



Utah System of Higher Education

The Gateway, Salt Lake City, UT 84101

801-646-4784

Curriculum Evaluation		Automation Technology			
<i>Certificate of Completion (Catalog Year: 2025, Required Hours: 630, Credits: 21)</i>					
Foundational Courses (Required Hours: 630, Credits: 21)					
<i>Foundational Courses (Required Hours: 630, Credits: 21)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 1010	Essential Skills and Safety	3.00	90.00	0	
TEAM 1020	Pneumatics	2.00	60.00	0	
TEAM 1030	Hydraulics	2.00	60.00	0	
TEAM 1040	Industrial Mechanics	3.00	90.00	0	
TEAM 1050	Electrical Systems	2.00	60.00	0	
TEAM 1060	Motor Controls	3.00	90.00	0	
TEAM 1070	Programmable Logic Controllers	4.00	120.00	0	
TEAM 1080	Applied System Diagnostics	2.00	60.00	0	
Supplemental Courses Varies by Institution (Required Hours: 0, Credits: 0)					
<i>Bridgerland (Required Hours: 270, Credits: 9)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 1005	Computer Tools for Technology	1.00	30.00	0	
TEAM 1100	Electric Motors and Drives	1.00	30.00	0	
TEAM 1110	Introduction to Industrial Robotics	2.00	60.00	0	
TEAM 1120	3D Modeling	2.00	60.00	0	
TEAM 1125	Solidworks CSWA Certification	1.00	30.00	0	
TEAM 1200	HVAC Refrigeration	3.00	90.00	0	
TEAM 1300	Building Control Panels	3.00	90.00	0	
TEAM 1400	GD&T Blueprint Reading	2.00	60.00	0	
TEAM 1500	Instrumentation Process Control	3.00	90.00	0	
TEAM 1700	Introduction to Studio 5000	1.00	30.00	0	
TEAM 1900	Automated Technology Externship	4.00	180.00	0	
TEET 1040	Electronics Assembly and Soldering	1.00	30.00	0	
TEET 1060	DC Electronics	4.00	120.00	0	
TEET 1070	AC Electronics	4.00	120.00	0	
TEET 1100	Microcontrollers I	2.00	60.00	0	
TEET 1105	Microcontrollers II	2.00	60.00	0	
TEMT 1005	Machining for Manufacturing Trades	3.00	90.00	0	
TEWT 1005	Welding Overview	3.00	90.00	0	
TEWT 1105	Welding Qualifications	3.00	90.00	0	
<i>Davis (Required Hours: 270, Credits: 9)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 1015	Electronic Fundamentals for Industrial Automation	4.00	120.00	0	
TEAM 1105	Electric Motors and Drives	3.00	90.00	0	
TEAM 1135	FANUC IR Vision Systems	1.00	30.00	0	
TEAM 1137	Vision System Basics	1.00	30.00	0	
TEAM 1140	Industrial Robotics	3.00	90.00	0	

TEAM 1170	UAV Drone Technology	1.00	30.00	0	
TEAM 1200	HVAC Refrigeration	3.00	90.00	0	
TEAM 1250	Plumbing for Automation Technology	1.00	30.00	0	
TEAM 1300	Building Control Panels	3.00	90.00	0	
TEAM 1500	Instrumentation Process Control	3.00	90.00	0	
TEAM 1550	Process Technology Equipment and System Operators	3.00	90.00	0	
TEAM 1600	Microcontroller and Microprocessor Programming	2.00	60.00	0	
TEAM 1620	Electronics Assembly and Soldering	2.00	60.00	0	
TEAM 1710	Industrial Networking	3.00	90.00	0	
TEAM 1720	Controls Integration	3.00	90.00	0	
TEAM 1800	Renewable Energy	2.00	60.00	0	
TEAM 1810	Lean Manufacturing (Six Sigma)	1.00	30.00	0	
TEAM 1820	Semiconductor Devices	4.00	120.00	0	
TEAM 1830	Aerospace Technician	2.00	60.00	0	
TEAM 1910	Automated Externship	2.00	90.00	0	
TEAM 2000	Programmable Logic Controllers II	3.00	90.00	0	
TEAM 2020	Human Machine Interface Programming	3.00	90.00	0	
TEAM 2800	Final Project	1.00	30.00	0	
TEDR 1005	Interpreting Engineering Drawings	1.00	30.00	0	
TEMT 1001	Introduction to Machining	2.00	60.00	0	
TEWT 1008	Welding for Manufacturing	2.00	60.00	0	
WKSK 1500	Job Seeking Skills	1.00	30.00	0	
Mountainland (Required Hours: 270, Credits: 9)		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 1045	Mechanical Drives and Laser Alignment	2.00	60.00	0	
TEAM 1112	Rotating Machines	2.00	60.00	0	
TEAM 1115	Robotics I	1.00	30.00	0	
TEAM 1122	SolidWorks	1.00	30.00	0	
TEAM 1130	FANUC Robots	1.00	30.00	0	
TEAM 1240	Welding Simulator	1.00	30.00	0	
TEAM 1590	Introduction to Statistical Process Control	1.00	30.00	0	
TEAM 1615	Conduit Bending	1.00	30.00	0	
TEAM 1625	Electronics Soldering	1.00	30.00	0	
TEAM 1630	Sensors and Timers	1.00	30.00	0	
TEAM 1670	Wiring Boards	1.00	30.00	0	
TEAM 1730	Basic VFD Operation	1.00	30.00	0	
TEAM 1815	Lean and Six Sigma	1.00	30.00	0	
TEAM 1840	Introduction to Semiconductor Manufacturing	2.00	60.00	0	
TEAM 2030	HMI and PLC Troubleshooting	3.00	90.00	0	
TEAM 2145	Electro-Fluid Power	1.00	30.00	0	
TEAM 2300	Introduction to RF Plasma	1.00	30.00	0	
Ogden-Weber (Required Hours: 270, Credits: 9)		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 1145	Industrial Robotics	3.00	90.00	0	
TEAM 1650	Advanced Electrical Systems	3.00	90.00	0	
TEAM 1660	Advanced Motor Controls	3.00	90.00	0	
Salt Lake (Required Hours: 270, Credits: 9)		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 1520	Process Control Level/Flow	4.00	120.00	0	
TEAM 1580	Process Capstone Project	2.00	60.00	0	
TEAM 1610	Electric Motor Control Systems	4.00	120.00	0	

TEAM 1680	Motor Capstone Project	2.00	60.00	0	
TEAM 2010	Programmable Logic Controllers II	4.00	120.00	0	
TEAM 2025	HMI Programming	2.00	60.00	0	
TEAM 2040	PLC Troubleshooting	2.00	60.00	0	
TEAM 2080	PLC Capstone Project	1.00	30.00	0	
TEAM 2200	Troubleshooting Automated Systems	3.00	90.00	0	
<i>Snow (Required Hours: 270, Credits: 9)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 2045	Programmable Logic Controllers Troubleshooting	2.00	60.00	0	
TEAM 2100	Industrial Mechanics II	2.00	60.00	0	
TEAM 2110	Laser Shaft Alignment	2.00	60.00	0	
TEAM 2120	Vibration Analysis	2.00	60.00	0	
TEAM 2130	Industrial Rigging	2.00	60.00	0	
TEAM 2140	Industrial Hydraulics Troubleshooting	3.00	90.00	0	
TEAM 2150	Industrial Pumps	3.00	90.00	0	
<i>Southwest (Required Hours: 270, Credits: 9)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 1510	Process Control Components and Systems	2.00	60.00	0	
TEAM 1640	Electrical Systems II	1.00	30.00	0	
TEAM 2005	Programmable Logic Controllers II	3.00	90.00	0	
TEAM 2210	Fabrication and Repair	3.00	90.00	0	
<i>Tooele (Required Hours: 270, Credits: 9)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
TEAM 1260	Introduction to Manual Machining	5.00	150.00	0	
TEAM 1270	Welding for Automation Technology	4.00	120.00	0	