

PROGRAMS

ELECTRICAL SYSTEMS TECHNOLOGY

Architecture and Construction programs prepare individuals to apply technical knowledge and skills related to the fields of architecture, construction, and associated professions. This program includes instruction that can be applied to a variety of careers in the design-construction industry, including employment with architectural and engineering firms, residential and commercial builders/contractors, and other construction-related occupations.

The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial and industrial facilities.

Course work, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Diploma D35130

Fall Semester 1

		Lec	Lab	Clinic	Credit
ELC-112	DC/AC Electricity	3	6	0	5
ELC-113	Residential Wiring	2	6	0	4
ELC-117	Motors and Controls	2	6	0	4
ELC-125	Diagrams and Schematics	1	2	0	2
ELC-128	Introduction to Programmable Logic Controller	2	3	0	3
				Total:	18

Spring Semester 1

		Lec	Lab	Clinic	Credit
ELC-114	Commercial Wiring	2	6	0	4
ELC-118	National Electrical Code	1	2	0	2
ELC-121	Electrical Estimating	1	2	0	2
ELN-231	Industrial Controls	2	3	0	3
Math Option	Mathematics Options Listed Below	2	2	0	3
				Total:	14

Fall Semester 2

		Lec	Lab	Clinic	Credit
Communication Option	Communication Options Listed Below	3	0	0	3
ELC-115	Industrial Wiring	2	6	0	4
ELC-215	Electrical Maintenance	2	3	0	3
				Total:	10

Total Credit Hours: 42

Mathematics: Choose at least 3 hours from the following courses:

		Lec	Lab	Clinic	Credit
MAT-110	Mathematical Measurement and Literacy	2	2	0	3
MAT-143	Quantitative Literacy	2	2	0	3

Communications: Choose One of the following:

		Lec	Lab	Clinic	Credit
COM-120	Intro to Interpersonal Communication	3	0	0	3
COM-231	Public Speaking	3	0	0	3
ENG-110	Freshman Composition	3	0	0	3
ENG-111	Writing and Inquiry	3	0	0	3

Certificates**Electrical Systems Technology Certificate (C35130)****Fall Semester 1**

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ELC-113	Residential Wiring	2	6	0	4
ELC-117	Motors and Controls	2	6	0	4
ELC-125	Diagrams and Schematics	1	2	0	2
ELC-128	Introduction to Programmable Logic Controller	2	3	0	3
				Total:	18

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