

WESTERN DAKOTA TECH

ELECTRICAL TRADES – AUTONOMOUS EQUIPMENT TECHNICIAN

Certificate, 24-30 Credit Hours, 9-Month Program

The Electrical Trades – Autonomous Equipment Technician certificate program provides in-depth instruction in the skills required to install, commission, and maintain electrical and mechanical systems. The Autonomous Equipment Technician will bridge the gap between basic mechanical systems and advanced IT systems. Principles of electricity, networking, welding, and mechanical skills will provide a foundation for various autonomous systems.

Course	No.	Course Title	Credits
Technical Requirements			
CIS	131	NETWORKING TECHNOLOGIES I	3
CT	110	CONSTRUCTION SAFETY/OSHA	3
IEL	105	INTRODUCTION TO INDUSTRIAL ELECTRONICS	4
MEC	105	FUNDAMENTALS OF AUTONOMOUS EQUIPMENT APPLICATION	3
MEC	130	MECHANICAL BASICS	3
MEC	150	AUTONOMOUS TECHNOLOGY	6
MEC	199	INTERNSHIP (OPTIONAL)	6
WDM	100	WELDING AND FABRICATION FOR GENERAL APPLICATIONS	2
Total			24-30

Semester Breakdown Certificate

First Semester			Second Semester		
		CR			CR
CIS 131	Networking Technologies I	3	MEC 150	Autonomous Technology (1 st 8 weeks)	6
CT 110	Construction Safety/OSHA	3	MEC 199	Internship (2 nd 8 weeks) <i>optional</i>	6
IEL 105	Introduction to Industrial Electronics	4			
MEC 105	Fundamentals of Autonomous Equipment Application	3			
MEC 130	Mechanical Basics	3			
WDM 100	Welding and Fabrication for General Applications	2			
Total Credit Hours		18	Total Credit Hours		6-12

If you are or have been convicted, pleaded guilty or no contest to, or received a suspended imposition of sentence for a felony or certain misdemeanors, you are advised that you may not be able to complete all course requirements for your chosen program, you may be prevented from taking required certification/licensure examinations in your chosen program field, and you may be prevented from gaining employment in your program field.