Information Technology - Computer Networking

Program Information

Degree Type: AAS **Program Code:** ITCN

Degree Worksheet PDF: 2023 2024 itcn.pdf [1]

">Download

ITCN

2023_2024_itcn.pdf [2]

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.

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



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Introductory Statistics with Probability or Discrete Mathematics	
Mathematics 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 a 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) 5 Introduction to Programming in a CIS140 (Spring only - Prereq Windows Environment or Required) or CIS143 (Prereq Introduction to Programming Required) 5 Topics in Computing CIS150 (Prereq Required) 6 Server-Side Scripting or CIS151 (Fall only - Prereq	
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3 Server-Side Scripting or CIS151 (Fall only - Prereq	
Database Management Systems Required) or CIS237 (Spring	only
- Prereg Required)	,
PC Hardware Fundamentals CIS120 IT Internship (Recommended) CIS Elective – choose one fr	om:
IT Security Essentials	
CIS178 (Prereg required)	
Intermediate Programming in a Windows	
Environment CIS136 (Prereq Required)	
Ciored Medalica)	
Network Security II (CCNA CyberOps) CIS144, (Prereq Required)	
CISTAA, (Trefed Required)	
Advanced Networking Technologies	
Navariosa Notworking Foormologies	
CIS235, (Fall only - Prereq	
Required)	
intequired)	
CIS246 (Prereq Required)	
CI3240 (Prered Required)	
3 Server Administration CIS232 (Prereq Required)	
4 Enterprise Networking Advanced CIS233 (Spring only - Prerection)	
(CCNP1) (CCNP1) (Spring only - Prefer	1
, ,	
2 <u>Liberal Arts and Sciences</u> [4] 3 Electives	
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)



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CIS134	
CIS135	
CIS140 or CIS143	
CIS232	
MAT127 or MAT129 (See Note 2)	
ed Second Year	
ter	
ENG102-ENG110	
CIS139	
CIS150	
CIS151 (Fall only) or CIS222 (Spring only)	
SUNY GEN ED Natural Science lab science (See Note 2)	
ester	
Social Sciences or Humanities	
SPH111	
CIS Elective (See Note 3) - CIS 178 recommended or CIS 136 or	
CIS 144 or CIS 235 or CIS 246	
CIS233	
CIS120	
Liberal Arts and Sciences (See Note 2)	
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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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- [3] http://www.sunyacc.edu/academics/microcredentials
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