

2021-22 ACADEMIC PROGRAMS

TRANSPORTATION TECHNOLOGIES (APOETT)

Associate in Applied Science

In this AAS degree, students have a choice to follow any of three different 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 the automotive service related, auto body repair or motorcycle service fields. Students will learn using the latest technology, methods and tooling in their area of concentration.

Students will select a specialized track in one of the following areas, each of which has its own associated certificated program(s): Auto Service, Auto Body or Motorcycle Service. 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. Meet with a divisional advisor or faculty.

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Description

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Admissions Requirements

Academic Reading and Writing Levels of 6; Academic Math Level 3

Concentrations

Auto Body (ABDY)

First Semester

Class	Title	Minimum Credits
ABR 111	Introduction to Auto Body Repair	4
ABR 112	Introduction to Automotive Refinishing	4
ABR 114	Applied Auto Body Welding	2
Elective	Writing Elective(s)	3
Elective	Math Elective(s)	3
Total		16

Second Semester

Class	Title	Minimum Credits
ABR 113	Estimating and Shop Operations	4
ABR 119	The Art of Metal Shaping	2
ABR 123	Technical Auto Body Repair	4
ABR 124	Technical Automotive Refinishing	4
	Restricted Elective(s): Select a minimum of 2 credits from ABR 116, ABR 130, ABR 231, MST 106, or MST 230.	2
Total		16

Third Semester

Class	Title	Minimum Credits
ABR 140	Aluminum Welding for Automotive Applications	4
ABR 135 or ASV 130	Collision-Related Mechanical and Electrical Repairs	4
	Automotive Maintenance	4
	Restricted Elective(s): Select a minimum of 2 credits from ABR 116, ABR 130, ABR 231, MST 106, or MST 230.	2
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Total		16

Fourth Semester

Class	Title	Minimum Credits
ABR 201	Lightweighting Composite Repair	4

	Restricted Elective(s): Select a minimum of 2 credits from ABR 116, ABR 130, ABR 231, MST 106, or MST 230.	2
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Total		12

Total Credits Required: 60**Auto Service (ASVC)****First Semester**

Class	Title	Minimum Credits
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
	Restricted Electives: Select a minimum of 2 credits from ABR 111, ABR 114, ASV 174, ASV 269, ASV 270, ASV 277, ASV 279, CST 185, MST 110, MTT 102, or WAF 105.	2
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3
Total		16

Second Semester

Class	Title	Minimum Credits
ASV 132	Automotive Engines	4
ASV 133	Automotive Fuel Systems	4
ASV 134	Automotive Transmissions	4
ASV 135	Facility Operations	3
	Restricted Elective(s): Select a minimum of 2 credits from ABR 140 or WAF 103.	2
Total		17

Third Semester

Class	Title	Minimum Credits
ASV 254	Suspension and Steering	2
ASV 255	Brakes	2
ASV 256	Electrical and Electronic Systems	4
ASV 258	Engine Drivability	2
Elective	Speech/Comp Elective(s)	3
Elective	Arts/Human Elective(s)	3
Total		16

Fourth Semester

Class	Title	Minimum Credits
ASV 251	Engine Diagnosis and Repair	2
ASV 257	Heating and Air Conditioning Systems	2
ASV 266	Advanced Transmissions	2
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Total		12

Total Credits Required: 61**Motorcycle Service (MSVC)****First Semester**

Class	Title	Minimum Credits
MST 110	Motorcycle Service Technology I	4
ABR 114 or WAF 105	Applied Auto Body Welding Introduction to Welding Processes	2
	Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or MST 112.	4
Elective	Writing Elective(s)	3
Elective	Math Elective(s)	3
Total		16

Second Semester

Class	Title	Minimum Credits
MST 120	Motorcycle Service Technology II	4

MST 130	Motorcycle Service Technology III	4
MTT 102 or MST 230	Machining for the Technologies Advanced Motorcycle Fabrication	2
	Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or MST 112.	2
ABR 140 or WAF 103	Aluminum Welding for Automotive Applications	2
Total	Introduction to Gas Tungsten Arc Welding	14

Third Semester

Class	Title	Minimum Credits
MST 140	Motorcycle Service Technology IV	4
MST 220	Dynamometer Operations	4
	Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or MST 112.	2
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Total		16

Fourth Semester

Class	Title	Minimum Credits
MST 210	Performance Engine Technology	4
MST 225	Advanced Dynamometer Tuning Systems	4
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Total		14

Total Credits Required: 60