

## 2023-24 ACADEMIC PROGRAMS

### 2023-2024 TRANSPORTATION TECHNOLOGIES (APOETT)

#### Description

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.

#### 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
ABR 119	The Art of Metal Shaping	2
Elective	Writing Elective(s)	3
Total		15

##### Second Semester

Class	Title	Minimum Credits
ABR 123	Technical Auto Body Repair	4
ABR 124	Technical Automotive Refinishing	4
ABR 140	Aluminum Welding for Automotive Applications	4
Elective	Speech/Comp. Elective(s)	3
Elective	Math Elective(s)	3
Total		18

##### Third Semester

Class	Title	Minimum Credits
ASV 130	Automotive Maintenance	4
Elective	Restricted Elective(s): ABR 116, ABR 130, ABR 209, ABR 231, ASV 131, MST 106, MST 230	4
Elective	Soc. Sci. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Total		14

##### Fourth Semester

Class	Title	Minimum Credits
ABR 113	Estimating and Shop Operations	4
ABR 201	Lightweighting Composite Repair	4
Elective	Restricted Elective(s): ABR 116, ABR 130, ABR 209, ABR 231, ASV 131, MST 106, MST 230	4
Elective	Nat. Sci. Elective(s)	3
Total		15

**Total Credits Required: 62**

##### Auto Service (ASVC)

##### First Semester

Class	Title	Minimum Credits
ABR 114	Applied Auto Body Welding	2
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
Elective	Writing Elective(s)	3
Elective	Math Elective(s)	3
Total		16

**Second Semester**

Class	Title	Minimum Credits
ABR 140	Aluminum Welding for Automotive Applications	4
ASV 132	Automotive Engines	4
ASV 133	Automotive Fuel Systems	4
ASV 134	Automotive Transmissions	4
Elective	Restricted Elective(s): ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, ASV 277, ASV 279, CSS 200, CSS 205, CSS 285, CST 185, MST 110	2
Total		18

**Third Semester**

Class	Title	Minimum Credits
ASV 251	Engine Diagnosis and Repair	2
ASV 254	Suspension and Steering	2
ASV 256	Electrical and Electronic Systems	4
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Total		14

**Fourth Semester**

Class	Title	Minimum Credits
ASV 255	Brakes	2
ASV 258	Engine Drivability	2
ASV 266	Advanced Transmissions	2
Elective	Restricted Elective(s): ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, ASV 277, ASV 279, CSS 200, CSS 205, CSS 285, CST 185, MST 110	2
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Total		14

**Total Credits Required: 62****Motorcycle Service (MSVC)****First Semester**

Class	Title	Minimum Credits
ABR 114	Applied Auto Body Welding	2
MST 110	Motorcycle Service Technology I	4
Elective	Restricted Elective(s): ABR 119, ABR 201, ABR 209, ASV 130, MST 106, MST 112, MST 235	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
MST 230	Advanced Motorcycle Fabrication	3
Elective	Nat. Sci. Elective(s)	3
Total		14

**Third Semester**

Class	Title	Minimum Credits
MST 140	Motorcycle Service Technology IV	4
MST 220	Dynamometer Operations	4
Elective	Restricted Elective(s): ABR 119, ABR 201, ABR 209, ASV 130, MST 106, MST 112, MST 235	2
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Total		16

**Fourth Semester**

Class	Title	Minimum Credits
ABR 140	Aluminum Welding for Automotive Applications	4
MST 210	Performance Engine Technology	4
MST 225	Advanced Dynamometer Tuning Systems	4
Elective	Soc. Sci. Elective(s)	3

Total

15

**Total Credits Required: 61**