Transportation Technologies (AAS)

Catalog Effective Term: Fall 2025

Program Code: APOETT

Credential: Associate in Applied Science

High Demand Occupation, High Skill Occupation, High Wage Occupation

In this Associate in Applied Science degree, students have a choice to follow any of four 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 auto body repair¹, auto cybersecurity², automotive service³, or electric vehicle service⁴ related fields. Students will learn using the latest technology, methods and tooling in their area of concentration.

This 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 should meet with a divisional advisor or faculty.

- The Auto Body (ABDY) track has the <u>Auto Body Repair (CTAUBR)</u> and <u>Advanced</u> <u>Auto Body Repair (CTAUB2)</u> certificates embedded within the degree.
- The Auto Cyber Security (ACS) track has the <u>Automotive Cybersecurity</u> (CTACYB) certificate embedded within the degree.
- The Auto Service (ASVC) track has the <u>Automotive Services Technician</u> (CTASVT) and <u>Advanced Automotive Services Technician</u> (CVASV2) certificates embedded within the degree.
- The Electric Vehicle Service & Repair (EVSR) track has the <u>Electric Vehicle (EV)</u>

 <u>Safety & Fundamentals (CTEVSF)</u> and <u>Electric Vehicle Service</u>

 <u>Technician (CTEVST)</u> certificates embedded within the degree.

Program Admission Requirements

An Academic Math Level 3 is required for the Auto Cyber Security (ACS)
 concentration

Select a specialized track in one of the following areas, each of which has its own associated certificate program(s):

- Auto Body (ABDY)
- Auto Cyber Security (ACS)
- Auto Service (ASVC)
- Electric Vehicle Service & Repair (EVSR)

• Full-Time Students

• Auto Body Concentration (ABDY)

First Semester		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
Writing Elective(s)		3
	Credits	15

Second Semester			
ATT 123	Technical Auto Body Repair	4	
ATT 124	Technical Automotive Refinishing	4	
ATT 140	Aluminum Welding for Transportation Applications	4	
Math Elective(s)	1	3	
	Credits	15	
Third Semester			
ATT 130	Automotive Service	4	
Nat. Sci. Elective(s)		3	
Soc. Sci. Elective	Soc. Sci. Elective(s)		
APOETT Restrict	ted Elective(s) (ABDY)	4	
	Credits	14	
Fourth Semester			
ATT 121	Automotive Estimating	2	
ATT 201	Lightweighting Composite Repair	4	
Speech/Comp. Elective(s)		3	
APOETT Restricted Elective(s)		4	
Select one of the following:		3	
ATT 136 or HST 136	History of Transportation Technologies or History of Transportation Technologies		

Arts/Human. Elective(s)	
Credits	16
Total Credits	60

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 seamless transfer to a four-year institution.

Auto Cyber Security Concentration (ACS)

First Semester		Credits
ATT 131	Automotive Electrical	4
ATT 180	Alternative Vehicle Fundamentals & Safety	2
CPS 120	Introduction to Computer Science	3
CST 160	Computer Systems Technology I	4
Writing Elective(s)		3
	Credits	16
Second Semester		
ATT 130	Automotive Service	4
ATT 133	Automotive Fuel Systems	4
CST 185	Local and Mobile Networking Essentials	4

Math Elective(s) 1		3
	Credits	15
Third Semester		
Select one of the f	ollowing:	3
<u>ATT 136</u> or <u>HST 136</u>	History of Transportation Technologies or History of Transportation Technologies	
Arts/Human. El	ective(s)	
ATT 256	Electrical and Electronic Systems	4
CSS 200	Introduction to Network Security - Security+	4
Soc. Sci. Elective(s).	3
	Credits	14
Fourth Semester		
ATT 258	Engine Drivability	2
ATT 277	Automotive Powertrain Systems	4
CSS 285	Essentials of Automotive Penetration Testing	4
Natural Sciences		3
Speech/Comp. Elective(s)		3
	Credits	16
	Total Credits	61

Students interested in a transfer pathway should consult with their academic advisor to select the most suitable math course for seamless transfer to a four-year institution.

Auto Service Concentration (ASVC)

First Semester		Credits
ATT 114	Applied Transportation Welding	2
ATT 130	Automotive Service	4
ATT 131	Automotive Electrical	4
Select one of the fo	ollowing:	3
ATT 136 or <u>HST 136</u>	History of Transportation Technologies or History of Transportation Technologies	
Arts/Human. Ele	ective(s)	
Writing Elective(s)		3
	Credits	16
Second Semester		
ATT 132	Automotive Engines	4
ATT 133	Automotive Fuel Systems	4
ATT 134	Automotive Transmissions	4
Math Elective(s) 1		3
	Credits	15

Third Semester		
ATT 251	Engine Diagnosis and Repair	2
ATT 254	Suspension and Steering Systems	2
ATT 256	Electrical and Electronic Systems	4
Speech/Comp. Ele	ctive(s)	3
Soc. Sci. Elective(s).	3
	Credits	14
Fourth Semester		
ATT 255	Brake Systems	2
ATT 257	Heating and Air Conditioning Systems	2
ATT 258	Engine Drivability	2
<u>ATT 266</u>	Advanced Transmissions	2
Nat. Sci. Elective(s)		3
APOETT Restricted Elective(s) (ASVC) to reach 60 credits		4
	Credits	15
	Total Credits	60

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 seamless transfer to a four-year institution.

• Electric Vehicle Service & Repair Concentration (EVSR)

First Semester		Credits
ATT 130	Automotive Service	4
ATT 131	Automotive Electrical	4
ATT 180	Alternative Vehicle Fundamentals & Safety	2
Math Elective(s) 1		3
Writing Elective(s)).	3
	Credits	16
Second Semester		
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
Nat. Sci. Elective(s).	3
	Credits	17
Third Semester		
Select one of the following:		3
<u>ATT 136</u> or <u>HST 136</u>	History of Transportation Technologies or History of Transportation Technologies	
Arts/Human. Elective(s)		
ATT 254	Suspension and Steering Systems	2

ATT 257	Heating and Air Conditioning Systems	2
ATT 282	Electric Vehicle (EV) Energy Management	4
Speech/Comp. E	lective(s)	3
	Credits	14
Fourth Semester	r	
ATT 255	Brake Systems	2
ATT 284	Electric Vehicle (EV) Drivelines & Chassis	4
ATT 286	Electric Vehicle (EV) Dynamometer Testing	2
Soc. Sci. Elective(s)		3
APOETT Restricted Elective(s) (EVSR)		4
	Credits	15
	Total Credits	62

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 seamless transfer to a four-year institution.

Part-Time Students

Auto Body Concentration (ABDY)

First Semester		Credits
ATT 111	Introduction to Auto Body Repair	4
ATT 112	Introduction to Automotive Refinishing	4
	Credits	8
Second Semeste	r	
ATT 114	Applied Transportation Welding	2
ATT 119	Introduction to Metal Shaping	2
ATT 123	Technical Auto Body Repair	4
	Credits	8
Third Semester		
Math Elective(s)	1	3
Writing Elective	<u>'s)</u>	3
	Credits	6
Fourth Semester	•	
ATT 124	Technical Automotive Refinishing	4
APOETT Restrict	ted Elective(s) (ABDY)	4
	Credits	8
Fifth Semester		
ATT 121	Automotive Estimating	2
Soc. Sci. Elective	(<u>s)</u>	3
Speech/Comp. El	ective(s)	3

	Credits	8
Sixth Semester		
ATT 140	Aluminum Welding for Transportation Applications	4
Nat. Sci. Elective	<u>e(s)</u>	3
	Credits	7
Seventh Semes	ter	
ATT 130	Automotive Service	4
ATT 201	Lightweighting Composite Repair	4
	Credits	8
Eighth Semeste	r	
APOETT Restric	cted Elective(s) (ABDY)	4
Select one of the	e following:	3
ATT 136 or HST 136	History of Transportation Technologies or History of Transportation Technologies	
Arts/Human.	Elective(s)	
	Credits	7
	Total Credits	60

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 seamless transfer to a four-year institution.

• Auto Cyber Security Concentration (ACS)

First Semester		Credits
ATT 130	Automotive Service	4
ATT 131	Automotive Electrical	4
	Credits	8
Second Semester		
ATT 133	Automotive Fuel Systems	4
<u>CPS 120</u>	Introduction to Computer Science	3
	Credits	7
Third Semester		
Math Elective(s) 1		3
Writing Elective(s)	<u> </u>	3
	Credits	6
Fourth Semester		
ATT 256	Electrical and Electronic Systems	4
<u>CST 160</u>	Computer Systems Technology I	4
	Credits	8
Fifth Semester		
ATT 180	Alternative Vehicle Fundamentals & Safety	2

<u>CST 185</u>	Local and Mobile Networking Essentials	4	
	Credits	6	
Sixth Semester			
Soc. Sci. Elective(s)		3	
Speech/Comp. Elec	ctive(s)	3	
	Credits	6	
Seventh Semester			
<u>ATT 258</u>	Engine Drivability	2	
CSS 200	Introduction to Network Security - Security+	4	
	Credits	6	
Eighth Semester			
<u>ATT 277</u>	Automotive Powertrain Systems	4	
CSS 285	Essentials of Automotive Penetration Testing	4	
	Credits	8	
Ninth Semester			
Select one of the fo	ollowing:	3	
<u>ATT 136</u> or <u>HST 136</u>	History of Transportation Technologies or History of Transportation Technologies		
Arts/Human. Ele	Arts/Human. Elective(s)		
Nat. Sci. Elective(s).	3	
	Credits	6	

Total Credits 61

Auto Service Concentration (ASVC)

First Semester		Credits
ATT 130	Automotive Service	4
ATT 131	Automotive Electrical	4
	Credits	8
Second Semester		
ATT 114	Applied Transportation Welding	2
ATT 132	Automotive Engines	4
	Credits	6
Third Semester		
Math Elective(s) 1		3
Writing Elective(s)		3
	Credits	6
Fourth Semester		
ATT 133	Automotive Fuel Systems	4

Students interested in a transfer pathway should consult with their academic advisor to select the most suitable math course for seamless transfer to a four-year institution.

ATT 134	Automotive Transmissions	4
	Credits	8
Fifth Semester		
<u>ATT 254</u>	Suspension and Steering Systems	2
ATT 257	Heating and Air Conditioning Systems	2
ATT 266	Advanced Transmissions	2
	Credits	6
Sixth Semester		
Soc. Sci. Elective(s)).	3
Speech/Comp. Ele	ctive(s)	3
	Credits	6
Seventh Semester	•	
ATT 251	Engine Diagnosis and Repair	2
ATT 255	Brake Systems	2
ATT 256	Electrical and Electronic Systems	4
	Credits	8
Eighth Semester		
ATT 258	Engine Drivability	2
APOETT Restricte	ed Elective(s) (ASVC)	4
	Credits	6
Ninth Semester		

ATT 136 or <u>HST 136</u>	History of Transportation Technologies or History of Transportation Technologies	
Arts/Human. Ele	ective(s)	
Nat. Sci. Elective(s	<u>)</u> .	3
	Credits	6
	Total Credits	60

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Electric Vehicle Service & Repair Concentration (EVSR)

First Semester		Credits
ATT 130	Automotive Service	4
ATT 131	Automotive Electrical	4
	Credits	8
Second Semester		
ATT 114	Applied Transportation Welding	2
ATT 132	Automotive Engines	4
	Credits	6

Third Semester		
Math Elective(s) 1		3
Writing Elective(s).	3
	Credits	6
Fourth Semester		
ATT 256	Electrical and Electronic Systems	4
ATT 280	Introduction to Electric Vehicles (EV)	4
	Credits	8
Fifth Semester		
ATT 254	Suspension and Steering Systems	2
ATT 257	Heating and Air Conditioning Systems	2
ATT 282	Electric Vehicle (EV) Energy Management	4
	Credits	8
Sixth Semester		
Soc. Sci. Elective(s).	3
Speech/Comp. Ele	ctive(s)	3
	Credits	6
Seventh Semester		
ATT 180	Alternative Vehicle Fundamentals & Safety	2
ATT 284	Electric Vehicle (EV) Drivelines & Chassis	4
ATT 286	Electric Vehicle (EV) Dynamometer Testing	2

	Credits	8
Eighth Semester		
ATT 255	Brake Systems	2
APOETT Restricte	ed Elective(s) (EVSR)	4
	Credits	6
Ninth Semester		
Select one of the f	following:	3
ATT 136 or <u>HST 136</u>	History of Transportation Technologies or History of Transportation Technologies	
Arts/Human. El	ective(s)	
Nat. Sci. Elective(s	5).	3
	Credits	6
	Total Credits	62

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 seamless transfer to a four-year institution.

ABDY Restricted Electives

ATT 131	Automotive Electrical	4
ATT 150	Custom Painting	4

	ATT 231	Project Management and Implementation in Auto Body	4
	ATT 260	Special Vehicle Prototyping	4
0	ASVC Res	tricted Electives	
	ATT 111	Introduction to Auto Body Repair	4
	ATT 180	Alternative Vehicle Fundamentals & Safety	2
	ATT 277	Automotive Powertrain Systems	4
	ATT 279	Automotive Dynamometer and Testing	4
0	EVSR Res	tricted Electives	
	<u>ATT 277</u>	Automotive Powertrain Systems	4
	ATT 279	Automotive Dynamometer and Testing	4

PROGRAM CHANGE FORM			
Program Code: APOETT	Current Program Name: Tr	ransportation	Effective Term: Fall 2025
Division Code: ATP	Department: Transportation	Technologies	
on a separate sheet. 3. Check the boxes below for eac new courses as part of the prop submitted at the same time as t 4. If changes affect the program a Assessment Plan Change form.	t should be deleted and write in type of change being proposed osed program change, must be he program change form. ssessment plan or if program of these changes must be approximate.	additions. Extensive d. Changes to cours approved separatel utcomes are updated yed separately from	e narrative changes can be included ses, discontinuing a course, or adding y using CurricUNET, but should be
Requested Changes: Remove course(s): _see p details for each concentration v Add course(s): _see prod details for each concentration v details for each concentration v Program title (new title is _ Description Advisors Program admission required Continuing eligibility required Show all changes on the catalogethic continuing eligibility required	within the degree gram outlines for full within the degree No ments ments ments g page you attach.	removing or add Program assess Accreditation int Other ote: A change to the of a new program program inactivation	sment plan* formation
more defined academic pathway. and help shape a targeted skill se integrate all required courses for degree. A new crosslisted course, ATT/H	degree is being updated to add This enhancement will improve et for students. Additionally, a ne earning both the Auto Cybersec ST 136: History of Transportatio	course scheduling, ew Auto Cybersecur urity Certificate and n Technologies, has	ogram's restricted electives, creating a support timely student completion, ity concentration has been added to the Transportation Technologies also been introduced. This course o contributing towards the liberal arts
Financial/staffing/equipment	space implications:		

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Allen Day	Allen Day /s/	11/11/24

List departments that have been consulted regarding their use of this program.

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Department Chair	Rocky Roberts	Rocky Roberts /s/	11/11/24
Division Dean/Administrator	Eva Samulski	Eva Samulski /s/	11/11/24
Please return comple	eted form to the Office o	f Curriculum & Assessment, SC 257	4
	-mail to curriculum.ass		
		es we will secure the signature of the VP	1 <mark>.</mark>
Reviewer	Print Name	Signature	Date
Curriculum Committee Chair	Randy Van Wagnen	Randy Van Wagnen	3/20/35
Assessment Committee Chair	Jessica Hale	Jessica Hale	3/20/25
Executive Vice President for Instruction	Dr. Brandon Tucker	Part	7/2/25
Do not write in shaded area	Entered in: Banner	C&A Database Log File	

Reviewed by C&A Committees 2/20/25

Advanced Manufacturing

Transportation Technologies (APOETT) Associate in Applied Science Degree

Program Effective Term: Fall 2024

High Demand Occupation High Skill Occupation High Wage Occupation

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, EV service or auto body repair 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 Body, Auto Service, or Electric Vehicle Service & Repair. 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.

Program Admission Requirements:

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

Minimum Concentration Credits Required for the Program:

Minimum Credits Required for the Concentration or Option: 60

60

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 Electric Vehicle Service & Repair.

Transportation Technologies Concentrations

Auto Body (AE	BDY)	(60 credits)
First Semester	r	(15 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
Second Semes	eter en	(15 credits)
ABR 123	Technical Auto Body Repair	4
ABR 124	Technical Automotive Refinishing	4
ABR 140	Aluminum Welding for Automotive Applications	4
Elective	Math Elective(s)	3
Third Semeste	er	(14 credits)
ASV 130	Automotive Maintenance	4
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Elective	Restricted Elective(s): ABR 116, ABR 130, ABR 209, ABR 231, ASV 131, MST 106, MST 230	4
Fourth Semes	ter	(16 credits)
ABR 121	Automotive Estimating	2
ABR 201	Lightweighting Composite Repair	4
Elective	Speech Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Elective	Restricted Elective(s): ABR 116, ABR 130, ABR 209, ABR 231, ASV 131, MST 106, MST 230	4

Auto Service (A	(SVC)	(62 credits)
Eiret Competer		(13 credits)
First Semester	Applied Auto Pody Wolding	`
ABR 114	Applied Auto Body Welding	2
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
Elective	Writing Elective(s)	3
Second Semest	er	(17 credits)
ABR 140	Aluminum Welding for Automotive Applications	4
ASV 132	Automotive Engines	4
ASV 133	Automotive Fuel Systems	4
ASV 254	Suspension and Steering	2
Elective	Math Elective(s)	3
Third Semester		(16 credits)
ASV 134	Automotive Transmissions	4
ASV 251	Engine Diagnosis and Repair	2
ASV 256	Electrical and Electronic Systems	2 4
Elective	Speech/Comp. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semeste	er	(16 credits)
ASV 255	Brakes	2
ASV 258	Engine Drivability	2
ASV 266	Advanced Transmissions	2
Elective	Nat. Sci. Elective(s)	2
Elective	Arts/Human. Elective(s)	3
Elective	Restricted Elective(s): ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, ASV 277, ASV 279, 200, CSS 205, CSS 285, CST 185, MST 110	CSS 4
Minimum Credi	ts Required for the Concentration or Option: 62	
Flectric Vehicle	Service & Repair (EVSR)	(60 credits)
Electric venicie	ocifice a repair (210K)	(oo creares)
First Semester		(16 credits)
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
ATT 180	Alternative Vehicle Fundamentals & Safety	2
Elective	Writing Elective(s)	3
Elective	Math Elective(s)	3
Second Semest	er	(15 credits)
ABR 114	Applied Auto Body Welding	2
ASV 256	Electrical and Electronic Systems	4
ATT 280	Introduction to Electric Vehicles (EV)	4
Elective	Nat. Sci. Elective(s)	3
Elective	Restricted Elective(s): ABR 111, ASV 135, ASV 174, ASV 266, ASV 274, ASV 277, ASV 279, CSS 200, 205, CSS 285, CST 185	CSS 2
Third Semester		(14 credits)
ASV 254	Suspension and Steering	2
ASV 257	Heating and Air Conditioning Systems	2
ATT 282	Electric Vehicle (EV) Energy Management	4
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Fourth Semeste		(15 credits)
ASV 255	Brakes	2
ATT 284	Electric Vehicle (EV) Drivelines & Chassis	4
ATT 286	Electric Vehicle (EV) Dynamometer Testing	2
Elective	Soc. Sci. Elective(s)	3
Elective	Restricted Elective(s): ABR 111, ASV 135, ASV 174, ASV 266, ASV 274, ASV 277, ASV 279, CSS 200, 205, CSS 285, CST 185	

Minimum Credits Required for the Program:

60

Transportation Technologies

Transportation Technologies (APOETT) Associate in Applied Science Degree

Program Effective Term: Fall 2024

High Demand Occupation High Skill Occupation High Wage Occupation

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, EV service or auto body repair fields. Students will learn using the latest technology, methods and tooling in their area of concentration.

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Program Admission Requirements:

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

Minimum Concentration Credits Required for the Program:

Minimum Credits Required for the Concentration or Option: 60

60

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 Electric Vehicle Service & Repair.

Transportation Technologies Concentrations

Auto Body (Al	BDY)	(60 credits)
First Semeste	r	(15 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
Second Semes	ster	(15 credits)
ABR 123	Technical Auto Body Repair	4
ABR 124	Technical Automotive Refinishing	4
ABR 140	Aluminum Welding for Automotive Applications	4
Elective	Math Elective(s)	3
Third Semeste	er	(14 credits)
ASV 130	Automotive Maintenance	4
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Elective	Restricted Elective(s): ABR 116, ABR 130, ABR 209, ABR 231, ASV 131, MST 106, MST 230	4
Fourth Semes	ter	(16 credits)
ABR 121	Automotive Estimating	2
ABR 201	Lightweighting Composite Repair	4
Elective	Speech Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Elective	Restricted Elective(s): ABR 116, ABR 130, ABR 209, ABR 231, ASV 131, MST 106, MST 230	4

Auto Service (A	(SVC)	(62 credits)
Eiret Competer		(13 credits)
First Semester	Applied Auto Pody Wolding	`
ABR 114	Applied Auto Body Welding	2
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
Elective	Writing Elective(s)	3
Second Semest	er	(17 credits)
ABR 140	Aluminum Welding for Automotive Applications	4
ASV 132	Automotive Engines	4
ASV 133	Automotive Fuel Systems	4
ASV 254	Suspension and Steering	2
Elective	Math Elective(s)	3
Third Semester		(16 credits)
ASV 134	Automotive Transmissions	4
ASV 251	Engine Diagnosis and Repair	2
ASV 256	Electrical and Electronic Systems	2 4
Elective	Speech/Comp. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Fourth Semeste	er	(16 credits)
ASV 255	Brakes	2
ASV 258	Engine Drivability	2
ASV 266	Advanced Transmissions	2
Elective	Nat. Sci. Elective(s)	2
Elective	Arts/Human. Elective(s)	3
Elective	Restricted Elective(s): ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, ASV 277, ASV 279, 200, CSS 205, CSS 285, CST 185, MST 110	CSS 4
Minimum Credi	ts Required for the Concentration or Option: 62	
Flectric Vehicle	Service & Repair (EVSR)	(60 credits)
Electric venicie	ocifice a repair (210K)	(oo creares)
First Semester		(16 credits)
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
ATT 180	Alternative Vehicle Fundamentals & Safety	2
Elective	Writing Elective(s)	3
Elective	Math Elective(s)	3
Second Semest	er	(15 credits)
ABR 114	Applied Auto Body Welding	2
ASV 256	Electrical and Electronic Systems	4
ATT 280	Introduction to Electric Vehicles (EV)	4
Elective	Nat. Sci. Elective(s)	3
Elective	Restricted Elective(s): ABR 111, ASV 135, ASV 174, ASV 266, ASV 274, ASV 277, ASV 279, CSS 200, 205, CSS 285, CST 185	CSS 2
Third Semester		(14 credits)
ASV 254	Suspension and Steering	2
ASV 257	Heating and Air Conditioning Systems	2
ATT 282	Electric Vehicle (EV) Energy Management	4
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Fourth Semeste		(15 credits)
ASV 255	Brakes	2
ATT 284	Electric Vehicle (EV) Drivelines & Chassis	4
ATT 286	Electric Vehicle (EV) Dynamometer Testing	2
Elective	Soc. Sci. Elective(s)	3
Elective	Restricted Elective(s): ABR 111, ASV 135, ASV 174, ASV 266, ASV 274, ASV 277, ASV 279, CSS 200, 205, CSS 285, CST 185	

Minimum Credits Required for the Program:

60

Effective Term: Fall 2024

PROGRAM CHANGE FORM

Program Code: APOETT

Program Code: APOETT	Current Program Name: T Technologies	ransportation	Effective Term:	Fall 2024	
Division Code: ATP	Department: TRPD				
 Directions: Attach the current program listing from the WCC catalog or website and indicate any changes to be made. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using CurricUNET, but should be submitted at the same time as the program change form. If changes affect the program assessment plan or if program outcomes are updated, please submit a <u>Program Assessment Plan Change</u> form. These changes must be approved separately from the program change form and should be submitted at the same time. Current program assessment plans can be found on the <u>Curriculum and Assessment Program Information page</u>. 					
Requested Changes:	7				
Remove course(s): Add course(s): Program title (new title is Description Advisors Program admission requires Continuing eligibility requires) [[ments	Program outcome removing or add Program assess Accreditation inf Other Layout chas ASVC concentration	ment plan* ormation anges for existing		
	Show all changes on the catalog page you attach. Note: A change to the Award Type requires the submission of a new program proposal form and a separate program inactivation form. Contact the Director of Curriculum & Assessment for more information.				
Rationale for proposed chan	ges:				
The EVSR concentration is being developed in coordination with the electric vehicle (EV) DOE training grant known internally as the Power Project and as a result of collaboration with the EV jobs academy (EVJA), Center for Connected and Automated Transportation (CCAT), Detroit Drives Degrees Community College Collaborative (D3C3) along with the ATT advisory board discussions consisting of industry partners and leaders. These groups and employers were able to identify the key areas and skills needed for students to be successful in this career field. Division is updating layouts to align with forthcoming part-time layouts.					
Financial/staffing/equipment	space implications:				
List departments that have been consulted regarding their use of this program.					
Signatures:					
Reviewer	Print Name	Signa	ature	Date	
Initiator	Shawn Deron Rocky Roberts	Rocky Rob	ext	2/1/24	

Received by C&A 1/11/24; 2/1/24 WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Department Chair	Rocky Roberts	Rochy Robert	2/1/24
Division Dean/Administrator	Jimmie Baber	Jimmis Baber	2/1/24
		of Curriculum & Assessment, SC	257
or by	e-mail to curriculum.ass	essment@wccnet.edu	2005002022
Once reviewed by the ap	propriate faculty committe	es we will secure the signature of t	he VPI.
Reviewer	Print Name	Signature	Date
Curriculum Committee Chair	Randy Van Wagnen	RVadWagnen	2-12-24
Assessment Committee Chair	Jessical Hale	Jessica Hale	2-13-24
Interim Vice President for Instruction	Dr. Brandon Tucker	RAD	2/10/24

Reviewed by C&A committees on 2/8/24

Manufacturing & Automotive

Transportation Technologies (APOETT) Associate in Applied Science Degree

Program Effective Term: Fall 2023

High Demand Occupation High Skill Occupation High Wage Occupation

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 or auto body repair 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 or Auto Body. 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.

Program Admission Requirements:

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

Minimum Credits Required for the Concentration or Option: 62

Minimum Concentration Credits Required for the Program:

62

Select a specialized track in one of the following areas, each of which has its own associated certificated program(s): Auto Service or Auto Body.

Transportation Technologies Concentrations

Auto Body (AB	DY)	(62 credits)
First Semester		(15 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
Second Semes	ter	(18 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
Third Semeste	r	(14 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
Fourth Semest	er	(15 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

Auto Service (A	SVC)	(62 credits)
First Semester		(16 credits)
ABR 114	Applied Auto Body Welding	(10 credits)
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
Elective	Writing Elective(s)	3
Elective	Math Elective(s)	3
Second Semest	er	(18 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, 200, CSS 205, CSS 285, CST 185, MST 110	CSS 2
Third Semester		(14 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
Fourth Semeste	er	(14 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, 200, CSS 205, CSS 285, CST 185, MST 110	CSS 2
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Minimum Credit	ts Required for the Concentration or Option: 62	

Minimum Credits Required for the Program:

62

Program Discontinuation Form

Program Code: APOETT-	Program Name: Transportation Technologies (Motorcycle Service Concentration)	Effective Term: Fall 2023
Division Code: ATP	Department: Transportation Technology	

Directions: Complete all information below.

Rationale for discontinuation:

APOETT - MSVC					
	2018-19	2019-20	2020-21	2021-22	
Enrollment	56	40	34	29	
Awards	0	0	0	2	

Over the last five years, we have seen a downward trend in enrollment in the MSVC concentration, with only two degrees awarded. We are discontinuing this concentration as part of the transition toward an electric vehicle (EV) focus.

Describe the discontinuation, transition and course phase-out plan. Please include the number of currently enrolled students.

There are 14 students enrolled in this program code. Motorcycle course offerings will be significantly reduced by 2025 as students finish or transition to other programs, and will be eliminated by the end of the three-year phase-out period (end of Summer 2026). Students were notified on June 5th via letter.

List departments using this program and the date they were notified of the planned discontinuation.

N/A

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Jimmie Baber	Jimmie Baber	6/23/23
Department Chair	Rocky Roberts/Mike Duff	Rocky Roberts/Mike Duff	6/23/23
Division Dean/Administrator	Jimmie Baber	Jimmie Baber	6/23/23
	curriculum.assessn	riculum and Assessment (SC 257) of the details and the second sec	
Curriculum Committee Chair	Randy Van Wagnen	RVanWagnen	08-31-23
Vice President of Instruction	Victor Vega	Vita	9/5/2023
President	Rose B. Bellanca	Rose & B Maria	9/5/23

C&A Database

Log File

Reviewed by C&A Committees 8/3/23

Board Approval

Do not write in shaded area. Entered in: Banner

Manufacturing & Automotive

Transportation Technologies (APOETT) Associate in Applied Science Degree

Program Effective Term: Fall 2022

High Demand Occupation High Skill Occupation High Wage Occupation

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.

Program Admission Requirements:

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

Minimum Concentration Credits Required for the Program:

Minimum Credits Required for the Concentration or Option: 62

61

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.

Transportation Technologies Concentrations

Auto Body (AB	DY)	(62 credits)
First Semester		(15 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
Second Semest	ter	(18 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
Third Semester		(14 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
Fourth Semest		(15 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

Auto Service (A	SVC)	(62 credits)
		(4.6 11:)
First Semester	Applied Aste Pedy Welding	(16 credits)
ABR 114	Applied Auto Body Welding	2
ASV 130 ASV 131	Automotive Maintenance Automotive Electrical	4
Elective	Writing Elective(s)	4
Elective	Math Elective(s)	3
Liccurc	Pidth Licetive(3)	3
Second Semeste	er en	(18 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, ASV 266, ASV 274, ASV 277, ASV 279, ASV 266, ASV 274, ASV 277, ASV 279, ASV 27	CSS 2
	200, CSS 205, CSS 285, CST 185, MST 110	
Third Semester		(14 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
Fourth Semeste	w	(14 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,	
	200, CSS 205, CSS 285, CST 185, MST 110	
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Minimum Cradit	s Required for the Concentration or Option: 62	
Milliniani Crean	s Required for the Concentration of Option: 62	
Motorcycle Serv	rice (MSVC)	(61 credits)
First Semester		(16 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 Elective	Writing Elective(s) Math Elective(s)	3
Liective	Platfi Liective(3)	3
Second Semeste	er	(14 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
Third Semester		(16 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
Founds Co.	<u>.</u>	(4E !!)
Fourth Semeste ABR 140	Aluminum Welding for Automotive Applications	(15 credits)
MST 210	Performance Engine Technology	4
MST 225	Advanced Dynamometer Tuning Systems	4
Elective	Soc. Sci. Elective(s)	3
Minimum Credit	s Required for the Concentration or Option: 61	

Minimum Credits Required for the Program:

61

PROGRAM CHANGE FORM

Program Code: APOETT	Current Program Na Technologies	me: Transportation	Effective Term: I	Fall 2022
Division Code: ATP	Department: Transporter Technologies	ortation		
Directions:	V			
1. Attach the current program lis	ting from the WCC catalog	or website and indicate a	any changes to be mad	de.
Draw lines through any text th on a separate sheet.	nat should be deleted and w	vrite in additions. Extensi	ve narrative changes c	an be included
Check the boxes below for earnew courses as part of the prosubmitted at the same time as	pposed program change, m	ust be approved separate		
 If changes affect the program <u>Assessment Plan Change</u> for should be submitted at the sal <u>Assessment Program Informa</u> 	n. These changes must be me time. Current program a	approved separately from	n the program change	form and
Requested Changes:				
X Remove course(s): See at X Add course(s): See attache □ Program title (new title is □ Description	ed	removing or ac ☐ Program as: ☐ Accreditatio		sult from
☐ Advisors☐ Program admission require	monte	□ Other		
☐ Continuing eligibility require			e Award Type requires	
Show all changes on the catal * Please submit a Program Ass		program inactiva Curriculum & Ass	tion form. Contact the sessment for more info	Director of
Rationale for proposed cha Minor changes and corrections concentration applicable course reviewed the students' pathway	nges: to: Course contact hours, (e(s), Reviewed and refined	Course(s) removed that w the restricted elective cou	urse list(s) per concent	
Financial/staffing/equipmer	nt/space implications:			
List departments that have All departments that are affect	•		rogram.	
Ciamoturas				
Signatures:	Print Name	e!	naturo	Date

Reviewer	Print Name	Signature	Date
Initiator	Alyn Day	Nun Br	12/6/2021
Department Chair	Rocky Roberts/Mike Duff	Realizy Parfect	12/6/6,
Division Dean/Administrator	Johnson Mis US	1 min	12/9/2021
	or by e-mail to curriculum.ass	of Curriculum & Assessment, Sessment@wccnet.edu will secure the signature of the VPI	
Reviewer	Print Name	Signature	Date

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Curriculum Committee Chair	Randy Van Wagnen	RVmh	2-7-22
Assessment Committee Chair	StanDoen		0.11.33
Vice President for Instruction	Kimberly Hurns	Anh	2/10/22
Do not write in shad	ed area. Entered in: Banner	C&A/Database Log Fil	e

Reviewed by C&A Committees 1/27/22

Manufacturing & Automotive

Transportation Technologies (APOETT)

Associate in Applied Science Degree Program Effective Term: Fall 2022

High Demand Occupation High Skill Occupation High Wage Occupation

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.

Program Admission Requirements:

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

Minimum Concentration Credits Required for the Program:

60

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.

Transportation Technologies Concentrations

Auto Body (AB	DY) (6	0 credits)
First Semester	,	6 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
Second Semes	ter (1	6 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 MS 230.	T 2
Third Semeste	· · · · · · · · · · · · · · · · · · ·	6 credits)
ABR 140	Aluminum Welding for Automotive Applications	4
ABR 135 or	Collision-Related Mechanical and Electrical Repairs	
ASV 130	Automotive Maintenance	4
	Restricted Elective(s): Select a minimum of 2 credits from ABR 116, ABR 130, ABR 231, MST 106, or MS 230.	T 2
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Fourth Semest	er (1	2 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 MS 230.	T 2
Elective	Nat. Sci. Elective(s)	3
LIECTIVE	Nat. Sci. Licetive(3)	
Elective	Soc. Sci. Elective(s)	3

Auto Service (A	ASVC)	(61 credits)
First Semester		(16 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 270, ASV 2 ASV 279, CST 185, MST 110, MTT 102, or WAF 105.	277, 2
Elective	Math Elective(s)	3
Elective	Writing Elective(s)	3
Second Semest	er e	(17 credits)
ASV 132	Automotive Engines	4
ASV 133	Automotive Fuel Systems	4
ASV 134	Automotive Transmissions	4
ASV 135	Facility Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 140 or WAF 103.	3 2
Third Semester		(16 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
		(40 111)
Fourth Semeste		(12 credits)
ASV 251 ASV 257	Engine Diagnosis and Repair Heating and Air Conditioning Systems	2
ASV 257 ASV 266	Advanced Transmissions	2
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Minimum Credi	ts Required for the Concentration or Option: 61	
Motorcycle Ser	vice (MSVC)	(60 credits)
Motorcycle Ser First Semester	vice (MSVC)	(60 credits)
First Semester	vice (MSVC) Motorcycle Service Technology I	
First Semester MST 110 ABR 114 or	Motorcycle Service Technology I Applied Auto Body Welding	(16 credits)
First Semester MST 110	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes	(16 credits) 4
First Semester MST 110 ABR 114 or	Motorcycle Service Technology I Applied Auto Body Welding	(16 credits) 4
First Semester MST 110 ABR 114 or	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s)	(16 credits) 4
First Semester MST 110 ABR 114 or WAF 105	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112.	(16 credits) 4 2 MST 4
First Semester MST 110 ABR 114 or WAF 105 Elective Elective	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s)	(16 credits) 4 MST 4 3 3
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s)	(16 credits) 4 2 MST 4 3 3 (14 credits)
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s)	(16 credits) 4 MST 4 3 3
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II	(16 credits) 4 MST 4 3 3 (14 credits)
First Semester MST 110 ABR 114 or WAF 105 Elective Elective	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III	(16 credits) 4 MST 4 3 3 (14 credits) 4 4
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies	(16 credits) 4 MST 4 3 3 (14 credits) 4 4
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N	(16 credits) 4 MST 4 3 3 (14 credits) 4 4
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112.	(16 credits) 4 MST 4 3 3 (14 credits) 4 4
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding	(16 credits) 4 MST 4 3 3 (14 credits) 4 4 MST 2
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103 Third Semester	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding	(16 credits) 4 MST 4 3 3 (14 credits) 4 4 MST 2
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103 Third Semester MST 140	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding	(16 credits) 4 MST 4 3 3 (14 credits) 4 4 MST 2
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV	(16 credits) 4 MST 4 3 3 (14 credits) 4 4 MST 2 (16 credits) 4 4
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103 Third Semester MST 140	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Speech/Comp. Elective(s)	(16 credits) 4 MST 4 3 3 (14 credits) 4 4 MST 2 (16 credits) 4 4
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103 Third Semester MST 140 MST 220	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112.	(16 credits) 4 MST 4 3 3 (14 credits) 4 4 MST 2 (16 credits) 4 MST 2
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103 Third Semester MST 140 MST 220 Elective Elective	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Speech/Comp. Elective(s) Arts/Human. Elective(s)	(16 credits) 4 MST 4 (14 credits) 4 MST 2 MST 2 (16 credits) 4 MST 2 (18 credits) 3 3
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103 Third Semester MST 140 MST 220 Elective Elective Fourth Semester	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Speech/Comp. Elective(s) Arts/Human. Elective(s)	(16 credits) 4 MST 4 3 3 (14 credits) 4 4 MST 2 (16 credits) 4 MST 2 3
First Semester MST 110 ABR 114 or WAF 105 Elective Elective Second Semest MST 120 MST 130 MTT 102 or MST 230 ABR 140 or WAF 103 Third Semester MST 140 MST 220 Elective Elective	Motorcycle Service Technology I Applied Auto Body Welding Introduction to Welding Processes Restricted Elective(s): Select a minimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Writing Elective(s) Math Elective(s) er Motorcycle Service Technology II Motorcycle Service Technology III Machining for the Technologies Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Speech/Comp. Elective(s) Arts/Human. Elective(s)	(16 credits) 4 MST 4 (14 credits) 4 MST 2 MST 2 (16 credits) 4 MST 2 (18 credits) 3 3

Minimum Cr	edits Required for the Program:		60
Minimum Cr	edits Required for the Concentrat	tion or Option: 60	
Elective Elective	Nat. Sci. Elective(s) Soc. Sci. Elective(s)		3
E1	N I C ' El I' / \		

Manufacturing & Automotive

Transportation Technologies (APOETT)

Associate in Applied Science Degree
Program Effective Term: Fall 2020

High Demand Occupation High Skill Occupation High Wage Occupation

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.

Program Admission Requirements:

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

Minimum Concentration Credits Required for the Program:

60

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.

Transportation Technologies Concentrations

Auto Body (AB	DY)	(60 credits)
First Semester		(16 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)	2
Elective	Math Elective(s)	3
Second Semest	ter	(16 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 N 230.	MST 2
Third Semester		(16 credits)
ABR 140	Aluminum Welding for Automotive Applications	4
ABR 135 or	Collision-Related Mechanical and Electrical Repairs	
ASV 130	Automotive Maintenance	4
	Restricted Elective(s): Select a minimum of 2 credits from ABR 116, ABR 130, ABR 231, MST 106, or N 230.	MST 2
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Fourth Semeste	er	(12 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 N 230.	MST 2
Elective	Nat. Sci. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Minimum Credi	its Required for the Concentration or Option: 60	

Auto Service (A	SVC)	(61 credits)
First Semester		(16 credits)
ASV 130	Automotive Maintenance	4
ASV 130 ASV 131	Automotive Electrical	4
M2A 121	Restricted Electrical Restricted Electrical Restricted Electrical Restricted Electrical	
		270, 2
Elective	ASV 277, ASV 279, CST 185, MST 110, MTT 102, or WAF 105.	3
	Math Elective(s)	3
Elective	Writing Elective(s)	3
Second Semest	er er	(17 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
Third Semester		(16 anodita)
ASV 254	Suspension and Steering	(16 credits)
ASV 254 ASV 255	Brakes	2
ASV 255	Electrical and Electronic Systems	
ASV 258	Engine Drivability	4 2
Elective	Speech/Comp Elective(s)	
		3
Elective	Arts/Human Elective(s)	3
Fourth Semeste	er en	(12 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)	2 3
Elective	Soc. Sci. Elective(s)	3
Minimum Credi	ts Required for the Concentration or Option: 61	
Motorcycle Ser	vice (MSVC)	(60 credits)
		(10 111)
First Semester		(16 credits)
MST 110	Motorcycle Service Technology I	4
ABR 114 or	Applied Auto Body Welding	0
WAF 105	Introduction to Welding Processes	2
	Restricted Elective(s): Select a mimimum of 4 credits from ABR 119, ABR 201, ASV 130, MST 106, or	MST 4
	112.	_
Elective	Writing Elective(s)	3
Elective	Math Elective(s)	3
Second Semest	er	(14 credits)
MST 120	Motorcycle Service Technology II	4
MST 130	Motorcycle Service Technology III	4
MTT 102 or	, 5,	
MST 230	Machining for the Lechnologies	
1151 250	Machining for the Technologies Advanced Motorcycle Fabrication	
	Advanced Motorcycle Fabrication	2
	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N	2
ABD 140 or	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112.	2
ABR 140 or	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications	2 MST 2
ABR 140 or WAF 103	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112.	2
WAF 103	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding	2 MST 2
WAF 103 Third Semester	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding	2 MST 2
WAF 103 Third Semester MST 140	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV	2 MST 2 2 (16 credits)
WAF 103 Third Semester	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations	2 MST 2 2 (16 credits) 4 4
WAF 103 Third Semester MST 140	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N	2 MST 2 2 (16 credits) 4 4
WAF 103 Third Semester MST 140 MST 220	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112.	2 MST 2 2 (16 credits) 4 4 MST 2
WAF 103 Third Semester MST 140 MST 220 Elective	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Speech/Comp. Elective(s)	2 MST 2 2 (16 credits) 4 4 MST 2
WAF 103 Third Semester MST 140 MST 220	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112.	2 MST 2 2 (16 credits) 4 4 MST 2
WAF 103 Third Semester MST 140 MST 220 Elective Elective Fourth Semester	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Speech/Comp. Elective(s) Arts/Human. Elective(s)	2 MST 2 2 (16 credits) 4 4 MST 2
WAF 103 Third Semester MST 140 MST 220 Elective Elective	Advanced Motorcycle Fabrication Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Aluminum Welding for Automotive Applications Introduction to Gas Tungsten Arc Welding Motorcycle Service Technology IV Dynamometer Operations Restricted Elective(s): Select a minimum of 2 credits from ABR 119, ABR 201, ASV 130, MST 106, or N 112. Speech/Comp. Elective(s) Arts/Human. Elective(s)	2 MST 2 (16 credits) 4 MST 2

Minimum Cred	lits Required for the Program:		60
Minimum Cred	lits Required for the Concentration or Option: 6	50	
Elective	Soc. Sci. Elective(s)		3
Elective	Nat. Sci. Elective(s)		3

PROGRAM PROPOSAL FORM

- **X** Preliminary Approval Check here when using this form for preliminary approval of a program proposal, and respond to the items in general terms.
- Final Approval Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

Program Name:	Transportation Technologies (APOETT)	Program	
Division and Department:	ATP Division - Transportation Technologies	Code:	
Type of Award:	□ AA □AS X AAS	APOETT	
Effective Term/Year:	□ Cert. □ Adv. Cert. □ Post-Assoc. Cert. □ Cert. of Comp.		
Initiator:	<u>Fall 2020</u>	CIP Code:	
	Transportation Technologies Faculty (Allen Day, Robert Lowing, Shawn Deron)	47.0604	
Program Features Program's purpose and its goals.	This program is intended to allow for a degree path for the newly combined/formed Transportation Technologies Department.	·	
Criteria for entry into the program, along with projected enrollment figures.	This program allows students to design a program of study to meet needs, and is a desirable option for students who are focusing on a the transportation industry. This program allows for customization of	career in	
Connection to other WCC programs, as well as accrediting agencies or professional organizations.	the transportation industry. This program allows for customization of coursework to meet the requirements of the transfer college or university. An advisor can help students determine interests, career and educational goals, as well as provide transfer and career information.		
Special features of the program.	Students will select a specialized track in one of the following areas, which currently has its own certificate programs.	each of	
	Automotive Service (CTASVT, CVASV2) Auto Body Repair (CTAUBR) Motorcycle Service Technology (CTMST1, CVMST2)		
Need for the program with evidence to support the stated need.	Employers in the transportation sectors are experiencing a gap betw supply of skilled workers and the demand for job ready employees. Currently lists over 80,000 job openings around the United States in and over 2,000 in Michigan. The Bureau of labor statistics anticipate average projected growth (4-9%) between 2018-2028. The medians 2019 was \$15.00-\$24.50 hourly or \$36,790 to \$47,350 annually. This program is the combination of several existing programs that have esuccessfully at WCC. All of these programs are active and have graevery academic year. This program proposal (APOETT) will be accountly program updates(CTAUBR, CTASVT) and proposal (CVASV2) streamline a student's chosen concentration within the Transportation Technologies Department. All of the proposed programs and prografocus on a guided pathway for students to complete certificates and for their selected concentrations. These proposals and updates are produce a better prepared student for employment opportunities and increased completion rate.	ndeed.com these fields s an salary in s degree xisted duates mpanied to align and n m updates degrees intended to	

Program Outcomes/Assessment

State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.

Include assessment methods that will be used to determine the effectiveness of the program.

Outcomes

concentration.

Other

- 1. Demonstrate the mastery of skills related to the student's technical concentration.
- 2. Apply critical thinking skills to solve an identified problem in the student's technical concentration.
- 3. Demonstrate and apply required industry related safety standards.

Assessmentmethod

- 1. Technical artifacts embedded in the certificate capstone courses within the chosen concentration.
- 2.Technical artifacts embedded in the certificate capstone courses within the chosen concentration.
- 3.Technical artifacts embedded in the certificate capstone courses within the chosen concentration.

Curriculum

List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list,

Associate degree programs must provide a semester by semester program layout.

Budget

Specify program costs in the following areas, per academic year:

 All of the programs that are involved are already established and currently have an existing budget. The ongoing coast are already forecast into the current budget.

	START-UP COSTS		ONGOING COSTS	
Faculty	\$	•	\$	
Training/Travel		•		•
Materials/Resources		X.*		
Facilities/Equipment		121	<u> </u>	

Please see the attached spreadsheet for the semester breakdown for each

Program Description for Catalog and Web site

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 Certificate Program(s).

- Auto Service
- Auto Body
- Motorcycle Service

TOTALS:

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

\$

	advisor for assistance in developing a concentration of study. An advisor can help determine career interests and educational goals, as well as provide transfer and career information.
Program Information	Accreditation/Licensure -
	Advisors - Allen Day, Justin Morningstar, Bob Lowing, Tim VanSchoick, Shawn Deron, Niki Lee
	Advisory Committee - Automotive - Auto Body
	Admission requirements - College entry scores in Math (3), Reading (6) and Writing(6)
	Articulation agreements - None
	Continuing eligibility requirements -

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number of students to be assessed
Demonstrate the mastery of skills related to the students technical concentration.	MST 140 Capstone course project MST 225 capstone course project ABR 123 capstone course project ASV 256 capstone course project ASV 258 capstone course project	Fall 2024	All Sections of MST 140 and MST 225 All Sections of ABR 123 All Sections of ASV 256 and 258	All Students
Apply critical thinking skills to solve an identified problem in the students technical concentration.	MST 140 Capstone course project MST 225 capstone course project ABR 123 capstone course project ASV 256 capstone course project ASV 258 capstone course project	Fall 2024	All Sections of MST 140 and MST 225 All Sections of ABR 123 All Sections of ASV 256 and 258	All Students
Demonstrate and apply required industry related safety standards.	MST 140 Capstone course project MST 225 capstone course project ABR 201 capstone course project ASV 256 capstone course project ASV 258 capstone course project	Fall 2024	All Sections of MST 140 and MST 225 All Sections of ABR 201 All Sections of ASV 256 and 258	All Students

Scoring and analysis plan:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally-developed rubric, external evaluation, other). Attach the rubric.

All outcomes will be scored using a departmentally developed rubric(s)

2. Indicate the standard of success to be used for this assessment.

On all outcomes 70% of all students will score 70% or higher on the outcome related rubric items.

3. Indicate who will score and analyze the data.

Department Faculty.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Augn Day Morangly	aus/ Sally	12/12/2019
Dean	Brandon Tuck	MS	idalic
Curriculum Committee Chair	HisaVeasey	Lisalreage	1/30/20
Once reviewed by the approp Vice President for Instruction		Curriculum and Assessment (SC 257 will secure the signature of the VPI at	
☐ Approved for Development☐ Final Approval		Tormit	2/3/000
President	Rose Bellanca	here B. Delenle	5/20/20
Board Approval			4/28/20

Reviewed by C+A Committees
1/23/20
Program Proposal

Office of Curriculum & Assessment
Form 2018

	ASV OET	Т			MST OET	Т			ABR O	ETT	
1st Semester		3rd Semester		1st Semester		3rd Semester		1st Semester		3rd Semester	
ASV 130	4	ASV 254	2	MST 110	4	MST 140	4	ABR 111	4	ABR 135 or ASV 130	4
ASV 131	4	ASV 255	2	Restrictied Electives 2	4	MST 220	4	ABR 112	4	ABR 140	4
Restrictied Electives 1	3	ASV 256	4	ABR 114 or WAF 105	2	Restrictied Electives 2	2	ABR 114	2	Restrictied Electives 3	2
Math	3	ASV 258	2	Math	3	Arts/Humanity	3	Math	3	Arts/Humanity	3
Writing/Composisiton	2	Arts/Humanity	3	Writing/Composisiton	3	Writing/Composisiton	3	Writing/Composisiton	3	Writing/Composisiton	3
Total	16	Writing/Composisiton	3	Total	16	Total	16	Total	16	Total	16
		Total	16								
2nd Semester		4th Semester		2nd Semester		4th Semester		2nd Semester		4th Semester	
ASV 135	2	ASV 257	2	MST 120	4	MST 225	4	ABR 123	4	ABR 201	4
ASV 132	4	ASV 264	2	MST 130	4	MST 210	4	ABR 124	4	Restrictied Electives 3	2
ASV 133	4	ASV 251	2	MTT 102 or MST 230	2	Natual Sciences	3	ABR 113	4	Natual Sciences	3
ASV 134	4	Natual Sciences	3	Restrictied Electives 2	2	Social/Behavorial	3	ABR 119	2	Social/Behavorial	3
Restrictied Electives 4	2	Social/Behavorial	3	ABR 140 or WAF 103	2	Total	14	Restrictied Electives 3	2	Total	12
Total	16	Total	12	Total	14			Total	16		
		Total	60			Total	60			Total	60
RE list 1 - ASV 174, ASV	/ 269, ASV 2	70, ASV 277, ASV 279,		RE list 2 - ABR 119, ABI	R 201, ASV 1	30, MST 106, MST 112		RE list 3 - ABR 116, ABI	R 130,ABI	R 231, MST 106, MST 230	
RE list 4 - ABR 140, WA	E 103		1								