



UTAH SYSTEM OF  
HIGHER EDUCATION

**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