Program Overview

Business and Social Sciences Division
Room T302, (847) 543-2047

NETWORK ADMINISTRATION AND SECURITY
( Associate in Applied Science) Plan 22CD

This degree program prepares students in the installation, configuration, deployment and administration of network servers and security protocols. Through the use of general education, business, and computer courses, this program provides an understanding of the network infrastructure, IT security environment, and digital forensics methodologies required of network and IT security professionals.

First Semester (Fall)........................................ 15-17
CIT 120 Introduction to Computers .......... 3
CIT 131 Windows Operating System .......... 3
CIT 132 Linux Operating System .......... 3
CIT 139 Cisco: Introduction to Networks .......... 3
AOS 122 Business Mathematics or
MTH 122 College Algebra or
MTH Elective (higher MTH 122)** .......... 3-5

Second Semester (Spring)................................. 15
CIT 133 LAN Administration or
CIT 230 Linux System Administration3 .......... 3
CIT 152 Network Security Fundamentals .......... 3
CIT 159 Cisco: Routing and Switching .......... 3
ELT 151 PC Hardware Fundamentals .......... 3

Summer Session.............................................. 3
BUS 121 Introduction to Business .......... 3

Third Semester (Fall)........................................ 15
CIT 252 Hardening the Infrastructure .......... 3
CIT 255 Server Virtualization Technologies .......... 3
CIT 256 Windows Forensic Analysis .......... 3
ENG 121 English Composition I .......... 3
PSY 121 Introduction to Psychology or
PSY 122 Industrial/Organizational Psychology .......... 3

Fourth Semester (Spring)................................. 16
CIT 253 Network Defense and Countermeasures .......... 3
CIT 254 Windows Directory Services .......... 3
CIT 258 Network Forensics .......... 4
CIT 272 Enterprise Messaging Administration .......... 3
Humanities or Fine Arts Elective** .......... 3

Summer Session.............................................. 3
CMM 111 Communication Skills or
CMM 121 Fundamentals of Speech or
CMM 128 Interviewing Practices .......... 3

Total Hours for AAS Degree ......................... 67-69

* To complete an A.A.S., students must meet General Requirements detailed in the current CLC catalog. Visit www.clcillinois.edu/catalog (Select Career Programs).
** Certain classes are only offered specific semesters. Check the course scheduling guide.
*** There are prerequisites for Math courses. If you do not meet the prerequisites, begin taking these courses this semester.
1 CIT 230 Linux System Administration is not offered regularly so you should enroll in it whenever it becomes available.
2 HUM 127 Critical Thinking, PHI 122 Logic, or PHI 125 Introduction to Ethics recommended.

NETWORK ADMINISTRATION AND SECURITY
(Certificate) Plan 22CK

The Network Administration and Security certificate prepares students for careers in designing and administering computer networks. In addition, coursework for this curriculum addresses how to keep networks secure from outside intrusion and procedures on securing evidence if network security has been breached.

CIT 131 Windows Operating System .......... 3
CIT 132 Linux Operating System .......... 3
CIT 133 Network Automation .......... 3
CIT 139 Cisco: Introduction to Networks .......... 3
CIT 151 LAN Administration or
CIT 230 Linux System Administration .......... 3
CIT 152 Network Security Fundamentals .......... 3
CIT 159 Cisco: Routing and Switches .......... 3
CIT 252 Hardening the Infrastructure .......... 3
CIT 253 Network Defense and Countermeasures .......... 3
CIT 254 Windows Directory Services .......... 3
CIT 255 Server Virtualization Technologies .......... 3
CIT 256 Windows Forensic Analysis .......... 3
CIT 258 Network Forensics .......... 4
CIT 272 Enterprise Messaging Administration .......... 3

Total Hours for Certificate ......................... 43

Note: Certain classes are only offered specific semesters. Check the course scheduling guide on the CIT webpage.

Typical Jobs

- Systems Administrator
- Network Engineer
- Information Technology (IT) Specialist
- Information Technology (IT) Director
- Local Area Network (LAN) Administrator
- Computer Specialist
- Data Security Administrator
- Information Systems Security Analyst
- Computer Security Specialist
- Personal Computer (PC) Analyst
- Computer Systems Technician

Salary and Job Outlook

For the latest information, visit www.mynextmove.org or the Bureau of Labor Statistics online at www.bls.gov. Gainful employment data is available at www.clcillinois.edu/gainfulemployment.
Industry Certifications
These degrees and certifications map to the following industry certifications:
• A+
• Security+
• Linux+
• Microsoft Certified Professional (MCP)
• Microsoft Certified Solutions Associate (MCSA)
• EnCEv7
• Cisco Certified Entry Networking Technician (CCENT)
• Cisco Certified Network Associate (CCNA)

Advising Notes
All prerequisites must be met.
1. The CIT A.A.S. degrees are not transferable degrees. However, students who want to transfer someday should take CMM 121, ENG 121, BUS 121, BUS 221, ACC 121, ACC 122, PSY 121, CIT 120 and either MTH 222, MTH 127 or MTH 224. These courses are most likely to transfer even though the degree will not.

2. Courses that meet the Social and Behavioral Science and Humanities electives can be found in the Programs of Instruction and Graduation Requirements section of the CLC Catalog under Career Programs Degree Requirements.

3. For information on course offerings, visit www.clcillinois.edu/programs/cit

Getting Started
Visit www.clcillinois.edu/admission for steps on how to register.