

**Legend**

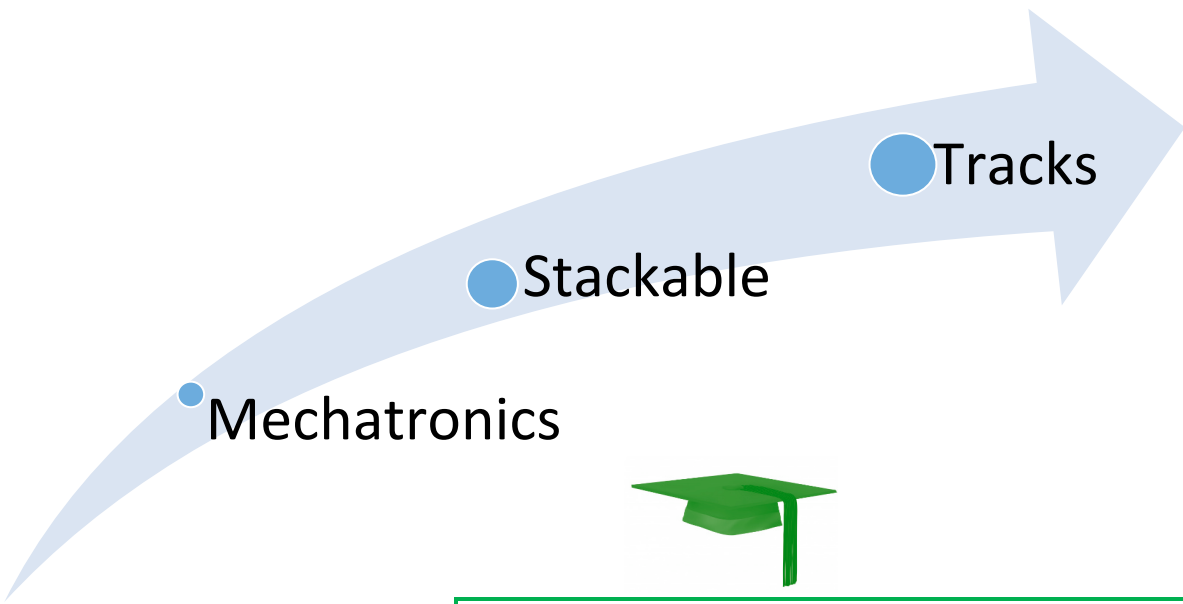
General Education
Major
Emphasis Core
Electives

**Associate of Applied Science  
Mechatronics Engineering Technology**

Total Credits: 63

**Bachelor of Science  
Mechatronics Engineering Technology**

Total Credits: 121



<b>Semester 4</b>		
MECH 2550	Advanced PLC Programming & Applications	4
MECH 2600	Introduction to Pneumatics	3
PHYS 2010	College Physics I	5
PHYS 2015	College Physics I Lab	3
ENGL 2310	Technical Communication	3
<b>Semester 3</b>		
MECH 2400	Mechanical Components	4
MECH 2500	Introduction to PLC's in Mechatronic Design	4
MECH 2510	Automation System Sensors	3
MGMT 1010 or	Introduction to Business or	3
ECON 1010	Economics as a Social Science	3
HLTH 1100 or	Personal Health and Wellness or	2
PES 1097	Fitness for Life	2
<b>Semester 2</b>		
MECH 1010	Introduction to Mechatronics	3
EGDT 1071	3 Dimensional Modeling-SolidWorks	3
MECH 2200	Semiconductors in Mechatronic Systems	4
MECH 2300	Microcontroller Architecture and Programming	4
ENGL 2020	Intermediate Writing - Science & Tech	3
<b>Semester 1</b>		
ENGL 1010	Introduction to Writing	3
MATH 1050	College Algebra	4
MECH 1200	Electronics in Automation Design	5
MECH 1250	Logic Fundamentals for Mechatronic Design	3
<i>MATH prerequisites</i>		
<b>Graduation Requirements:</b>		
1. Completion of 63 or more credit hours		
2. Overall grade point average of 2.0 (C) or above, with no core course below a C-.		
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.		
4. Completion of GE and specified departmental requirements.		
<b>*If long-range goal is BS in IS, take classes as outlined to stay on track for a 4-year graduation plan. Green= recommended electives for stackable into BS in Information Systems with the Geographic Information Systems emphasis.</b>		

<b>Semester 8</b>		
MECH 4400	Polymers, composites, and Processes	3
MECH 4500	Advanced Automation Controls	3
MECH 4800	Capstone Project	3
PHIL 2050	Ethics and Values	3
BIOLOGY	BIOL 1010 General Biology-recommended	3
<b>Semester 7</b>		
MECH 3570	GD&T, Design Analysis, Rapid Prototyping	3
MECH 4300	Advanced Pneumatic Design	3
MECH 3700	CNC Machines	3
TECH 3000	Introduction to Technology Management	3
American Inst	HIST 1740-US Economic History-recmdd	3
<b>Semester 6</b>		
MECH 3300	Industrial Networks	3
MECH 3400	Statics & Strength of Materials	5
MECH 3500	Industrial Robots	3
IT 3400	Data Cabling Signal Characteristics	3
<b>Semester 5</b>		
MECH 3000	Wiring Diagrams in Automation Systems	3
MECH 4100	Technical Math Applied to Automation	2
MECH 3220	Automation Motors and Controllers	3
FINE ARTS	ART 1110 Drawing I-recommended	3
CHEM 1010	Introduction to Chemistry	3
<b>Semester 4</b>		
MECH 2550	Advanced PLC Programming & Applications	4
MECH 2600	Introduction to Pneumatics	3
PHYS 2010	College Physics I	5
PHYS 2015	College Physics I Lab	3
ENGL 2310	Technical Communication	3
<b>Semester 3</b>		
MECH 2400	Mechanical Components	4
MECH 2500	Introduction to PLC's in Mechatronic Design	4
MECH 2510	Automation System Sensors	3
MGMT 1010 or	Introduction to Business or	3
ECON 1010	Economics as a Social Science	3
HLTH 1100 or	Personal Health and Wellness or	2
PES 1097	Fitness for Life	2
<b>Semester 2</b>		
MECH 1010	Introduction to Mechatronics	3
EGDT 1071	3 Dimensional Modeling-SolidWorks	3
MECH 2200	Semiconductors in Mechatronic Systems	4
MECH 2300	Microcontroller Architecture and Programming	4
ENGL 2020	Intermediate Writing - Science & Tech	3
<b>Semester 1</b>		
ENGL 1010	Introduction to Writing	3
MATH 1050	College Algebra	4
MECH 1200	Electronics in Automation Design	5
MECH 1250	Logic Fundamentals for Mechatronic Design	3
<i>MATH prerequisites</i>		
<b>Graduation Requirements:</b>		
1. Completion of a minimum of 123 semester credits		
2. Overall grade point average of 2.0 (C) or above.		
3. No grade lower than a C- in any TECH course.		
4. Residency hours--Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.		
5. Completion of GE and specified departmental requirements.		
6. Successful completion of at least one Global/Intercultural course.		
Total Technical Specialty Credits.....45 credits		
Total Upper Division Core Credits .....28 credits		
Total Upper Division Elective Credits .....15 credits		
Total General Education Credits.....35 credits		

**NOTES:** Take recommended courses in sequence. Follow the recommended electives (green) in the lower-division stackable tracks to ensure timely completion of advanced degrees. Not following this plan could lead to taking extra classes that do not count toward an advanced degree or could create prerequisite dependency problems, which could delay final graduation.