

Program Information Report

Transportation Technologies

Transportation Technologies *PENDING FULL APPROVAL* (APOETT)

Associate in Applied Science Degree

Program Effective Term: Fall 2025

High Demand Occupation High Skill Occupation High Wage Occupation

In this AAS degree, students have a choice to follow any of four specialty tracks that will prepare them for employment in the transportation industry. This option can be selected if an associate's degree is required for employment or advancement in a field. Each track features a variety of application-level classes where students perform lab-oriented practice for the required skills in auto body repair, automotive service, auto cybersecurity, or EV service related fields. Students will learn using the latest technology, methods and tooling in their area of concentration.

The program prepares the student for the State of Michigan Mechanics Certification tests as well as the National Institute for Automotive Service Excellence (ASE) Certification Exams. Students are encouraged to meet with a divisional advisor or faculty.

Minimum Concentration Credits Required for the Program:

60

Select a specialized concentration in one of the following areas: Auto Body, Auto Cyber Security, Auto Service, or Electric Vehicle Service & Repair. Each concentration is comprised of one or two certificates. Upon completion, students will earn two or three credentials: The Transportation Technologies Degree and 1-2 additional certificates depending on the track selected.

Transportation Technologies *PENDING FULL APPROVAL* Concentrations

Auto Body (ABDY) (60 credits)

First Semester (15 credits)

ATT 111	Introduction to Auto Body Repair	4
ATT 112	Introduction to Automotive Refinishing	4
ATT 114	Applied Transportation Welding	2
ATT 119	Introduction to Metal Shaping	2
Elective	Writing Elective(s)	3

Second Semester (15 credits)

ATT 123	Technical Auto Body Repair	4
ATT 124	Technical Automotive Refinishing	4
ATT 140	Aluminum Welding for Transportation Applications	4
Elective	Math Elective(s)*	3

Third Semester (14 credits)

ATT 130	Automotive Service	4
Elective	Nat. Sci. Elective(s)	3
ATT 136 or	History of Transportation Technologies	
HST 136 or	History of Transportation Technologies	
Elective	Soc. Sci. Elective(s)	3
Elective	Restricted Elective(s): ATT 131, ATT 150, ATT 231, ATT 260	4

Fourth Semester (16 credits)

ATT 121	Automotive Estimating	2
ATT 201	Lightweighting Composite Repair	4
Elective	Arts/Humanities Elective(s)	3
Elective	Speech Elective(s)	3
Elective	Restricted Elective(s): ATT 131, ATT 150, ATT 231, ATT 260	4

Minimum Credits Required for the Concentration or Option: 60

Auto Cyber Security (ACS) (61 credits)

First Semester (16 credits)

ATT 131	Automotive Electrical	4
ATT 180	Alternative Vehicle Fundamentals & Safety	2
CPS 120	Introduction to Computer Science	3

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CST 160	Computer Systems Technology I	4
Elective	Writing Elective(s)	3

Second Semester (15 credits)

ATT 130	Automotive Service	4
ATT 133	Automotive Fuel Systems	4
CST 185	Local and Mobile Networking Essentials	4
Elective	Math Elective(s)*	3

Third Semester (14 credits)

ATT 136 or	History of Transportation Technologies	
HST 136 or	History of Transportation Technologies	
Elective	Soc. Sci. Elective(s)	3
ATT 256	Electrical and Electronic Systems	4
CSS 200	Introduction to Network Security - Security+	4
Elective	Arts/Humanities Elective(s)	3

Fourth Semester (16 credits)

ATT 258	Engine Drivability	2
ATT 277	Automotive Powertrain Systems	4
CSS 285	Essentials of Automotive Penetration Testing	4
Elective	Nat. Sci. Elective(s)	3
Elective	Speech Elective(s)	3

Minimum Credits Required for the Concentration or Option: 61**Auto Service (ASVC) (60 credits)****First Semester (16 credits)**

ATT 114	Applied Transportation Welding	2
ATT 130	Automotive Service	4
ATT 131	Automotive Electrical	4
Elective	Arts/Humanities Elective(s)	3
Elective	Writing Elective(s)	3

Second Semester (15 credits)

ATT 132	Automotive Engines	4
ATT 133	Automotive Fuel Systems	4
ATT 134	Automotive Transmissions	4
Elective	Math Elective(s)*	3

Third Semester (14 credits)

ATT 251	Engine Diagnosis and Repair	2
ATT 254	Suspension and Steering Systems	2
ATT 256	Electrical and Electronic Systems	4
Elective	Speech/Comp. Elective(s)	3
ATT 136 or	History of Transportation Technologies	
HST 136 or	History of Transportation Technologies	
Elective	Soc. Sci. Elective(s)	3

Fourth Semester (15 credits)

ATT 255	Brake Systems	2
ATT 257	Heating and Air Conditioning Systems	2
ATT 258	Engine Drivability	2
ATT 266	Advanced Transmissions	2
Elective	Nat. Sci. Elective(s)	3
Elective	Restricted Elective(s): ATT 111, ATT 180, ATT 277, ATT 279	4

Minimum Credits Required for the Concentration or Option: 60

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Electric Vehicle Service & Repair (EVSER) (62 credits)

First Semester (16 credits)

ATT 130	Automotive Service	4
ATT 131	Automotive Electrical	4
ATT 180	Alternative Vehicle Fundamentals & Safety	2
Elective	Writing Elective(s)	3
Elective	Math Elective(s)*	3

Second Semester (17 credits)

ATT 114	Applied Transportation Welding	2
ATT 132	Automotive Engines	4
ATT 256	Electrical and Electronic Systems	4
ATT 280	Introduction to Electric Vehicles (EV)	4
Elective	Nat. Sci. Elective(s)	3

Third Semester (14 credits)

Elective	Arts/Humanities Elective(s)	3
ATT 254	Suspension and Steering Systems	2
ATT 257	Heating and Air Conditioning Systems	2
ATT 282	Electric Vehicle (EV) Energy Management	4
Elective	Speech/Comp. Elective(s)	3

Fourth Semester (15 credits)

ATT 255	Brake Systems	2
ATT 284	Electric Vehicle (EV) Drivelines & Chassis	4
ATT 286	Electric Vehicle (EV) Dynamometer Testing	2
ATT 136 or	History of Transportation Technologies	
HST 136 or	History of Transportation Technologies	
Elective	Soc. Sci. Elective(s)	3
Elective	Restricted Elective(s): ATT 277, ATT 279	4

Minimum Credits Required for the Concentration or Option: 62

Minimum Credits Required for the Program: 60

Notes:

*MTH 157 Technical Math is the recommended math course for students pursuing this program as a terminal degree. Students interested in a transfer pathway should consult with their academic advisor to select the most suitable math course for a seamless transfer.

Credentials upon completion:

Auto Body (ABDY) Concentration = APOETT, CTAUBR, CTAUB2

Auto Cyber Security (ACS) Concentration = APOETT, CTACYB

Auto Service (ASVC) Concentration = APOETT, CTASVT, CTASV2

Electric Vehicle Service & Repair (EVSER) Concentration = APOETT, CTEVSF, CTEVST