

Associate in Applied Science and Career Certificates

ELECTRICAL ENGINEERING TECHNOLOGY

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

ELECTRICAL ENGINEERING TECHNOLOGY (Associate in Applied Science) Plan 24ED

Students are prepared to work in research, electronic layout, instrumentation, design, field service, communication and service laboratories.

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	16
CMM 121 Fundamentals of Speech.....	3
ENG 120 Technical Composition I	3
MTH 122 College Algebra	4
PHI 122 Logic.....	3
SOC 121 Introduction to Sociology.....	3
Required EET Coursework	32
EET 113 Solid State Electronics	4
EET 115 Electronic Laboratory Techniques	2
EET 170 DC Circuit Fundamentals.....	2
EET 173 DC Analysis-Network Theorems	2
EET 174 AC Fundamentals	2
EET 175 AC Analysis & Circuit Theorems	2
EET 211 Advanced Solid State Electronics	4
EET 212 Electronic Communication Systems	3
EET 213 Introduction to Digital Electronics.....	4
EET 216 Microprocessors I.....	4
EET 230 Electrical Machinery	3
Additional Required Coursework	23
PSY 122 Psychology in Business and Industry.....	3
ECO 221 Principles of Macroeconomics <i>or</i>	
ECO 222 Principles of Microeconomics	3
MTH 123 Trigonometry	3
MTH 145 Calc. and Analytic Geometry I.....	5
MTH 146 Calc. & Analytical Geometry II	4
PHY 121 General Physics	5
Total Hours for AAS Degree	71

ELECTRONICS TECHNOLOGY (Certificate) Plan 24EF

A minimum of 35 semester hours of credit must be completed for the certificate. Although courses are generally selected from the following, other subjects may be taken as part of a program with division approval.

Minimum Required Coursework	35
Select a minimum of 31 hours from the list below:	
EET 113 Solid State Electronics	4
EET 170 DC Circuit Fundamentals <i>and</i>	
EET 173 DC Analysis-Network Theorems	4
EET 174 AC Fundamentals <i>and</i>	
EET 175 AC Analysis and Circuit Theorems	4
EET 211 Advanced Solid State Electronics	3
EET 212 Electronic Communications Systems.....	3
EET 213 Introduction to Digital Electronics.....	4
EET 216 Microprocessors I.....	4
ELT 111 Electronic Drafting	2
ELT 116 Technical Programming	3
ELT 217 Microprocessors II	3
MTH 117 Technical Mathematics I	3
MTH 118 Technical Mathematics II	4
PHY 120 Practical Aspects of Physics.....	4

ELECTRICAL/ELECTRONIC MAINTENANCE (Certificate) Plan 24EH

This program provides students with the skills necessary to perform trouble-shooting and maintenance procedures in industry. Students with experience in the field and demonstrating appropriate knowledge may be given advanced standing in the program.

EET 170 DC Circuit Fundamentals.....	2
ELC 113 Basic Instrumentation and Shop Practices	2
ELC 172 Applied AC Circuit Theory	2
ELT 117 Industrial Digital Electronics I.....	3
ELT 118 Industrial Digital Electronics II	3
ELT 171 Industrial Control Systems	3
ELT 172 Applied Communication Systems	3
ELT 173 Applied Analog Circuits.....	3
ENG 120 Technical Composition I <i>or</i>	
ENG 121 English Composition I	3
MTH 114 Applied Mathematics I <i>or</i>	
MTH 117 Technical Mathematics I	3
Technical Elective (see below)	3-4

Total Hours for Certificate

30-32

Technical Electives

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

**PC TECHNICIAN
(Certificate) Plan 22CI**

The PC Technician certificate provides career training for students entering the computer technical support field. The skill sets involved in this certificate provides the training for individuals who install, maintain, upgrade and repair PC hardware and software. This certificate helps prepare the student for the A+ Certification exam. Proficiency credit through examination is available for CIT 120 and EET 170.

CIT 120	Introduction to Computers.....	3
CIT 130	Operating Systems for A+ Certification.....	3
EET 170	DC Circuit Fundamentals.....	2
ELT 151	PC Hardware Fundamentals.....	3
ELT 152	PC Peripherals and Troubleshooting.....	3

Total Hours for Certificate.....14

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.