



MITCHELLTECH

Automation Controls/SCADA

- Unique program using computers to collect data and manage automated systems
- State-of-the-art labs incorporating high-level technology with real world applications
- Curriculum includes remote control switching devices, smart metering systems, robotics and more
- Third year Automation Engineering option available
- High starting salaries in high demand occupations



JOB PLACEMENT RATE: 100%*

TUITION/FEES/LAPTOP: \$20,033

Book and tool costs extra.

*Placement data is gathered through graduate surveys, faculty-collected data, and phone surveys started after six months of graduation. In 2023, 15 of the 15 graduates are represented in the data. Employment rate is figured by: (graduates employed)/(responding graduates who are seeking employment).

BE THE BEST.

605-995-3025
mitchelltech.edu

Award: AAS Degree

First Semester (Fall)		Semester Credits
EC	105	Data Cabling 3
EC	121	AC/DC Analysis 4
IST	156	Information Security I 2
MATH	162	Digital Math 3
SD	100	Introduction to Programming 2
SD	157	SCADA Electronics Lab 3
SSS	100	Student Success 1
		18

Second Semester (Spring)		Semester Credits
CIS	107	Spreadsheet Concepts 3
EC	113	Electronics Theory 3
SD	135	Introduction to Ethernet Networks 3
SD	136	Programming for SCADA 3
SD	142	Control Circuit Analysis 4
OSHA	100	OSHA 10 General 1
		17

Third Semester (Summer)		Semester Credits
SD	120	Introduction to Motor Controls 3
SD	159	Programmable Logic Controllers 3
SD	160	Industrial Wiring 3
		Communications Elective 3
		12

Fourth Semester (Fall)		Semester Credits
IST	230	Data Visualization 4
SD	225	Intro to SCADA Software 4
SD	229	Networking Concepts 3
SD	259	Adv. Programmable Logic Controllers 4
		Social Science Elective 3
		18

Fifth Semester (Spring)		Semester Credits
SD	205	Process Controls 3
SD	239	Advanced Industrial Networking 3
SD	270	SCADA Testing Control Lab 7
		Behavioral Science Elective 3
		16

Total Credits Required to Graduate: 81

Optional Third-Year Automation Engineering AAS:

Sixth Semester (Fall)		Semester Credits
WMT	201	Quality & Productivity Improvement 2
WMT	230	Welding Robotic Lab 3
WMT	231	Manual Machining Lab 3
WMT	240	Manufacturing Programming & Installation 3
		11

Seventh Semester (Spring)		Semester Credits
WMT	250	Laser Cutting Technology 3
WMT	251	CNC Machining Station Lab 3
WMT	260	Advanced Machining 4
CPR	100	First Aid, CPR AED 0.5
		10.5