



Utah System of Higher Education
The Gateway, Salt Lake City, UT 84101
801-646-4784

| Control Systems and Robotics | | | |
|--|---|---------|-------------|
| Technical Certificate (Catalog Year: 2026) | | | |
| Foundational Courses (14 Credits / 420 Clock-Hours) | | | |
| | | Credits | Clock-Hours |
| TECE 1000 | Industrial Networking Basics | 1 | 30 |
| TECE 1050 | Vision Systems Basic | 1 | 30 |
| TECE 1100 | Programmable Logic Controllers II | 3 | 90 |
| TECE 1150 | Human Machine Interface (HMI) Programming | 2 | 60 |
| TECE 1200 | Industrial Networking II | 2 | 60 |
| TECE 1250 | Servo Motors and Drives | 1 | 30 |
| TECE 1800 | Integration Capstone | 4 | 120 |
| Supplemental Courses Varies by Institution | | | |
| Bridgerland (6 Credits / 180 Clock-Hours) | | | |
| | | Credits | Clock-Hours |
| TECE 1300 | Programmable Logic Controllers III | 3 | 90 |
| TECE 1500 | FANUC Basic Programming | 1 | 30 |
| TECE 1550 | FANUC ROBOGUIDE Simulation Software | 2 | 60 |
| TECE 1620 | Robot Vision and Safety | 1 | 30 |
| TECE 1700 | FANUC Advanced Programming | 1 | 30 |
| TECE 2800 | Project Based Learning in Controls | 1 | 30 |
| Davis (6 Credits / 180 Clock-Hours) | | | |
| | | Credits | Clock-Hours |
| TECE 1420 | Programmable Logic Controller Platforms | 1 | 30 |
| TECE 1440 | Human Machine Interface (HMI) Platforms | 1 | 30 |
| TECE 1460 | Robot Platforms | 1 | 30 |
| TECE 1470 | Robot Simulation Software | 2 | 60 |
| TECE 1500 | FANUC Basic Programming | 1 | 30 |
| TECE 1620 | Robot Vision and Safety | 1 | 30 |
| TECE 1700 | FANUC Advanced Programming | 1 | 30 |
| TECE 1720 | Controls Integration | 3 | 90 |