

ROBOTICS TECHNOLOGY

Faculty

Franklin, M. Graham

This program provides skills necessary to maintain robotic machines in industrial applications. It incorporates the basics of mechanical structure and motion; electronic control and vision; and programming of a robot. Many manufacturing and dangerous industrial applications are turning to the use of robotic machinery. Graduates of this program will provide a workforce that can maintain, repair and modify robots.

Associate of Applied Science Degree Robotics Technology

(Recommended Curriculum)

General Education (Minimum 17 credits)	Credits
General education coursework can be completed from within or outside of the major field of study.	
1. Exploration and Participation	
MATH 0930 Intermediate Algebra	4
2. Communication	
CO/M 1030 Interpersonal Communication	3
ENGL 0610 Basic Writing II	3
3. Relationship with the World	
POLS 1000 American and Wyoming Government.....	3
4. General Education Electives	3
Must be chosen from areas 1, 2, or 3 above.	
5. Physical Education	1

Major Requirements

COSC	1030	Computer Science I.....	4
DESL	1580	Basic Hydraulics.....	3
ELTR	1515	Basic AC/DC Electronics.....	2
ELTR	2815	Programmable Logic Controllers.....	4
ENTK	1510	Drafting I.....	4
MCHT	1610	Machine Tool Technology I.....	2
MCHT	1620	Machine Tool Technology II.....	2
ROBO	1610	Introduction to Robotics.....	2
ROBO	1615	Competition Robotics I.....	2
ROBO	1616	Robot Construction.....	2
ROBO	1617	Competition Robotics II.....	2
ROBO	1650	Electromechanics.....	3
ROBO	2580	LabView.....	2
ROBO	2590	Motion Control.....	4
ROBO	2595	Robot Systems.....	3
ROBO	2980	Cooperative Work Experience.....	2-6
ROBO	2990	Special Topics in Automation and Robotics	2
WELD	1700	General Welding.....	2.5
WELD	1820	GMAW and GTAW Welding.....	2.5

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Robotics Technology Certificate

(Certificate Requirements)

A minimum of 30 credits is required from the list below

Course	Credits
COSC 1030 Computer Science I.....	4
ELTR 1515 Basic AC/DC Electronics.....	2
ELTR 2595 Robot Systems.....	3
ELTR 2815 Programmable Logic Controllers.....	4
MCHT 1610 Machine Tool Technology I.....	2
MCHT 1620 Machine Tool Technology II.....	2
ROBO 1610 Introduction to Robotics.....	2
ROBO 1615 Competition Robotics I.....	2
ROBO 1616 Robot Construction.....	2
ROBO 1617 Competition Robotics II.....	2
ROBO 1650 Electromechanics.....	3
ROBO 2580 LabView.....	2
ROBO 2590 Motion Control.....	4
WELD 1700 General Welding.....	2.5
WELD 1820 GMAW and GTAW Welding.....	2.5

For specific graduation requirements see "Academic Policies" and "Degree Requirements."