Computer Information Technology (CIT) - Networking Degree Map

STEM

CAREER DEGREE | M MIDDLETOWN CAMPUS

A Day in the Life ...

Network engineers play a critical role in maintaining a company's vital information network. It is well understood that any company's productivity and success is directly contingent on the availability and integrity of its IT infrastructure. Three major facets of the job include installing and configuring network hardware and software, testing new or upgraded services, and troubleshooting problems at levels ranging from datacenter issues to individual user issues.

Three Reasons to Consider CIT-Networking

1. Networking is integral to every company's IT operations. Skilled technicians are needed to maintain and support this vital component of the industry.
2. Entry-level technicians often progress rapidly in the business to become network engineers, analysts and designers.
3. Our Networking program of study was recently updated to offer a unique combination of programming, hardware, design and system administration courses.

Keep This in Mind

Because of the criticality of networks to any business, coverage must be provided 24x7, often requiring evening and weekend shifts. Network technicians should expect to work various shifts.

All of our networking teachers are Cisco Academy certified instructors.

Our Networking degree program includes a required one-semester internship. Students are placed by the College with area businesses in order to gain experience and learn in the workplace. Students must provide their own transportation.

It is important that students stay in close touch with their advisors and remain in sequence with the course of study because some of the classes are only offered once per academic year.

While the intent is to prepare the graduate for entry-level employment, some students do transfer to a four-year college or university to earn a higher degree in Networking or Data Center Operations.

Computer Information Technology - Networking Gateway Courses:

- Gateway courses: CIT 100, CIT 105
- Key courses: CIT 105, CIT 116, CFR 221, CIT 203

Courses above have been recommended by the department to help introduce you to the program (Gateway courses) and guide you in selecting courses that will provide you with the best academic experience (Key courses and suggested Electives).

First Semester

Course #	Course Name	P, C, P/C	Cr
ENG 101	Freshman English 1 (G10A [w] & G11A)	P	3
MAT 121	College Algebra (G1A)		3
CIT 105	Data Communication and Networking	P	3
CIT 117	Introduction to Unix/Linux	P	3
CSC 138	Introduction to Applied Logic Through Scripting (G11A)		3
COM 100*	Oral Communication (G10A [o])*	P	1
	Total Semester Credits		16

Milestones

During this semester, students should:

- Meet with your newly assigned "department" advisor to plan your second semester
- Consider joining the student-led Computer Club

Second Semester

Course #	Course Name	P, C, P/C	Cr
ENG 102	Freshman English 2 (G7A & G12A)	P	3
CIT 215	Website Management		3
CIT 112	Computer Hardware and Software	P	4
CIT 116	Networking 1	P	4
_____	Category E Social Science (G6A)	P	3

Course #	Course Name	P, C, P/C	Cr
	Total Semester Credits		17

Milestones

During this semester, students should:

- Meet with department advisor to plan third semester

Third Semester

Course #	Course Name	P, C, P/C	Cr
_____	SUNY Natural Sciences (G2A)**		4
CIT 103	Management Information Systems		3
CIT 203	Networking 2	P	4
CIT 218	Systems Analysis and Design	P, P/C	3
CIT 225	Database Fundamentals	P	3
	Total Semester Credits		17

Milestones

During this semester, students should:

- Prepare resume for next semester's internship
- Schedule time with Career Services Office to identify internship opportunities
- Meet with Department Chair to get approval for upcoming internship
- Narrow focus for post-graduate job search or, if continuing studies, research and apply to transfer schools

Fourth Semester

Course #	Course Name	P, C, P/C	Cr
_____	Social Science Elective***		3
CIT 206	Network Security	P	3
CIT 228	System Administration	P	3
CIT 230	Internship		3
_____	Restricted Elective****		3
	Total Semester Credits		15

Milestones

During this semester, students should:

- Apply for graduation
- Schedule mock interviews through the Career Services Office or the Department

TOTAL DEGREE CREDITS: 65

Notes

*COM 101 satisfies the requirement of COM 100

**Must be 4 credits

***Select from G3A (SUNY Social Science), G4A (SUNY US History & Gov) or G5A (SUNY World History)

****CSC 101, CIT 111, or department approval