



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

Controls Engineering Technology			
Certificate of Completion (Catalog Year: 2025)			
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 1320	Vision Systems Advanced	1	30
TECE 1420	Programmable Logic Controller Platforms	1	30
TECE 1440	Human Machine Interface (HMI) Platforms	1	30
TECE 1460	Robot Platforms	1	30
TECE 1480	Vision Platforms	1	30
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 1750	Manufacturing Analytics	2	60
TECE 2901	Special Applications for Controls	6	180
TECE 2999	Controls Engineering Externship	6	270