

Transportation Technologies, B.A.S.

The Bachelor of Applied Science in Transportation Technologies offers career and technical training in advanced vehicle technologies. Courses offered are in the areas of energy storage, electric drive systems, failure analysis, fleet operations management, diesel performance, vehicle design, composites, and other advanced vehicle design technologies. Students who complete this program can expect to be high potential earners, with the ability to move throughout the technician or management arena.

Matriculation Requirements

Students must complete 45 credits from a transportation-related Associate of Applied Science Degree, such as UVU's Automotive, Diesel, Collision Repair, or Power Sports, or another related program.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		122
Credits from a transportation-related AAS		45
Additional General Education		35 Credits
ENGL 1010	Introduction to Academic Writing CC	3
ENGL 2010	Intermediate Academic Writing CC	3
MAT 1030 or MAT 1035	Quantitative Reasoning QL Quantitative Reasoning with Integrated Algebra QL	3
American Institution Distribution		3
PHIL 2050	Ethics and Values IH	3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE Fitness for Life TE	2
Biology Distributions		3
Physical Science Distribution		3
Humanities Distribution		3
Fine Arts Distribution		3
Additional Biology or Physical Science		3
TECH 200G	Technology and Human Life SS GI	3
Degree Core Courses		21 Credits
TT 3260	Energy Storage and Advanced Electrical	3
TT 3450	Failure Analysis Materials Science and Treatments	3
TT 3460	Can Bus Ladder Logic and PLC Systems	3
TT 4000	Capstone	3
TT 4260	Electric Drive Systems	3
TT 4270	Compliance EPA OSHA Others WE	3
TT 4510	Operations Management Fleet and Personnel WE	3
Degree Elective Courses		21 Credits
Choose seven courses from the following electives		21
TT 3126	Advanced Hydraulics (undefined)	
TT 3140	Vehicle Safety and Emissions (undefined)	
TT 3230	High Performance Engines (undefined)	
TT 3320	Design and Construction (undefined)	
TT 3350	Alternative Fuel Systems (undefined)	
TT 3406	High Performance Diesel Engines (undefined)	
TT 3500	Fabrication and Automotive Interior Design (undefined)	
TT 3840	Dynamometer/Data Acquisition (undefined)	
TT 4230	Advanced Welding Technologies and Attachment Methods (undefined)	

TT 4320	Noise Vibration and Harshness (undefined)
TT 4400	Advanced Composites (undefined)
TT 4840	Performance Tuning (undefined)
ACC 3000	Financial Managerial and Cost Accounting Concepts (3)
LEGL 3000	Business Law (3)
TECH 4200	Technology Marketing and Customer Relationship Management (3)

Graduation Requirements

1. Completion of a minimum of 122 semester credits
2. Overall grade point average of 2.0 (C) or above.
3. No grade lower than a C- in any TT 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 general education (GE) and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track (<http://www.uvu.edu/wolverinetrack/>).

First Year

Semester 1		Credit Hours
MAT 1030	Quantitative Reasoning QL	3
Transportation Related Credits		12
	Credit Hours	15

Semester 2		
ENGL 1010	Introduction to Academic Writing CC	3
TECH 200G	Technology and Human Life SS GI	3
Transportation Related Credits		12
	Credit Hours	18

Second Year

Semester 3		
Transportation Related Credits		12
Humanities Distribution		3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
	Credit Hours	17

Semester 4		
ENGL 2010	Intermediate Academic Writing CC	3
Biology Distribution		3
American Institution Distribution		3
Transportation Related Credits		9
	Credit Hours	18

Third Year

Semester 5		
TT 3260	Energy Storage and Advanced Electrical	3
TT 3450	Failure Analysis Materials Science and Treatments	3
Transportation Upper Division Electives		6
Fine Arts Distribution		3
PHIL 2050	Ethics and Values IH	3
	Credit Hours	18

Semester 6		
TT 4270	Compliance EPA OSHA Others WE	3
TT 4510	Operations Management Fleet and Personnel WE	3
TT 4260	Electric Drive Systems	3
Transportation Upper Division Elective		6
	Credit Hours	15

Fourth Year

Semester 7

TT 3460	Can Bus Ladder Logic and PLC Systems	3
Transportation Upper Division Electives		6
Physical Science		3
Credit Hours		12

Semester 8

TT 4000	Capstone	3
Third Science		3
Transportation Upper Division Electives		3
Credit Hours		9
Total Credit Hours		122

Program Learning Outcomes

1. Diagnose / Repair / Subsume/ Electrical & Electronic Systems
2. Diagnose / Repair / Subsume/ Transportation computer systems
3. Diagnose / Repair / Subsume/ Industry based communications systems
4. Diagnose / Repair / Subsume/ Advance vehicle systems