprise Networking (CCNA3)	CIS139 (Fall only - Prereq Required)
3	Introduction to Programming in a Windows Environment or Introduction to Programming	CIS140 (Spring only - Prereq Required) or CIS143 (Prereq Required)
3	Topics in Computing	CIS150 (Prereq Required)
3	Server-Side Scripting or Database Management Systems	CIS151 (Fall only - Prereq Required) or CIS237 (Spring only - Prereq Required)
3	PC Hardware Fundamentals	CIS120
3	IT Internship (Recommended)	CIS Elective – choose one from:
	IT Security Essentials	CIS178 (Prereq required)
	Intermediate Programming in a Windows Environment	CIS136 (Prereq Required)
	Network Security II (CCNA CyberOps)	CIS144 , (Prereq Required)
	Advanced Networking Technologies	CIS235 , (Fall only – Prereq Required)
		CIS246 (Prereq Required)
3	Server Administration	CIS232 (Prereq Required)
4	Enterprise Networking Advanced (CCNP1)	CIS233 (Spring only - Prereq Required)
2	Liberal Arts and Sciences [4]	
3	Electives	
64	Minimum credits required for graduation	

Recommended First Year	
First Semester	
1-2	HRD100, HRD100A or HRD110
3	ENG101
3	CIS131
4	CIS133
3	Electives (See Note 1)



Second Semester	
4	CIS134
3	CIS135
3	CIS140 or CIS143
3	CIS232
3-4	MAT127 or MAT129 (See Note 2)
Recommended Second Year	
Third Semester	
3	ENG102-ENG110
4	CIS139
3	CIS150
3	CIS151 (Fall only) or CIS222 (Spring only)
3-4	SUNY GEN ED Natural Science lab science (See Note 2)
Fourth Semester	
3	Social Sciences or Humanities
3	SPH111
3	CIS Elective (See Note 3) - CIS 178 recommended or CIS 136 or CIS 144 or CIS 235 or CIS 246
4	CIS233
3	CIS120
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.

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[2] https://catalog.sunyacc.edu/sites/catalog.sunyadk.com/files/degreeworksheets/2023/2023_2024_itcn.pdf

[3] <http://www.sunyacc.edu/academics/microcredentials>

[4] <http://catalog.sunyacc.edu/academics/degree requirements>