

## Associate in Applied Science and Career Certificates

### ELECTRONIC INFORMATION TECHNOLOGY

Engineering, Math and Physical Sciences Division  
Room T102, (847) 543-2044

#### ELECTRONIC INFORMATION TECHNOLOGY

(Associate in Applied Science) Plan 24ET

This degree provides the theoretical background and hands-on training needed to work in the information technology field as a network or computer systems administrator or network technician. The program concentrates on network hardware and software implementation and security, and includes hands-on courses in network testing and troubleshooting, wireless network security, Linux system administration, server development, and network design and deployment. This broad range of software and hardware competencies prepares the student to design, install and support local area networks, wide-area networks, network segments and Internet or intranet systems and provide daily on-site administrative support for software users in a variety of work environments.

To complete an AAS, students must meet the General Requirements on page 93. In addition, students should select General Education electives (\*) from those listed on page 94. All course prerequisites must be met.

<b>Required General Education Coursework</b> .....	<b>15</b>
CMM 121 Fundamentals of Speech.....	3
EIT 110 Topics in Mathematics for Computer and Electronic Technicians .....	3
ENG 120 Technical Composition I .....	3
HUM 127 Critical Thinking .....	3
Social Science Elective* .....	3

<b>Required Network Engineering Technology Coursework</b> .....	<b>30</b>
EIT 210 Data and Network Communication .....	4
EIT 211 Network Design and Analysis .....	4
EIT 212 Applied Linux.....	3
EIT 230 Secure Wireless Networking .....	3
EIT 232 Linux Server Implementation.....	3
EWE 220 Cooperative Work Experience I <b>or</b> Technical Elective .....	3
++ EWE 270 Cooperative Work Experience II <b>or</b> EIT 111 Digital and Network Fundamentals .....	4
++ Technical Electives.....	6

<b>Additional Required Coursework</b> .....	<b>20</b>
CIT 120 Introduction to Computers .....	3
CIT 131 Windows Operating Systems .....	3
CIT 151 LAN Administration.....	3
EET 170 DC Circuit Fundamentals.....	2
ELT 151 PC Hardware Fundamentals.....	3
ELT 152 PC Peripherals and Troubleshooting .....	3
# Computer Language Elective .....	3

**Total Hours for AAS Degree** .....

++ Select from CIT, CNA, ELC/ELT, EIT or other departmentally approved electives.  
# Select from the following electives: CIT 134, CIT 135, CIT 136, CIT 137, CIT 141, CIT 170, CIT 171, MCS 124, MCS 140, MCS 141 or other departmentally approved electives.

#### LINUX SYSTEM ADMINISTRATION (Certificate) Plan 24ES

CNA 111 CISCO Networking I <b>or</b>	
ELT 151 PC Hardware Fundamentals.....	3
EIT 111 Digital and Network Fundamentals .....	3-4
EIT 212 Applied Linux.....	3
EIT 232 Linux Server Implementation.....	3
ELT 152 PC Peripherals and Troubleshooting .....	3

**Total Hours for Certificate** .....

#### FIBER OPTICS TECHNICIAN (Certificate) Plan 24EV

This certificate program is designed to provide students the hands-on experience and knowledge needed to prepare for industry certification in fiber optics technology and to find entry level employment in network technology and telecommunications. Additionally, this certificate may be used to broaden the experiences of skilled network and systems administrators to include fiber optic analysis, installation and testing.

EIT 111 Digital and Network Fundamentals .....	4
EIT 116 Fiber Optic Fundamentals .....	3

**Total Hours for Certificate** .....

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**WIRELESS NETWORKING SECURITY  
(Certificate) Plan 24EU**

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This certificate provides the hands-on and theoretical experiences a network administrator needs to be able to design, test and maintain secure wireless and mixed media networks. This program also prepares students to pursue certifications in the field of wireless networking.

EIT 111	Digital and Network Fundamentals .....	4
EIT 210	Data and Network Communication .....	4
EIT 230	Secure Wireless Networking .....	3
EIT 250	Wireless Data Communications .....	3

**Total Hours for Certificate.....14**

For more information on recommended courses or program specific advising, contact the following faculty members or the Engineering, Math and Physical Science division at (847) 543-2044:

Michelle Leonard      Fred Scheu