



# Utah System of Higher Education

The Gateway, Salt Lake City, UT 84101

801-646-4784

## Curriculum Evaluation

## Controls Engineering Technology

*Certificate of Completion (Catalog Year: 2024, Required Hours: 600, Credits: 20)*

### Foundational Courses (Required Hours: 420, Credits: 12)

#### Aligned (Required Hours: 420, Credits: 14)

		Credits	Hours	Modules	Prerequisite Course Number(s)
TECE 1000	Industrial Networking Basics	1.00	30.00	0	
TECE 1050	Vision Systems Basic	1.00	30.00	0	
TECE 1100	Programmable Logic Controllers 2	3.00	90.00	0	
TECE 1150	Human Machine Interface (HMI) Programming	2.00	60.00	0	
TECE 1200	Industrial Networking Lab	2.00	60.00	0	
TECE 1250	Servo Motors and Drives	1.00	30.00	0	
TECE 1800	Integration Capstone	4.00	120.00	0	

#### Non-Aligned (Elective) (Required Hours: 180, Credits: 6)

		Credits	Hours	Modules	Prerequisite Course Number(s)
TECE 1300	Programmable Logic Controllers 3	3.00	90.00	0	
TECE 1320	Vision Systems Advanced	1.00	30.00	0	
TECE 1420	Programmable Logic Controller Platforms	1.00	30.00	0	
TECE 1440	HMI Platforms	1.00	30.00	0	
TECE 1460	Robot Platforms	1.00	30.00	0	
TECE 1480	Vision Platforms	1.00	30.00	0	
TECE 1500	FANUC Basic Programming	1.00	30.00	0	
TECE 1550	FANUC ROBOGUIDE Simulation Software	2.00	60.00	0	
TECE 1620	Robot Vision and Safety	1.00	30.00	0	
TECE 1700	FANUC Advanced Programming	1.00	30.00	0	
TECE 1750	Manufacturing Analytics	2.00	60.00	0	
TECE 2901	Special Applications for Controls	6.00	180.00	0	