

# Computer and Internetworking Technologies

## Computer Internetworking Technician Degree

**Degree:** Associate in Applied Science

**Total Required Credits for Degree:** 65 to 67

*Program Requirements:* 45 to 47

*Program Electives:* 8

*General Education Credits:* 12\*

**Code:** 3916

### About the Program

The Computer and Internetworking Technology (CIT) program offers a variety of degrees and certifications that provide the latest technology and hands-on training for individuals seeking entry-level positions in computer networking, such as network technicians, entry-level network administrators, computer support specialists or technical support specialists.

The program also offers technical professionals seeking job advancement an opportunity to upgrade their current networking skills by preparing them for industry certifications, including CompTIA A+, Network+ and Security+; Cisco, CCNA, CCNP, Wireless and CCSP; Microsoft MCP, MCSA, MCDDBA and MCSE; and Computer Forensics.

Working closely with community and industry leaders, College of DuPage continually updates program offerings to ensure that students have the skills and educational background required in the areas of system maintenance, networking and security, as well as in emerging technologies such as wireless, Voiceover IP and computer forensics.

Program web site: [www.cod.edu/cit](http://www.cod.edu/cit)

### Key First Semester Courses

CIT 1111	Computer and Hardware Maintenance.....	3
CIT 1121	Networking Basics.....	3
CIT 1122	Routers and Routing Basics.....	3
Engli 1101	English Composition I.....	3
Math 1431	Precalculus I.....	5

### Program Requirements

CIT 1100	PC Maintenance and Upgrading.....	2
CIT 1111	Computer and Hardware Maintenance.....	3
CIT 1112	Advanced System Maintenance.....	3
CIT 1121	Networking Basics.....	3
CIT 1122	Routers and Routing Basics.....	3
CIT 1123	Switching Basics and Intermediate Routing ..	3
CIT 1124	WAN Technologies.....	3
CIT 1635	Data Communications and Networks .....	3

CIT 1640	Security+.....	3
OR		
CIT 2251	CCNA Security.....	3
CIT 2110	Windows XP Professional.....	3
CIT 2120	Windows 2003 Server.....	3
CIT 2651	Computer Forensics I.....	3
OFTI 2600	Professional Development.....	3
Physi 1100	Physics.....	4
Math 1115	Technical Mathematics I.....	3
OR		
Math 1431	Precalculus I.....	5
<b>Total</b>		<b>45 to 47</b>

### Program Electives

Select 8 credits from any CIT class or any of the following courses:

CIS 1400	Programming Logic and Technique.....	4
CIS 1450	Introduction to Linux/UNIX Operating Systems.....	3
Elect 1100	Electricity and Electronics Fundamentals ....	2

### \*General Education Requirements

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. For the Computer and Internetworking Technologies degree, some General Education courses are already listed under program requirements. Therefore, students only need 12 General Education credits besides those listed under program requirements.

Use the *Student Planning Worksheet* or consult a list of General Education categories and courses for the A.A.S. degree to decide what needs to be taken. Links can be found on the Computer and Internetworking Technologies online program guide (go to [www.cod.edu/cit](http://www.cod.edu/cit).)

Under the specified General Education headings below, the following courses are recommended for the Computer and Internetworking Technician degree:

**Communications:** 6 credits required

*Recommended courses:* English 1101, Speech 1150

**Physical/Life Sciences:** 3 to 5 credits required

Select at least one course with a lab component.

*Required course:* Physics 1100 (already listed under Program Requirements)

**Mathematics:** 3 to 5 credits required

*Required courses:* Mathematics 1115 or 1431 (already listed under Program Requirements)

**Humanities and Fine Arts:** 3 credits required

*Recommended course:* See the *Student Planning Worksheet*.

**Social and Behavioral Sciences:** 3 credits required

*Recommended course:* See the *Student Planning Worksheet*.

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### **Additional A.A.S. Degree Requirements**

A minimum of 2 credits must be completed from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills category. Courses taken under Program Requirements, Program Electives or General Education can satisfy this requirement.

*Recommended course:* See the *Student Planning Worksheet*.

### **Advisers**

If you are considering this program as an area of study, consult with an adviser in this field:

	<b>Phone</b>
Tony Chen	(630) 942-2537
E-mail: chento@cod.edu	
Areas of interest: Cisco Certification, Networking, Security, VOIP, Wireless Technology	
Clyde Cox	(630) 942-2520
E-mail: coxclyde@cod.edu	
Areas of interest: CompTIA Certification, Networking	
Joanne Wagner	(630) 942-2692
E-mail: wagnerjo@cod.edu	
Areas of interest: Cisco Certification, Networking, Security	

### **For More Information**

Check with the Business and Technology Division, Berg Instructional Center (BIC), Room 2026, (630) 942-2592, for program-specific information.