

Program Information Report

Advanced Manufacturing

Powertrain Development Technician (APPDT)

Associate in Applied Science Degree

Program Effective Term: Fall 2024

In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.

First Semester		(13 credits)
ABR 114	Applied Auto Body Welding	2
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
Elective	Writing Elective(s)	3
Second Semester		(15 credits)
ABR 140	Aluminum Welding for Automotive Applications	4
ASV 132	Automotive Engines	4
ASV 256	Electrical and Electronic Systems	4
Elective	Math Elective(s)	3
Third Semester		(16 credits)
ASV 277	Automotive Powertrain Systems	4
MST 220	Dynamometer Operations	4
Elective	Speech/Comp. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Elective	Restricted Electives: ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, CSS 200, CSS 205, CST 185, MST 110	2
Fourth Semester		(17 credits)
ASV 279	Automotive Dynamometer and Test	4
MST 230	Advanced Motorcycle Fabrication	3
Elective	Nat. Sci. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Elective	Restricted Electives: ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, CSS 200, CSS 205, CST 185, MST 110	4

Minimum Credits Required for the Program:**61****Notes:**

Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page <https://www.wccnet.edu/learn/transfer-wcc-credits/mta.php> for more information.

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Program Code: APPDT	Current Program Name: Powertrain Development Technician	Effective Term: Fall 2024
Division Code: ATP	Department: TRPD	

Directions:

1. Attach the current program listing from the WCC catalog or website and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. 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.
4. If changes affect the program assessment plan or if program outcomes are updated, please submit a Program Assessment Plan Change 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 Curriculum and Assessment Program Information page.

Requested Changes:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Remove course(s): <u>MTH elective credit hour change</u> | <input type="checkbox"/> Program outcomes (may also result from removing or adding a course)* |
| <input checked="" type="checkbox"/> Add course(s): <u>MTH elective credit hour change</u> | <input type="checkbox"/> Program assessment plan* |
| <input type="checkbox"/> Program title (new title is _____) | <input type="checkbox"/> Accreditation information |
| <input type="checkbox"/> Description | <input checked="" type="checkbox"/> Other <u>Layout changes</u> |
| <input type="checkbox"/> Advisors | |
| <input type="checkbox"/> Program admission requirements | |
| <input type="checkbox"/> Continuing eligibility requirements | |

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.

Show all changes on the catalog page you attach.

* Please submit a Program Assessment Plan Change form.

Rationale for proposed changes:

Division is updating layouts to align with forthcoming part-time layouts

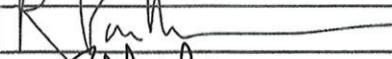

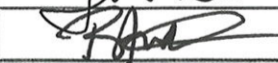
Financial/staffing/equipment/space implications:

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

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Rocky Roberts	<i>Rocky Roberts</i>	1/11/24
Department Chair	Rocky Roberts	<i>Rocky Roberts</i>	1/11/24
Division Dean/Administrator	Jimmie Baber	<i>Jimmie Baber</i>	1/11/24
Please return completed form to the Office of Curriculum & Assessment, SC 257 or by e-mail to curriculum.assessment@wccnet.edu Once reviewed by the appropriate faculty committees we will secure the signature of the VPI.			
Reviewer	Print Name	Signature	Date

PROGRAM CHANGE FORM

Curriculum Committee Chair	Randy Van Wagnen		2-5-24
Assessment Committee Chair	Jessica Hale		2/8/24
Interim Vice President for Instruction	Brandon Tucker		2/15/24

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Program Information Report

Manufacturing & Automotive

Powertrain Development Technician (APPDT)

Associate in Applied Science Degree

Program Effective Term: Fall 2022

In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.

First Semester		(16 credits)
ABR 114	Applied Auto Body Welding	2
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
Elective	Writing Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Second Semester		(16 credits)
ABR 140	Aluminum Welding for Automotive Applications	4
ASV 132	Automotive Engines	4
ASV 256	Electrical and Electronic Systems	4
Elective	Math Elective(s)	4
Third Semester		(15 credits)
ASV 277	Automotive Powertrain Systems	4
MST 230	Advanced Motorcycle Fabrication	3
Elective	Restricted Electives: ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, CSS 200, CSS 205, CST 185, MST 110	2
Elective	Speech/Comp. Elective(s)	3
Elective	Arts/Human. Elective(s)	3
Fourth Semester		(15 credits)
ASV 279	Automotive Dynamometer and Test	4
MST 220	Dynamometer Operations	4
Elective	Restricted Electives: ABR 111, ASV 135, ASV 174, ASV 257, ASV 266, ASV 274, CSS 200, CSS 205, CST 185, MST 110	4
Elective	Soc. Sci. Elective(s)	3

Minimum Credits Required for the Program: 62

Notes:

Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page <https://www.wccnet.edu/learn/transfer-wcc-credits/mta.php> for more information.

WASHTENAW COMMUNITY COLLEGE

PROGRAM CHANGE FORM

Program Code: APPDT	Current Program Name: Powertrain Development Technician	Effective Term: Fall 2022
Division Code: ATP	Department: Transportation Technologies	

Directions:

1. Attach the current program listing from the WCC catalog or website and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. 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.
4. If changes affect the program assessment plan or if program outcomes are updated, please submit a Program Assessment Plan Change 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 Curriculum and Assessment Program Information page.

Requested Changes:

- X Remove course(s): See attached
- X Add course(s): See attached
- Program title (new title is _____)
- Description
- Advisors
- Program admission requirements
- Continuing eligibility requirements
- Program outcomes (may also result from removing or adding a course)*
- Program assessment plan*
- Accreditation information
- Other _____

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.

Show all changes on the catalog page you attach.

* Please submit a Program Assessment Plan Change form.

Rationale for proposed changes:

Minor changes and corrections to: Course contact hours, Course(s) removed that were inactivated and replaced with concentration applicable course(s), Reviewed and refined the restricted elective course list(s) per concentration and reviewed the students' pathway to completion based on frequency of scheduling (Sun/Moon chart).

Financial/staffing/equipment/space implications:





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

All departments that are affected have been consulted.

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	<i>Austin Day</i>	<i>Austin Day</i>	12/6/2021
Department Chair	Rocky Roberts/Mike Duff	<i>Rocky Roberts</i>	12/6/21
Division Dean/Administrator	<i>J. Bishop</i>	<i>J. Bishop</i>	12/9/2021
<p>Please return completed form to the Office of Curriculum & Assessment, SC 257 or by e-mail to curriculum.assessment@wccnet.edu</p> <p>Once reviewed by the appropriate faculty committees we will secure the signature of the VPI and President.</p>			
Reviewer	Print Name	Signature	Date

PROGRAM CHANGE FORM

Curriculum Committee Chair	Randy Van Wagnen		2-7-22
Assessment Committee Chair			2.11.22
Vice President for Instruction	Kimberly Hurns		2/10/22
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Reviewed by C&A Committees 1/27/22

Program Information Report

Manufacturing & Automotive

Powertrain Development Technician (APPDT)

Associate in Applied Science Degree

Program Effective Term: Fall 2020

In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.

First Semester		(15 credits)
ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for the Technologies	2
	Restricted Electives select a minimum of 2 credits: ABR 114 or WAF 105	2
Elective	Writing Elective(s)	3
Second Semester		(14 credits)
ASV 256	Electrical and Electronic Systems	4
	Restricted Electives select a minimum of 2 credits: ABR 140* or WAF 103	2
	Restricted Electives select a minimum of 2 credits: ABR 111, ABR 140*, ASV 174, ASV 251*, ASV 258*, ASV 270, MEC 120, or MST 110	2
Elective	Speech/Comp. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Third Semester		(17 credits)
ASV 277	Automotive Powertrain Systems	4
ASV 279	Automotive Dynamometer and Test	4
MST 230	Advanced Motorcycle Fabrication	3
	Restricted Electives select a minimum of 2 credits: ASV 251* or ASV 258*	2
Elective	Math Elective(s)	4
Fourth Semester		(14 credits)
CST 185	Local and Mobile Networking Essentials	4
MST 220	Dynamometer Operations	4
Elective	Arts/Human. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Minimum Credits Required for the Program:		60

Notes:

*Course may only be used to satisfy one Restricted Elective requirement.

**Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page <http://www.wccnet.edu/services/transferresources/mta/> for more information.

**WASHTENAW COMMUNITY COLLEGE
PROGRAM CHANGE OR DISCONTINUATION FORM**

Program Code: Program Name: Effective Term:
 APPDT Powertrain Development Technician Fall 2020
 Division Code: Department:
 ATP Transportation Technologies

Directions:
 1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
 2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
 3. 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 a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

<input type="checkbox"/> Review	<input type="checkbox"/> Program admission requirements
X Remove course(s): WAF109, <u>WAF125</u>	<input type="checkbox"/> Continuing eligibility requirements
MEC101 _____	<input type="checkbox"/> Program outcomes
<input checked="" type="checkbox"/> Add course(s): <u>ABR140, WAF 103¹, MST 230</u>	<input type="checkbox"/> Accreditation information
<input type="checkbox"/> Program title (title was _____)	<input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses)
<input type="checkbox"/> Description	<input type="checkbox"/> Other
<input type="checkbox"/> Type of award	
<input checked="" type="checkbox"/> Advisors <u>Add Niki Lee</u>	
<input type="checkbox"/> Articulation information	

Show all changes on the attached page from the catalog.

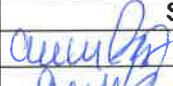

Rationale for proposed changes or discontinuation:
 MEC 101 and WAF 109 are being removed. MEC 101 is being removed from a restricted electives list. WAF109 is being replaced by WAF105 or ABR 114. MST 230 is being added as a required course. This change is being made to insure that all students will gain experience with transportation materials processing. In addition MST 230 adds transportation technology specific fabrication, which has been repeatedly requested by employers.

 The frequency of each course offering, the time(s) of day each semester, and the alignment of content with expressed employer's skill sets were considered.

Financial/staffing/equipment/space implications:
 None

List departments that have been consulted regarding their use of this program.
 Automotive Body Department (Now Transportation Technology), Motorcycle Technology Department (Now Transportation Technology), Industrial Technology Department, Welding and Fabrication Department

Signatures:

Reviewer	Print Name	Signature	Date
Initiator	Allen Day		12/12/2019
Department Chair	Allen Day		12/12/2019

Division Dean/Administrator	Brandon Tucker	<i>TAT</i>	12/17/15
Please submit completed form to the Office of Curriculum and Assessment (SC 257). Once reviewed by the appropriate faculty committees we will secure the signature of the VPI and President.			
Vice President for Instruction	Kimberly Hurns	<i>[Signature]</i>	2/2/2020
President	Rose B. Bellanca		
Do not write in shaded area. Entered in: Banner _____ C&A Database <u>2-14-20</u> Log File <u>2-14-20</u> Board Approval			

*Reviewed by C&A Committees
1/23/20*

First Semester

ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for the Technologies	2
Restricted Electives select 2 credits: ABR 114 or WAF 105		2
WAF 109	Welding Safety and OSHA Regulations	2
Elective(s)	Writing/Composition	3
Total		15

Second Semester

ASV 256	Electrical and Electronic Systems	4
Restricted Electives select a minimum of 2 credits: ABR 140 or WAF 103		2
WAF 105	Introduction to Welding Processes	2
Elective(s)	Writing/Composition or Communication	3
Elective(s)	Natural Sciences	3
Restricted Electives select a minimum of 2 credits: ABR 111, ASV 174, ASV 251, ASV 258, ASV 270, MEC 120, MST 110, ABR 140		2
Restricted Electives select a minimum of 4 credits: ABR 111, ASV 174, ASV 251, ASV 258, ASV 270, MEC 101, MEC 120, MST 110, WAF 125		4
Total		14

Third Semester

MST 230	Advanced Motorcycle Fabrication	3
ABR 114	Applied Auto Body Welding	2
ASV 277	Automotive Powertrain Systems	4
ASV 279	Automotive Dynamometer and Test	4
Elective(s)	Math	4
Elective(s)	Math	3
Restricted Electives select a minimum of 2 credits: ASV 251 or ASV 258		2
Total		17

Fourth Semester

CST 185	Local and Mobile Networking Essentials	4
MST 220	Dynamometer Operations	4
Elective(s)	Arts and Humanities	3
Elective(s)	Social and Behavioral Science	3
Total		14
Total Credits Required		60

Footnotes

*Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page www.wccnet.edu/services/transferresources/mta/ for more information.

Program Information Report

Manufacturing & Automotive

Powertrain Development Technician (APPDT)

Associate in Applied Science Degree

Program Effective Term: Fall 2019

In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.

First Semester		(15 credits)
ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for the Technologies	2
WAF 109	Welding Safety and OSHA Regulations	2
Elective	Writing Elective(s)	3
Second Semester		(16 credits)
ASV 256	Electrical and Electronic Systems	4
WAF 105	Introduction to Welding Processes	2
Elective	Speech/Comp. Elective(s)	3
Elective	Nat. Sci. Elective(s)	3
Elective	Restricted Electives select a minimum of 4 credits: ABR 111, ASV 174, ASV 251, ASV 258, ASV 270, MEC 101, MEC 120, MST 110, WAF 125	4
Third Semester		(15 credits)
ABR 114	Applied Auto Body Welding	2
ASV 277	Automotive Powertrain Systems	4
ASV 279	Automotive Dynamometer and Test	4
Elective	Math Elective(s)	3
Elective	Restricted Electives select a minimum of 2 credits: ASV 251 or ASV 258	2
Fourth Semester		(14 credits)
CST 185	Local and Mobile Networking Essentials	4
MST 220	Dynamometer Operations	4
Elective	Arts/Human. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Minimum Credits Required for the Program:		60

Notes:

*Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page <http://www.wccnet.edu/services/transferresources/mta/> for more information.

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: APPDT Program Name: Powertrain Development Technician Effective Term: Fall 2019
 Division Code: ATP Department: Automotive Service Department

Directions:

1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. 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 a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

Review

X Remove course(s): ASV 135, WAF 200, WAF 106

X Add course(s): WAF 109, CST 185, ABR 114

As restricted electives: ASV 174, ASV 251, ASV 258, ASV 270,

ABR 111, MST 110, MEC 101, MTT 102, WAF 125

Program title (title was .)

Description

Type of award

Advisors

Articulation information

Program admission requirements

Continuing eligibility requirements

Program outcomes

Accreditation information

Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses)

Other

Show all changes on the attached page from the catalog.

Rationale for proposed changes or discontinuation:

ASV 135, WAF 200, WAF 106 are being removed. Those courses are being replaced with WAF 109, CST 185, and ABR 114.

Program goals and employer alignment were better improved with the addition of the new course and the updated restricted electives. WAF 109, a new course has safety content from ASV135, and is a prerequisite for other restricted elective WAF courses. CST 185 was added as a required course in collaboration with the Computer Instruction Department to add new content to this program to align with the technological advances in the target career path.

The frequency of each course offering, the time(s) of day each semester, and the alignment of content with expressed employer's skill sets were considered. Prerequisites were also reviewed, and the courses were chosen to limit registration restrictions that always require overrides. Department Chair of each department was consulted to consider prerequisite updates to avoid automatic unneeded overrides for registration.

Financial/staffing/equipment/space implications:

None

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

Automotive Body Department, Motorcycle Technology Department, Industrial Technology Department, Computer Instruction Department, Welding and Fabrication Department

Signatures:

LISA VEASDY

Lisa Veasdy

4/11/19

Reviewer	Print Name	Signature	Date
Initiator	Austin Day	<i>[Signature]</i>	11/19/2018
Department Chair	Brandon Tucker	Justin Messinger	11/17/2018
Division Dean/Administrator	Brandon Tucker	Brandon Tucker	11/21/18
Vice President for Instruction	Kimberly Hyvns	Kimberly Hyvns	11/29/18
President	Rose D. Blank	Rose D. Blank	1/3/19
Do not write in shaded area. Entered in: Banner C&A Database 4/12/19 Log File 4/12/19 Board Approval			

Please submit completed form to the Office of Curriculum and Assessment (SC 257).

[Signature]

APPDT

WCC General Education Requirements
Effective Fall 2018

Associate degree programs were updated to meet the revised WCC general education requirements below.

Course Distribution Requirements

Associate degree students must complete courses from each of six General Education content areas. The requirements vary, depending on which degree is being earned. The number of general education credit hours required for each degree is as follows.

	AA	AS	AAS
Writing/Composition	3-4 credits	3-4 credits	3-4 credits
2nd Writing/Composition or Communication	3-4 credits	3 credits	3 credits
Mathematics	3-4 credits	3-4 credits	3-4 credits
Natural Sciences ¹	7-8 credits	7-8 credits	3-4 credits
Social & Behavioral Science ²	6 credits	6 credits	3 credits
Arts and Humanities ³	6 credits	6 credits	3 credits
General Education Electives to reach 30 credits	0-2 credits	0-2 credits	N/A
Minimum	30 credits	30 credits	18 credits

¹ Two courses in Natural Science including one with laboratory experience (from two disciplines)

² From two disciplines

³ From two disciplines

Program Information Report

Powertrain Development Technician (APPDT)

Associate in Applied Science Degree

Program Effective Term: Fall 2018

In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.

First Semester		(15 credits)
ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for the Technologies	2
WAF 105	Introduction to Welding Processes	2
Elective	Writing Elective(s)	3
Second Semester		(14 credits)
ASV 256	Electrical and Electronic Systems	4
MEC 120	3D-Printing: Machine, Process and Innovation	4
WAF 106	Welding Print Reading	3
Elective	Nat. Sci. Elective(s)	3
Third Semester		(15 credits)
ASV 277	Automotive Powertrain Systems	4
ASV 279	Automotive Dynamometer and Test	4
WAF 200	Layout Theory Welding	3
Elective	Math Elective(s)	3
	Elective(s) to reach a minimum 60 credits	1
Fourth Semester		(16 credits)
ASV 135	Facility Operations	3
MST 220	Dynamometer Operations	4
Elective	Arts/Human. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Elective	Speech/Comp. Elective(s)	3

Minimum Credits Required for the Program: 60

Notes:

*Students may elect to take optional courses in Semester 5 to meet MTA. Please refer to the WCC MTA Transfer Agreement web page <http://www.wccnet.edu/services/transferresources/mta/> for more information.

WASHTENAW COMMUNITY COLLEGE
GENERAL EDUCATION REVISION AAS PROGRAM CHANGE FORM 2018-2019

Program Code: APPDT	Program Name: Powertrain Dev/ Tech
Division Code: ATP	Department: ASV

This form is to be used only for General Education Revision Program Changes for Associate in Applied Science (AAS) programs. Any other program changes should be submitted separately using a standard Program Change Form.

Directions:

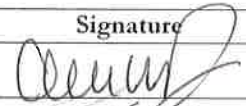



1. Review each general education area under **Requested Changes** below and respond as needed.
2. Attach the semester program layout showing the current program listing from the WCC catalog.
 - a. Indicate any changes to be made on the semester layout.
 - b. Draw a line through any courses that should be removed on the semester layout.
 - c. Write in any courses that need to be added on the semester layout.
3. Submit this form and semester program layout to the Office of Curriculum and Assessment (SC 257).

Current General Education Requirements AAS	Revised General Education Requirements 2018-2019 AAS
Writing 3-4 credits	English Composition 3 - 4 credits
Speech 3 credits	2 nd Course in English Composition or one course in Communication 3 - 4 credits
Mathematics 3 - 4 credits	Mathematics 3 - 4 credits
Natural Sciences 3 - 4 credits	Natural Sciences 3 - 5 credits
Social & Behavioral Sciences 3 credits	Social & Behavioral Sciences 3 credits
Arts & Humanities 3 credits	Arts & Humanities from 3 credits
Critical Thinking 0 credits	Total 18 credits
Computer & Information Literacy 3 credits	
Total 21-24 credits	

Please review each General Education Area in the chart below, and record the needed changes in the chart and on the attached semester program layout.

REQUESTED CHANGES	
	General Education Area
	English Composition – The requirement for one writing/English composition course remains the same. No changes will be made unless specifically requested below. (Use Writing Elective or ENG 111)
Optional Change:	None
	2nd Course in English Composition or one course in Communication WCC previously required both a second composition/writing course and a communication course. Your options are: <ol style="list-style-type: none"> 1. Allow students to select any course that meets composition/writing or communication (recommended). 2. Require students to take a specific composition course (identify course below and on semester layout). 3. Require students to take a specific communication course (identify course below and on semester layout).
Requested Change:	

	Mathematics – The requirement for one mathematics course remains the same. However, the courses that meet the MTA requirement have changed slightly. See the course listing for details
Optional Change:	NC
	Natural Sciences - The requirement for one natural science course remains the same. No changes will be made unless specifically requested below.
Optional Change:	NC
	Social & Behavioral Sciences – The requirement for one social and behavioral science course remains the same. No changes will be made unless specifically requested below.
Optional Change:	NC
	Arts & Humanities – The requirement for one arts and humanities course remains the same. No changes will be made unless specifically requested below. (Note: A department can designate a COM course as a requirement here. The same course cannot be counted in two areas.)
Optional Change:	NC
	Computer and Information Literacy The requirement for computer and information literacy has been removed. Your options are: <ol style="list-style-type: none"> 1. Continue to require a specific computer course. If a specific course is required in your program, we will leave it there. If you previously used "Computer and Information Literacy Course," you will need to specify either a specific course or a list of courses from which to choose. 2. Remove the computer and information literacy course if the program will still meet the minimum of 60 credit hours. 3. Remove the computer and information literacy course and replace the course with elective or other credits as needed to meet the minimum of 60 credit hours.
Required Change:	

Reviewer	Print Name	Signature	Date
Initiator	Alexander Day		12/12/2017
Department Chair	Justin Moranister		12/12/17
Division Dean/Administrator	Brandon Tweker		12/21/17
Vice President for Instruction			1/9/18

Office use only

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Program Information Report

APPDT

School of Automotive and Motorcycle Technology

If you are looking for the best technical training in the automotive or motorcycle field, WCC's School of Automotive and Motorcycle Technology is the place for you. Whether your focus is finding employment as a technician, learning about performance equipment, or creating a custom look, our introductory and advanced certificate programs, as well as associate degrees, will enhance your personal and professional qualifications. These programs offer the perfect blend of classroom and hands-on education not available in many other educational settings.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, advanced certificate (if one exists), and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, advanced certificate and General Education requirements.

Automotive Services

The automotive certificate prepares the student for work as an automotive services technician, diagnosing and repairing malfunctions in automobile systems.

Program Information Report

Powertrain Development Technician (APPDT)

Associate in Applied Science Degree

Program Effective Term: Fall 2015

In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.

ASV 131	Automotive Electrical	4
ASV 132	Automotive Engines	4
MTT 102	Machining for Auto Applications	2
WAF 105	Introduction to Welding Processes	2
Elective	Writing Elective(s)	3-4

ASV 256	Electrical and Electronic Systems	4
MEC 101	3D Modeling and Blueprint Reading	2
WAF 106	Blueprint Reading for Welders	3
Elective	Computer Lit. Elective(s)	3
Elective	Nat. Sci. Elective(s)	4

ASV 277	Automotive Powertrain Systems	4
ASV 279	Automotive Dynamometer and Test	4
WAF 200	Layout Theory Welding	3
Elective	Math Elective(s)	4

ASV 135	Facility Operations	3
MST 220	Dynamometer Operations	4
Elective	Arts/Human. Elective(s)	3
Elective	Soc. Sci. Elective(s)	3
Elective	Speech Elective(s)	3

Minimum Credits Required for the Program: 62

Notes:

- *Students may elect to take the following optional courses in Semester 5 to meet MTA:
- Arts and Humanities Elective (3 credits)
- Natural Science Elective (3-4 credits)
- Social Science Elective (3 credits)

PROGRAM PROPOSAL FORM

- 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.

<p>Program Name:</p> <p>Division and Department:</p> <p>Type of Award:</p> <p>Effective Term/Year:</p> <p>Initiator:</p>	<p><u>Powertrain Development Technician (APPDT)</u></p> <p><u>ATP/ AUTD</u></p> <p><input type="checkbox"/> AA <input type="checkbox"/> AS <input checked="" type="checkbox"/> AAS <input type="checkbox"/> Cert. <input type="checkbox"/> Adv. Cert. <input type="checkbox"/> Post-Assoc. Cert. <input type="checkbox"/> Cert. of Comp.</p> <p><u>Fall 2015</u></p> <p><u>Allen Day</u></p>	
<p>Program Features Program's purpose and its goals. Criteria for entry into the program, along with projected enrollment figures. Connection to other WCC programs, as well as accrediting agencies or professional organizations. Special features of the program.</p>	<p>This program is being developed in coordination with the Skilled Trades Equipment grant. In this program, students will develop the knowledge and skills to perform automotive powertrain testing in a unique testing environment. Jobs in this area require experience with an automotive dynamometer.</p> <p>This program utilizes some existing courses from the automotive services (APASRV) associate degree program to provide the background for testing and development of powertrains. While the APASRV program goes on to review all components of a car, this program focuses on engines, drivetrains and electrical systems.</p> <p>This program would require the purchase of an automotive dynamometer.</p>	
<p>Need Need for the program with evidence to support the stated need.</p>	<p>This program is developed in coordination with the Skilled Trades Equipment grant and as a result of round table discussions with industry leaders. Three local employers, GM Powertrain, Detroit Diesel and Thompson Automotive, who participated in the round table discussion, identified immediate openings in the field of powertrain development technician. Students would work in an engineering powertrain testing lab or an engineering powertrain endurance testing lab setting up tests, running them using a dynamometer and assisting with interpretation of results.</p>	
<p>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.</p>	<p><u>Outcomes</u></p> <ol style="list-style-type: none"> Assemble dyno test cell to run engine and powertrain components. Retrieve and analyze complex test data. Interpret test data and recommend corrective action. 	<p><u>Assessment method</u></p> <ol style="list-style-type: none"> Departmental Exam Departmental Exam Departmental Exam

MO Done 4/25/15 mo
logged 1/14/15 sj
Office of Curriculum & Assessment

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.	Semester 1		15 - 16 Credits
	Writing Elective		3 - 4 cr
	MTT 102	Machining for Auto Applications	2 cr
	ASV 131	Automotive Electrical	4 cr
	ASV 132	Automotive Engines	4 cr
	WAF 105	Introduction to Welding Processes	2 cr
	Semester 2		15 Credits 16 cr
	Computer Literacy		3 cr
	MEC 101	Modeling and Blueprint Reading	2 cr
	WAF 106	Blueprint Reading for Welders	2 cr 3 cr
	ASV 256	Electrical and Electronic Systems	4 cr
	Natural Science Elective		4 cr
	Semester 3		15 Credits
	Math Elective		4 cr
	WAF 200	Layout/Fabrication for AMC	3 cr
	ASV 277	Automotive Powertrain Systems	4 cr
	ASV 279	Auto Dynamometer and Testing	4 cr
	Semester 4		16 credits
	Social Science Elective		3 cr
	Speech Elective		3 cr
	Humanities Elective		3 cr
	ASV 135	Facility Operations	3 cr
	MST 220	Dynamometer Operations (override)	4 cr
	Total Program Credits		61 62
	Semester 5 – Optional Courses to meet MTA		9 – 10
	Social Science Elective		3 cr
	Humanities Elective		3 cr
Physical Science Elective		3 – 4 cr	
Total Program Credits		70 - 72	
Budget Specify program costs in the following areas, per academic year:	START-UP COSTS		ONGOING COSTS
	Faculty	\$.	Future FT Instructor
	Training/Travel	.	.
	Materials/Resources	.	\$600.00
	Facilities/Equipment	\$374,749.00*	\$2500.00
	Classified Faculty	.	.5 FTE
	TOTALS:	\$374,749.00*	\$ TBD
Potential Skilled Trades Equipment grant funding* Funding overlaps slightly with Automotive Test Technician program proposal.			

Program Description for Catalog and Web site	In this program, students will develop the knowledge and skills to perform in-car powertrain testing in unique testing environments. Jobs in this area require knowledge of automotive engine and electrical systems and experience with an automotive dynamometer. Students will learn about dynamometer setup and testing including the operation of complex analytical test equipment and test software.
Program Information	Accreditation/Licensure – ASE Tests Advisors - TBD Advisory Committee – In Development Admission requirements - Articulation agreements - TBD Continuing eligibility requirements -

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
Assemble dyno test cell to run engine and powertrain components.	Departmental Exam	Fall 2018	ASV 279	All students
Retrieve and analyze complex test data	Departmental Exam	Fall 2018	ASV 279	All students
Interpret test data and recommend corrective action.	Departmental Exam	Fall 2018	ASV 279	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.

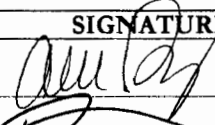


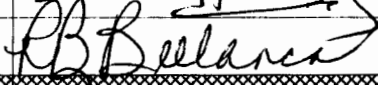
Departmentally-developed rubric and answer key

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

75% of the students will score 70% or higher

3. Indicate who will score and analyze the data.

Departmental faculty will analyze the data.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Allen Day		1/14/2015
Dean	Brandon Tucker		1/14/15
Vice President for Instruction <input type="checkbox"/> Approved for Development <input type="checkbox"/> Final Approval	William Abernethy		2/23/15
President	Rose Bellanca		2/23/15
Board Approval			3/24/15