

MECHATRONICS
ASSOCIATES OF APPLIED SCIENCE DEGREE
BACHELOR OF SCIENCE DEGREE
COLLEGE OF ENGINEERING AND TECHNOLOGY
2025-2026 CATALOG YEAR
800 WEST UNIVERISTY PARKWAY, OREM, UT 84058

MECHATRONICS ENGINEERING TECHNOLOGY AAS DEGREE				
COURSE #	COURSE TITLE	PRE/CO - REQUISITE	Offered	CR
FIRST SEMESTER (Fall Recommended)				
ENGL 1010	Introduction to Writing		F, S, SU	3
MAT 1050	College Algebra	Pre-req MAT 1010	F, S, SU	4
MECH 1010	Introduction to Mechatronics		F, S	3
MECH 1200	Electronics in Automation Design	Pre-req MAT 1010 Co-req MECH 1205	F	3
MECH 1205	Electronics in Automation Design Lab	Co-req MECH 1200	F	2
SEMESTER TOTAL				15
SECOND SEMESTER (Spring Recommended)				
EGDT 1071	3-Dimensional Modeling – Solid Works		F, S, SU	3
MECH 1300	Industrial Wiring for Mechatronic Systems	Pre-req MECH 1010 Co-req MECH 1305	S	1
MECH 1305	Industrial Wiring for Mechatronic Systems Lab	Pre-req MECH 1010 Co-req MECH 1300	S	2
MECH 2200	Semiconductors in Mechatronic Systems	Pre-req MECH 1200 Co-req MECH 2205	S	3
MECH 2205	Semiconductors for Mechatronic Systems Lab	Pre-req MECH 1205 Co-req MECH 2200	S	1
MECH 2300	Microcontroller Architecture and Programming	Pre-req MECH 1200 Co-req MECH 2305	S	3
MECH 2305	Microcontroller Architecture and Programming Lab	Pre-req MECH 1200 Co-req MECH 2300	S	2
SEMESTER TOTAL				15
THIRD SEMESTER (Fall Recommended)				
PHYS 2010/2015	You do not need to take this if you choose to only pursue the AAS-MECH	Pre-req MATH 1050	F, S, SU	5
Social Science	Refer to Wolverine Track		F, S, SU	3
MECH 2400	Mechanical Components	Pre-Req MECH 1010	F	4
MECH 2500	Intro to PLC's in Mechatronic Design	Pre-req MECH 2300/1200	F, S	2
MECH 2505	Intro to PLC's in Mechatronic Design	Pre-req MECH 2300/1200	F, S	2
MECH 2510	Fundamentals of Automation Control	Co-req AET 2250 Co-req MECH 2515	F	2

MECH 2515	Fundamentals of Automation Control Lab	Co-req MECH 2510	F	1
SEMESTER TOTAL				19
FOURTH SEMESTER (Spring Recommended)				
Physical Science	Refer to Wolverine Track		F, S, SU	3
Humanities			F,S	3
MECH 2550	Advanced PLC Programming and Applications	Pre-req MECH 2500 Co-req MECH 2555	S, F	2
MECH 2555	Advanced PLC Programming and Applications Lab	Co-req MECH 2550	S, F	2
MECH 2600	Intro to Fluid Power Systems	Pre-req MECH 2400 Co-req MECH 2605	S, F	2
MECH 2605	Intro to Fluid Power Systems Lab	Co-req MECH 2600	S, F	1
MECH 2700	Industrial Motor Control in Mechatronic Systems	Pre-req MECH 1300 Co-req MECH 2705	S	2
MECH 2705	Industrial Motor Control in Mechatronic Systems Lab	Co-req MECH 2700	S	2
SEMESTER TOTAL				17
TOTAL CREDITS REQUIRED FOR AN ASSOCIATES OF APPLIED SCIENCE DEGREE				61

MECHATRONICS ENGINEERING TECHNOLOGY BS DEGREE				
COURSE #	COURSE TITLE	PRE/CO - REQUISITE	Offered	CR
FIFTH SEMESTER (Fall Recommended)				
ENGL 2010	Intermediate Writing		F, S, SU	3
Personal, Professional, and Civil Growth	PHIL 205G (Highly recommended to meet GI Requirement)		F, S, SU	3
Fine Arts	Refer to Wolverine Track		F, S, SU	3
MECH 3220	Motion Control for Mechatronic Systems	Pre-req MECH 2550 Co-req MECH 3225	F	3
MECH 3225	Motion Control for Mechatronic Systems Lab	Co-req MECH 3220	F	1
MECH 3500	Industrial Robots	Pre-req MECH 2550 Co-req MECH 3505	F	2
MECH 3505	Industrial Robots Lab	Co-req MECH 3500	F	1
SEMESTER TOTAL				16
SIXTH SEMESTER (Spring Recommended)				
Biology Course	Refer to Wolverine Track		F, S, SU	3
MECH Elective	MECH 481R, 490R, or TECH 3010R		S	1-3
MECH 3300	Industrial Networks	Pre-req MECH 3220 Co-req MECH 3305	S	2
MECH 3305	Industrial Networks Lab	Co-req MECH 3300	S	1
MECH 3400	Statics and Strengths of Materials	Co-req MECH 3405	S	4
MECH 3405	Statics and Strengths of Materials Lab	Co-req MECH 3400	S	1

SEMESTER TOTAL				14
SEVENTH SEMESTER (Fall Recommended)				
American Institutions	Refer to Wolverine Track		F, S, SU	3
MECH Elective	MECH 481R, 490R, or TECH 3010R		F, S,	1-3
MECH 3570	GD&T, Design Analysis, Rapid Prototyping			3
MECH 3700	CNC Machines in Mechatronic Systems	Pre-req MECH 3220 Co-req MECH 3705	F	2
MECH 3705	CNC Machines in Mechatronic Systems Lab	Co-req MECH 3700	F	1
MECH 4300	Capstone I	Pre-req MECH 3220 Co-req MECH 4305	F	2
MECH 4305	Capstone I Lab	Co-req MECH 4300	F	1
SEMESTER TOTAL				14
EIGHTH SEMESTER (Spring Recommended)				
MECH 4400	Polymers, Composites, and Processes	Pre-req MECH 3400	S	3
MECH 4500	Advanced Automation Controls	Pre-req MECH 4300 Co-req MECH 4505	S	3
MECH 4505	Advanced Automation Controls Lab	Co-req MECH 4500	S	1
MECH 4800	Capstone II	Pre-req MECH 3570	S	3
SEMESTER TOTAL				10
TOTAL CREDITS REQUIRED FOR A BACHELOR OF SCIENCE DEGREE				120

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