



**MITCHELLTECH**

## **Electrical Construction & Maintenance**

- Hands-on learning in both residential and commercial lab settings
- Fundamental knowledge working with the National Electrical Code (NEC) standards
- Highly experienced instructors
- Specialty areas include PLCs, industrial controls, fiber, motors, and more
- Graduates earn 2,000 apprenticeship hours
- Excellent starting wages



**JOB PLACEMENT RATE: 100%\***

**TUITION/FEES/LAPTOP: \$19,575**

*Book and tool costs not included.*

\*Placement data is gathered through graduate surveys, faculty-collected data, and phone surveys started after six months of graduation. In 2024, 49 of the 50 graduates are represented in the data. Employment rate is figured by: (graduates employed)/(responding graduates who are seeking employment).

For information regarding licensure in South Dakota and other states, please visit our website at <https://www.mitchelltech.edu/programs/on-campus/construction-manufacturing-technologies/electrical-construction-maintenance/requirements>

# **GET READY**



**605.995.3025**  
**mitchelltech.edu**

## Award: AAS Degree

First Semester		Semester Credits
ECM	101	Electrical Fundamentals..... 4
ECM	121	Electrical Drawing ..... 4
ECM	151	Basic Electrical Lab ..... 5
OSHA	101	OSHA 10 Construction.....1
SSS	100	Student Success.....1
		Math Elective ..... 3
		General Education Elective ..... 3
		21

Second Semester		Semester Credits
ECM	103	Designing Electrical Systems ..... 3
ECM	122	Residential Blueprint & Code ..... 3
ECM	149	Basic Conduit Bending ..... 2
ECM	157	Wiring Lab..... 4
CIS	105	Introduction to Computers..... 3
		General Education Elective ..... 3
		18

Third Semester		Semester Credits
ECM	211	Power Distribution .....1.5
ECM	231	Electronic Circuits ..... 2
ECM	251	Commercial/Industrial Wiring Lab ..... 4
ECM	252	Industrial Controls ..... 3
ECM	255	Control Lab I.....1.5
ECM	259	Programmable Logic Controls ..... 3
		Written Communications Elective ..... 3
		18

Fourth Semester		Semester Credits
ECM	202	Motor Theory Maintenance ..... 2
ECM	221	Commercial Blueprint Reading.....2.5
ECM	235	Structured Cabling..... 4
ECM	244	VFD Motor Drives .....1
ECM	253	Advanced Control Systems .....2.5
ECM	257	Advanced Control Lab II ..... 2
ECM	261	Adv. Programmable Logic Controls.....3.5
CPR	100	First Aid, CPR AED ..... 0.5
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**Total Credits Required to Graduate: 75**



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