

# Residential Electrical Design Certificate

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This two semester certificate is designed to provide the student basic skills for employment as an electrical design technician for single family and multi-family housing. The electrical design process for residential construction includes design for single-phase electrical services, feeders, branch circuits, appliances, lighting, communication/data and fire safety.

## Suggested/Sample Course Sequence

The sequence taken by the student may vary depending on prerequisites, course availability, and personal/ professional responsibilities.

(Major Code 5070; State CIP Code 46.0302)

- Electrical Technology (<http://www.jccc.edu/electrical-tech>)

### First Semester

DRAF 120	Introduction to Drafting	2
DRAF 130	Introduction to CAD Concepts - AutoCAD*	3
ELTE 122	National Electrical Code I	4
ELTE 123	Electromechanical Systems	4
ELTE 125	Residential Wiring Methods*	4
Total Hours		17

### Second Semester

DRAF 129	Interpreting Architectural Drawings	2
DRAF 230	Intermediate CAD: AutoCAD*	3
ELEC 123	Smart House Technology	3
ELTE 202	Electrical Estimating*	3
Total Hours		11

**Total Program Hours: 28**