

## Associate in Applied Science and Career Certificates

### ELECTRONIC SYSTEMS TECHNOLOGY

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

#### ELECTRONIC SYSTEMS TECHNOLOGY (Associate in Applied Science) Plan 24EL

This degree provides advanced knowledge to students who install, repair and maintain a wide range of electronic systems, including industrial control systems, radio and television communication systems, personal computer systems, and consumer audio and video home entertainment systems.

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.

#### Required General Education Coursework .....15

CMM 121	Fundamentals of Speech <i>or</i>	
CMM 122	Business and Professional Speaking <i>or</i>	
CMM 123	Dynamics of Small Group Discussion <i>or</i>	
CMM 128	Interviewing Practices .....	3
EIT 110	Topics in Math for Computers and Electrical Technicians .....	3
ENG 120	Technical Composition I <i>or</i>	
ENG 121	English Composition I .....	3
	Humanities or Fine Arts Elective* .....	3
	Social Science Elective* .....	3

#### Required EST Coursework .....42

EET 115	Electronic Laboratory Techniques .....	2
EET 170	DC Circuit Fundamentals.....	2
EET 213	Introduction to Digital Electronics.....	4
EET 230	Electrical Machinery .....	3
ELC 172	Applied AC Circuit Theory .....	2
ELT 171	Industrial Control Systems .....	3
ELT 172	Applied Communication Circuits.....	3
ELT 173	Applied Analog Circuits.....	3
ELT 214	Microwave Systems and Measurements .....	3
EST 210	Maintenance and Repair of PC Systems .....	3
EST 211	Electronics Systems <i>or</i>	
EST 215	Radar Systems .....	3
EST 212	Systems Control Theory .....	3
EST 213	Digital Telecommunications.....	4
EST 214	Digital Telecommunications II <i>or</i> Technical Electives (see next page) .....	4

#### Additional Required Coursework .....3

ECO 110	Economics for Business and Industry <i>or</i>	
ECO 221	Principles of Macroeconomics .....	3

#### Total Hours for AAS Degree .....60

#### Technical Electives

Select 4 hours from the list below:

CNA 111	Cisco Networking.....	3
CNA 112	Cisco Networking II .....	3
CNA 113	Cisco Networking III .....	3
CNA 114	Cisco Networking IV .....	3
EET 230	Electrical Machinery .....	3
ELC 114	Motor and Machine Control.....	3
ELC 171	Programmable Logic Controllers .....	3
ELC 215	Power Transmission and Distribution .....	4
ELT 151	PC Hardware Fundamentals.....	3
ELT 152	PC Peripherals and Troubleshooting .....	3
ROB 111	Introduction to Robotics.....	3

For more information on recommended courses or program specific advising, contact faculty member Fred Scheu or the Engineering, Math and Physical Science division at (847) 543-2044.