

Transportation Technologies

Transportation Technologies

The Transportation Technologies department is in the [Scott M. Smith College of Engineering](#). To find the most up-to-date information, including Program Learning Outcomes for degree programs offered by the Transportation Technologies department, visit their website.

[Transportation Technologies department](#)

FACULTY

BEAN, Paul Associate Professor

BOHL, Dean Associate Professor

HASARA, Matthew Assistant Professor

JENNINGS, Trent Assistant Professor

LOW, Todd Professor

MOORE, Thomas Lecturer

ORR, Terrance Associate Professor

TAYLOR, Zachery Associate Professor

WALKER, Kent Associate Professor

WILSON, Don Associate Professor

Degrees & Programs

Automotive Power Sports, A.A.S.

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Requirements

The AAS in Automotive Power Sports is designed to train technicians in the field of maintenance and repair of personal transportation craft and multi person transportation vehicles that are currently outside the realm of automotive. The degree includes: on road alternative vehicles (side by sides), personal watercraft, All Terrain Vehicle (ATV) and Utility Terrain Vehicle (UTV), snow machines, lawn and garden systems, and motorcycle technology. Graduates will gain an in-depth understanding of alternative transportation vehicles utilizing hands-on, performance based training.

A sales and service business skills course will also aid students to acclimate from school training to a live repair facility. Students will receive training in four-stroke and two-stroke engines, continuous variable transmissions (CVT), suspension and braking systems, composite repairs, and small engine electronic systems.

Total Program Credits: 63

General Education Requirements:		17 Credits
	AUT 1260 Tech Math for Mechanics	3
or	MAT 1010 Intermediate Algebra (4)	
Complete one of the following:		3
	MKTG 220G Written Business Communication GI WE (3)	
	ENGL 1010 Introduction to Academic Writing CC (3)	
	ENGH 1005 Literacies and Composition Across Contexts CC (5)	
Any approved Behavioral Science, Social, or Political Science Distribution Course		3

Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		3
Any approved Physical Education, Health, Safety, or Environment Course		2
Any approved Biology or Physical Science Distribution Course		3
Discipline Core Requirements:		46 Credits
AUT 1110	Brake Systems	2
AUT 111L	Brake Systems Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Suspension and Steering Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
CRT 2400	Plastic Paintless Dent Repair	2
CRT 240L	Plastic Paintless Dent Repair Lab	1
CRT 1230	Welding and Cutting	2
CRT 123L	Welding and Cutting Lab	1
PST 1110	Two Stroke Engine Systems	2
PST 1115	Two Stroke Engine Systems Lab	1
PST 1210	Four Stroke Small Engine Systems	2
PST 1215	Four Stroke Small Engine Systems Lab	1
PST 1120	Constant Velocity Transmissions and Drive Systems	2
PST 1125	Constant Velocity Transmissions and Drive Systems Lab	1
PST 2110	Snowmobile Systems	2
PST 2115	Snowmobile Systems Lab	1
PST 2120	ATV and UTV Systems	2
PST 2125	ATV and UTV Systems Lab	1
PST 2130	Small Motorcycles and Scooters	2
PST 2135	Small Motorcycles and Scooters Lab	1
PST 2230	Street and Sport Motorcycles	2
PST 2235	Street and Sport Motorcycle Lab	1
PST 2240	Outdoor Power Equipment	2
PST 2245	Outdoor Power Equipment Systems Lab	1
PST 2250	Personal Watercraft	2
PST 2255	Personal Watercraft Systems Lab	1
AUT 285R	Cooperative Correlated Class ¹	1

Notes:

1. Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of AAS requirements. Approval of the program coordinator must be secured before class enrollment.

Graduation Requirements:

1. Completion of a minimum of 63 semester credits

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- Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- Residency hours--minimum of 20 credit hours through course attendance at UVU
- Completion of GE and specified departmental requirements

Automotive Power Sports, A.A.S.

Careers

- Identify/diagnose/repair electrical and electronic systems.
- Identify/diagnose/repair 2 and 4 stroke engine mechanical systems.
- Identify/diagnose/repair nonstructural and structural components.
- Identify/diagnose/repair clutching and drive train systems.
- Identify/diagnose/repair cooling/heating systems.
- Identify/diagnose/repair steering suspension and brake systems.
- Identify/diagnose/repair varied fuel delivery systems.

Related Careers

- Motorboat Mechanics and Service Technicians
- Outdoor Power Equipment and Other Small Engine Mechanics

Automotive Technology, A.A.S.

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Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associate in Applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 64

General Education Requirements:		16 Credits
	MKTG 220G Written Business Communication GI WE	3
or	ENGL 1010 Introduction to Academic Writing CC (3)	
or	ENGH 1005 Literacies and Composition Across Contexts CC (5)	
	AUT 1260 Tech Math for Mechanics	3
or	MAT 1015 Intermediate Algebra with Integrated Review	
	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	3
	Any approved Behavioral Science, Social, or Political Science Distribution Course	3
	Any approved Biology or Physical Science Distribution Course	3
	Any approved Physical Education, Health, Safety, or Environment Course	1
Discipline Core Requirements:		48 Credits
	AUT 1110 Brake Systems	2
	AUT 111L Brake Systems Lab	1
	AUT 1120 Manual Power Trains	2
	AUT 112L Manual Power Trains Lab	1
	AUT 1130 Engine Repair	2
	AUT 113L Engine Repair Lab	1

AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Suspension and Steering Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
AUT 1220	Automatic Powertrain Systems	2
AUT 122L	Automatic Transmissions and Transaxles Lab	1
AUT 1230	Engine Performance	2
AUT 123L	Engine Performance Lab	1
AUT 2110	Advanced Steering Suspension and Alignment	2
AUT 211L	Automotive Service Practicum Steering/Suspension/Alignment Lab	1
AUT 2120	Advanced Engine Performance	2
AUT 212L	Automotive Service Practicum Engine Performance Lab	1
AUT 2130	Advanced Emission Control Systems	2
AUT 213L	Automotive Service Practicum Emission Controls Lab	1
AUT 2140	Chassis Electrical and Electronics Systems	2
AUT 214L	Automotive Service Practicum Chassis Electrical and Electronics Lab	1
AUT 2210	Advanced Braking and Control Systems	2
AUT 221L	Automotive Service Practicum Brake Systems Lab	1
AUT 2220	Automatic Transmissions and Electronic Controls	2
AUT 222L	Automotive Service Practicum Transmission Controls Lab	1
AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 224L	Automotive HVAC Lab	1
AUT 2250	Electronic Fuel Management Systems	2
or	AUT 2350 Electronic Diesel Fuel Management Systems (2)	
AUT 225L	Automotive Service Practicum Fuel Management Systems Lab	1

Graduation Requirements:

- Completion of a minimum of 64 semester credits
- Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- Residency hours--minimum of 20 credit hours through course attendance at UVU
- Completion of GE and specified departmental requirements

Automotive Technology, A.A.S.

Careers

- Students will be able to demonstrate and discuss what effect wide band O2 sensors have on vehicle emissions and drivability, and how PCM input and output is interpreted.

Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Automotive Technology, A.S.

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Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 60

General Education Requirements:		35 Credits
	ENGL 1010 Introduction to Academic Writing CC	3
or	ENGL 1005 Literacies and Composition Across Context CC (5)	
	ENGL 2010 Intermediate Academic Writing CC	3
Complete one of the following:		3
	MAT 1030 Quantitative Reasoning QL (3)	
	MAT 1035 Quantitative Reasoning with Integrated Algebra QL (6)	
	STAT 1040 Introduction to Statistics QL (3)	
	STAT 1045 Introduction to Statistics with Algebra QL (5)	
	MATH 1050 College Algebra QL (4)	
	MATH 1055 College Algebra with Preliminaries QL (5)	
	MATH 1090 College Algebra for Business QL (3)	
Complete one of the following:		3
	POLS 1000 American Heritage SS (3)	
	HIST 2700 US History to 1877 AS (3)	
and	HIST 2710 US History since 1877 AS (3)	
	HIST 1700 American Civilization AS (3)	
	HIST 1740 US Economic History AS (3)	
	POLS 1100 American National Government AS (3)	
Complete the following:		
	PHIL 2050 Ethics and Values IH	3
	HLTH 1100 Personal Health and Wellness TE	2
or	EXSC 1097 Fitness for Life TE (2)	
Distribution Courses		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities	3
	Fine Arts	3
	Social/Behavioral Science	3
Discipline Core Requirements:		16 Credits

Choose from AUT or related 1000 level or higher courses	16
Elective Requirements:	9 Credits
Choose electives from 1000 level or higher courses	9

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Automotive Technology, A.S. Careers

1. Students will be able to demonstrate and discuss what effect wide band O2 sensors have on vehicle emissions and drivability, and how PCM input and output is interpreted.
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Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Collision Repair Technology, A.A.S.

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Requirements

Collision Repair Technology is a two year AAS Degree program that provides students with the ability to learn industries best practices in Surface Preparation, Nonstructural Repair, Welding, Refinishing, Color Matching, Detailing, Blending, Structural Damage Analysis, Repair and Replacement, Advanced Vehicle Systems diagnostics and repair and Plastic/Composite Repair. Students will graduate with industry certifications, such as I-Car, ASE, Mitchells, Audatex, CCC One, and Chief Training. These skills will prepare graduates for an exciting career in a field that is continually advancing in technology. There is an abundance of growth and personal development possible in this field. The program is certified by the National Automotive Teacher Education Foundation (NATEF) and uses Inter-Industry Conference on Auto Collision Repair (I-CAR) curriculum. Students will receive the latest repair technique training and have the ability to gain I-CAR certifications. Jobs are waiting for you to complete your training!

Total Program Credits: 64

General Education Requirements		16 Credits
	MKTG 220G Written Business Communication GI WE	3
or	ENGL 1010 Introduction to Academic Writing CC	
or	ENGL 1005 Literacies and Composition Across Contexts CC	
Complete one of the following:		
	AUT 1260 Tech Math for Mechanics (3)	3
or	MAT 1010 Intermediate Algebra (4)	
or	MATH 1050 College Algebra QL (4)	
or	Any higher MAT or MATH course.	

Transportation Technologies

Any approved Humanities, Fine Arts, or Foreign Language Distribution Course			
Any approved Behavioral Science, Social, or Political Science Distribution Course			
Any approved Biology or Physical Science Distribution Course			
Any approved Physical Education, Health, Safety or Environment Course			
Discipline Core Requirements:			48 Credits
AUT 1160	Automotive Electrical Systems		2
AUT 116L	Automotive Electrical Systems Lab		1
AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory Modified Course		2
AUT 224L	Automotive HVAC Lab		1
CRT 1110	Surface Preparation		2
CRT 111L	Surface Preparation Lab		1
CRT 1120	Nonstructural Repair		2
CRT 112L	Nonstructural Repair Lab		1
CRT 1130	Overall Refinishing and Problem Solving		2
CRT 113L	Overall Refinishing and Problem Solving Lab		1
CRT 1140	Panel Replacement and Adjustment		2
CRT 114L	Panel Replacement and Adjustment Lab		1
CRT 1210	Blending Tinting and Detailing		2
CRT 121L	Blending Tinting and Detailing Lab		1
CRT 1230	Welding and Cutting		2
CRT 123L	Welding and Cutting Lab		1
or	CRT 281R	Cooperative Work Experience - Internship (1-8) ¹	
or	CRT 285R	Cooperative Correlated Class - Internship (1) ¹	
or	CRT 299R	Skills USA (1) (optional)	
	CRT 2310	Collision Damage Reporting	2
	CRT 231L	Collision Damage Reporting Lab	1
	CRT 2320	Structural Damage Analysis	2
	CRT 232L	Structural Damage Analysis Lab	1
	CRT 2330	Structural Repair	2
	CRT 233L	Structural Repair Lab	1
	CRT 2340	Full and Partial Panel Replacement	2
	CRT 234L	Full and Partial Panel Replacement Lab	1
	CRT 2400	Plastic Paintless Dent Repair	2
	CRT 240L	Plastic PaintLess Dent Repair Lab	1
	CRT 2440	Mechanical Advanced Vehicle Systems	2
	CRT 244L	Mechanical Advanced Vehicle Systems Lab	1
	CRT 2450	Bags Brakes Steering	2
	CRT 245L	Bags Brakes Steering Lab	1

CRT 2360	Detailing and Custom Painting	2
CRT 263L	Detailing and Custom Painting Lab	1
Notes:		
1. Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of AAS requirements. Approval of the program coordinator must be secured before class enrollment.		

Diesel Mechanics Technology, A.A.S.

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Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

Total Program Credits: 63

General Education Requirements:			10 Credits
MKTG 220G	Written Business Communication GI WE		3
Choose one of the following:			3
AUT 1260	Tech Math for Mechanics (3)		
or	MAT 1000	Integrated Beginning and Intermediate Algebra (5)	
or	Any higher MAT or MATH course		
Any approved Behavioral Science, Social, or Political Science Distribution Course			3
Any approved Physical Education, Health, Safety or Environment Course			1
Discipline Core Requirements:			53 Credits
DMT 1005	Basic Shop and Safety Skills		2
DMT 1110	Diesel Engine Overhaul		4
DMT 111L	Diesel Engine Overhaul Lab		2
DMT 1120	Diesel Engine Operation Tune Up		4
DMT 112L	Diesel Engine Operation Tune Up Lab		2
DMT 1510	Electrical Systems I		4
DMT 151L	Electrical Systems I Lab		2
DMT 1520	Electrical Systems II		2
DMT 152L	Electrical Systems II Lab		1
DMT 2230	Heating Ventilation Air Conditioning and Refrigeration Theory		2
DMT 223L	Heating Ventilation Air Conditioning and Refrigeration Lab		1
DMT 2310	Fluid Power I Theory		4
DMT 231L	Fluid Power I Lab		2
DMT 2320	Fluid Power II Theory		4
DMT 232L	Fluid Power II Lab		2
DMT 2410	Chassis Theory		4
DMT 241L	Chassis Lab		2

DMT 2420	Power Train Theory	4
DMT 242L	Power Train Lab	2
DMT 2530	Electronic Engine Management	2
DMT 253L	Electronic Engine Management Lab	1

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Diesel Mechanics Technology, A.A.S.

Careers

1. Identify, diagnose, and repair electrical and electronic computer systems.
2. Identify, diagnose, and repair diesel engine mechanical systems.
3. Identify, diagnose, and repair drivetrain & chassis systems.
4. Identify, diagnose, and repair steering suspension & brake systems.
5. Identify, diagnose, and repair heating and cooling systems.
6. Identify, diagnose, and repair hydraulic/hydrostatic systems.
7. Identify, diagnose, and repair fuel delivery systems.
8. Display industry based communication skills.

Related Careers

- Bus and Truck Mechanics and Diesel Engine Specialists

Automotive Technology, Certificate of Completion

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Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 31

Discipline Core Requirements:		31 Credits
AUT 1110	Brake Systems	2
AUT 111L	Brake Systems Lab	1
AUT 1120	Manual Power Trains	2
AUT 112L	Manual Power Trains Lab	1
AUT 1130	Engine Repair	2
AUT 113L	Engine Repair Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Suspension and Steering Systems	2
AUT 121L	Suspension and Steering Systems Lab	1

AUT 1220	Automatic Powertrain Systems	2
AUT 122L	Automatic Transmissions and Transaxles Lab	1
AUT 1230	Engine Performance	2
AUT 1260	Tech Math for Mechanics	3
MKTG 220G	Written Business Communication GI WE	3
Any approved Behavioral Science, Social, or Political Science Distribution course		2

Graduation Requirements:

1. Completion of a minimum of 31 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU
4. Completion of specified departmental requirements

Automotive Technology, Certificate of Completion Careers

1. Diagnose and repair charging and electronic systems.
2. Diagnose and repair braking systems.
3. Diagnose, repair, and identify drivetrain components.
4. Diagnose and repair steering and suspension components.
5. Diagnose and repair HVAC systems.
6. Diagnose and repair engine mechanical systems.
7. Diagnose and repair fuel and ignition systems.
8. Retrieve, diagnose, and flash computer systems.

Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics

Collision Repair Technology, Certificate of Completion

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Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree. See graduation requirements in the catalog for more information.

Total Program Credits: 32

Discipline Core Requirements:		32 Credits
Complete one of the following:		3
AUT 1260	Tech Math for Mechanics (3)	
or	MAT 1010	Intermediate Algebra (4)
or	MAT 1050	College Algebra QL (4)
or	Any higher MAT or MATH course	
MKTG 220G	Written Business Communication GI WE	3
or	ENGL 1010	Introduction to Academic Writing CC (3)

Transportation Technologies

or	ENGL 1005	Literacies and Composition Across Contexts CC (3)	
		Any approved Behavioral Science, Social, or Political Science Distribution Course	2
	AUT 1160	Automotive Electrical Systems	2
	AUT 116L	Automotive Electrical Systems Lab	1
	AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
	AUT 224L	Automotive HVAC Lab	1
	CRT 1110	Surface Preparation	2
	CRT 111L	Surface Preparation Lab	1
	CRT 1120	Nonstructural Repair	2
	CRT 112L	Nonstructural Repair Lab	1
	CRT 1230	Welding and Cutting	2
	CRT 123L	Welding and Cutting Lab	1
	CRT 1140	Panel Replacement and Adjustment	2
	CRT 114L	Panel Replacement and Adjustment Lab	1
	CRT 1130	Overall Refinishing and Problem Solving	2
	CRT 113L	Overall Refinishing and Problem Solving Lab	1
	CRT 1210	Blending Tinting and Detailing	2
	CRT 121L	Blending Tinting and Detailing Lab	1

Graduation Requirements:

1. Completion of a minimum of 32 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU

Note: Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of diploma requirements.

Collision Repair Technology, Certificate of Completion

Careers

1. Identify, diagnose, and repair electrical systems.
2. Identify, diagnose, and repair nonstructural and structural damage.
3. Identify, diagnose, and repair paint refinish defects/damage.
4. Identify, diagnose, and repair HVAC system damage.
5. Identify, diagnose, and repair drivetrain damage.
6. Identify, diagnose, and repair safety and restraint systems.
7. Develop and display industry communication skills.

Related Careers

- Insurance Appraisers, Auto Damage
- Automotive Body and Related Repairers
- Automotive Glass Installers and Repairers
- Painters, Transportation Equipment

Diesel Mechanics Technology, Certificate of Completion

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than provided, you may contact the Assistive Technology Center at ACCESSIBLETECH@uvu.edu or 801-863-6788.

Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

Total Program Credits: 32

Discipline Core Requirements:			32 Credits
DMT 1110	Diesel Engine Overhaul		4
DMT 111L	Diesel Engine Overhaul Lab		2
DMT 1120	Diesel Engine Operation Tune Up		4
DMT 112L	Diesel Engine Operation Tune Up Lab		2
DMT 2410	Chassis Theory		4
DMT 241L	Chassis Lab		2
DMT 2420	Power Train Theory		4
DMT 242L	Power Train Lab		2
MKTG 220G	Written Business Communication GI WE		3
Complete one of the following:			3
AUT 1260	Tech Math for Mechanics (3)		3
MAT 1015	Intermediate Algebra with Integrated Review (5)		
Any higher MAT or MATH course			
Any approved Behavioral Science, Social, or Political Science Distribution Course			2

Graduation Requirements:

1. Completion of a minimum of 32 credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Diesel Mechanics Technology, Certificate of Completion

Careers

1. Identify, diagnose, and repair electrical and electronic computer systems.
2. Identify, diagnose, and repair diesel engine mechanical systems.
3. Identify, diagnose, and repair drivetrain and chassis systems.
4. Identify, diagnose, and repair steering suspension & brake systems.
5. Identify, diagnose, and repair heating and cooling systems.
6. Identify, diagnose, and repair hydraulic/hydrostatic systems.
7. Identify, diagnose, and repair fuel delivery systems.
8. Display industry based communication skills.

Related Careers

- Bus and Truck Mechanics and Diesel Engine Specialists

Automotive Technology, Diploma

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Requirements

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associated in applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

Total Program Credits: 56

Discipline Core Requirements:		56 Credits
AUT 1110	Brake Systems	2
AUT 111L	Brake Systems Lab	1
AUT 1120	Manual Power Trains	2
AUT 112L	Manual Power Trains Lab	1
AUT 1130	Engine Repair	2
AUT 113L	Engine Repair Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Suspension and Steering Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
AUT 1220	Automatic Powertrain Systems	2
AUT 122L	Automatic Transmissions and Transaxles Lab	1
AUT 1230	Engine Performance	2
AUT 123L	Engine Performance Lab	1
AUT 2110	Advanced Steering Suspension and Alignment	2
AUT 211L	Automotive Service Practicum Steering/Suspension/Alignmnet Lab	1
AUT 2120	Advanced Engine Performance	2
AUT 212L	Automotive Service Practicum Engine Performance Lab	1
AUT 2130	Advanced Emission Control Systems	2
AUT 213L	Automotive Service Practicum Emission Controls Lab	1
AUT 2140	Chassis Electrical and Electronics Systems	2
AUT 214L	Automotive Service Practicum Chassis Electrical and Electronics Lab	1
AUT 2210	Advanced Braking and Control Systems	2
AUT 221L	Automotive Service Practicum Brake Systems Lab	1
AUT 2220	Automatic Transmissions and Electronic Controls	2
AUT 222L	Automotive Service Practicum Transmission Controls Lab	1
AUT 2240	Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 224L	Automotive HVAC Lab	1
AUT 2250	Electronic Fuel Management Systems	2
or AUT 2350	Electronic Diesel Fuel Management Systems (2)	

AUT 225L	Automotive Service Practicum Fuel Management Systems Lab	1
MKTG 220G	Written Business Communication GI WE	3
Any approved Behavioral Science, Social, or Political Science Distribution Course		2
AUT 1260	Tech Math for Mechanics	3

Graduation Requirements:

1. Completion of a minimum of 56 semester hours.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.

Diesel Mechanics Technology, Diploma

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Requirements

One-Year Certificate, a Diploma, the Associate in Applied Science Degree, and the Bachelor of Science in Technology Management Degree.

Total Program Credits: 61

Discipline Core Requirements:		61 Credits
DMT 1005	Basic Shop and Safety Skill	2
DMT 1110	Diesel Engine Overhaul	4
DMT 111L	Diesel Engine Overhaul Lab	2
DMT 1120	Diesel Engine Operation Tune Up	4
DMT 112L	Diesel Engine Operation Tune Up Lab	2
DMT 1510	Electrical Systems I	4
DMT 151L	Electrical Systems I Lab	2
DMT 1520	Electrical Systems II	2
DMT 152L	Electrical Systems II Lab	1
DMT 2230	Heating Ventilation Air Conditioning and Refrigeration Theory	2
DMT 223L	Heating Ventilation Air Conditioning and Refrigeration Lab	1
DMT 2310	Fluid Power I Theory	4
DMT 231L	Fluid Power I Lab	2
DMT 2320	Fluid Power II Theory	4
DMT 232L	Fluid Power II Lab	2
DMT 2410	Chassis Theory	4
DMT 241L	Chassis Lab	2
DMT 2420	Power Train Theory	4
DMT 242L	Power Train Lab	2
DMT 2530	Electronic Engine Management	2
DMT 253L	Electronic Engine Management Lab	1
MKTG 220G	Written Business Communication GI WE	3
AUT 1260	Tech Math for Mechanics	3

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Any approved Behavioral Science, Social, or Political Science Distribution Course	2
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Graduation Requirements:

1. Completion of a minimum of 61 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Completion of specified departmental requirements.
4. Residency hours--minimum of 20 credit hours through course attendance at UVU.

Transportation Technologies, B.A.S.

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Requirements

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 drivesystems, 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.

Total Program Credits: 122

Matriculation Requirements:		
1. 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.		
General Education Requirements:		35 Credits
	ENGL 1010	Introduction to Academic Writing CC 3
	ENGL 2010	Intermediate Academic Writing CC 3
	MAT 1030	Quantitative Reasoning QL (3) 3
or	MAT 1035	Quantitative Reasoning with Integrated Algebra QL (6)
American Heritage Distribution:		3
	PHIL 2050	Ethics and Values IH 3
	HLTH 1100	Personal Health and Wellness TE 2
or	EXSC 1097	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
Discipline Core Requirements:		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
Elective Requirements:			21 Credits
Choose seven course from the following electives			21
	TT 3126	Advanced Hydraulics (3)	
	TT 3140	Vehicle Safety and Emissions (3)	
	TT 3230	High Performance Engines (3)	
	TT 3320	Design and Construction (3)	
	TT 3350	Alternative Fuel Systems (3)	
	TT 3406	High Performance Diesel Engines (3)	
	TT 3500	Fabrication and Automotive Interior Design (3)	
	TT 3840	Dynamometer/Data Acquisition (3)	
	TT 4230	Advanced Welding Technologies and Attachment Methods (3)	
	TT 4320	Noise Vibration and Harshness (3)	
	TT 4400	Advanced Composites (3)	
	TT 4840	Performance Tuning (3)	
	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 GE and specified departmental requirements.
6. Successful completion of at least one Global/Intercultural course.

Transportation Technologies, B.A.S.

Careers

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

Related Careers

- Electrical and Electronics Installers and Repairers, Transportation Equipment
- Electronic Equipment Installers and Repairers, Motor Vehicles
- Automotive Service Technicians and Mechanics