

Electro-Mechanical Technology

Electrician Apprenticeship Degree

Degree: Associate in Applied Science
Total Required Credits for Degree: 59 to 68
Program Requirements: 41 to 50
Program Electives: 0 to 6
General Education Credits: 18 to 22
Code: 3958

About the Program

This program, in partnership with the Joint Apprenticeship and Training Committee (JATC) of the International Brotherhood of Electrical Workers (IBEW) Local Union, is open only to individuals admitted into the Electrician Apprenticeship Program of the IBEW. This degree will fulfill the classroom component of the IBEW/JATC apprenticeship experience.

Program web site:
www.cod.edu/academic/acadprog/occ_voc/ElecMTec.htm

Key First Semester Courses

Consult with a faculty adviser for the recommended course list.

Program Requirements

Elect 1100	Electricity and Electronics Fundamentals	2
Elect 1101	Circuits I.....	3
Elect 1120	Electronic Documentation	2
Elect 1130	Electronics Materials and Fabrication	2
Elect 1141	Digital Fundamentals	3
Elect 1151	Electronic Devices and Applications I	4
Elect 2220	Electronic Instruments, Measurements and Control	3
Elmec 1110	Motor Fundamentals.....	3
Elmec 1130	Industrial Electricity.....	3
Elmec 1150	National Electrical Code	3
Elmec 2630	Systems Troubleshooting	2
Manuf 1101	Industrial Design/CAD.....	3
Manuf 1190	Introduction to Programmable Logic Controllers.....	3
Manuf 2280	Industrial Safety.....	2
Co-op 2860	Cooperative Education/Internship (Occupational)	1 to 4
Co-op 2865	Cooperative Education/Internship — Advanced (Occupational).....	1 to 4
Co-op 2870	Cooperative Education/Internship (Transfer).....	1 to 4
Total		41 to 50

Electives

Select 0 to 6 credits from any 1000- or 2000-level courses.

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.

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 Electro-Mechanical Technology program guide (www.cod.edu, click on “Academics” and choose this program from the drop-down menu).

Under the specified General Education headings below, the following courses are recommended for the Electrician Apprenticeship degree:

Communications: 6 credits required
Recommended courses: See the *Student Planning Worksheet*.

Physical/Life Sciences: 3 to 5 credits required
 Select at least one course with a lab component.
Recommended course: See the *Student Planning Worksheet*.

Mathematics: 3 to 5 credits required
Recommended course: See the *Student Planning Worksheet*.

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*.

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.

Required course: Elmec 1130 (already listed under Program Requirements)

Adviser

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

	Location	Phone
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