POWERTRAIN DEVELOPMENT TECHNICIAN (AAS)

Catalog Effective Term: Fall 2024

Program Code: APPDT

Credential: Associate in Applied Science

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.

Minimum Credits Required for the Program: 61

Full-Time students

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/learn/transfer-wcc-credits/mta.php for more information.

Course	Title	Credits
First Semester		
ABR 114	Applied Auto Body Welding	2
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
	s) (https://coursecatalog.wccnet.edu/ eral-education/#writing)	3
	Credits	13
Second Semeste	er	
ABR 140	Aluminum Welding for Automotive Applications	4
ASV 132	Automotive Engines	4
ASV 256	Electrical and Electronic Systems	4
Math Elective(s) general-education	(https://coursecatalog.wccnet.edu/academics/on/#math)	3
	Credits	15
Third Semester		
ASV 277	Automotive Powertrain Systems	4
MST 220	Dynamometer Operations	4
	e(s) (https://coursecatalog.wccnet.edu/ eral-education/#socbehavsci)	3
	Elective(s) (https://coursecatalog.wccnet.edu/ eral-education/#writing)	3
APPDT Restricte	ed Elective(s) (p. 2)	2
	Credits	16
Fourth Semeste	r	
ASV 279	Automotive Dynamometer and Test	4
MST 230	Advanced Motorcycle Fabrication	3
	ective(s) (https://coursecatalog.wccnet.edu/ eral-education/#arthuma)	3
	e(s) (https://coursecatalog.wccnet.edu/ eral-education/#naturalsci)	3

APPDT Restricted Elective(s) (p. 2)	
Credits	17
Total Credits	61

Part-Time students

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

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Course	Title	Credits
First Semester		
ASV 130	Automotive Maintenance	4
ASV 131	Automotive Electrical	4
	Credits	8
Second Semester		
ASV 132	Automotive Engines	4
ASV 256	Electrical and Electronic Systems	4
	Credits	8
Third Semester		
Math Elective(s) (http	os://coursecatalog.wccnet.edu/academics/	3
general-education/#r	math)	
	ttps://coursecatalog.wccnet.edu/	3
academics/general-e		
	Credits	6
Fourth Semester		
ABR 114	Applied Auto Body Welding	2
ASV 277	Automotive Powertrain Systems	4
	Credits	6
Fifth Semester		
ABR 140	Aluminum Welding for Automotive Applications	4
ASV 279	Automotive Dynamometer and Test	4
	Credits	8
Sixth Semester		
Nat. Sci. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#naturalsci)		
_	ve(s) (https://coursecatalog.wccnet.edu/	3
academics/general-e		
	Credits	6
Seventh Semester		
MST 220	Dynamometer Operations	4
APPDT Restricted Ele	ective(s) (p. 2)	2
	Credits	6
Eighth Semester		
MST 230	Advanced Motorcycle Fabrication	3
Soc. Sci. Elective(s) (https://coursecatalog.wccnet.edu/	3
academics/general-e	ducation/#socbehavsci)	
	Credits	6
Ninth Semester		
Arts/Human. Elective	e(s) (https://coursecatalog.wccnet.edu/	3
academics/general-education/#arthuma)		

APPDT Restricted Elective(s) (p. 2)	
Credits	7
Total Credits	61

APPDT Restricted Electives

Code	Title	Credits
ABR 111	Introduction to Auto Body Repair	4
ASV 135	Facility Operations	3
ASV 174	ASV Co-op Education I	1-3
ASV 257	Heating and Air Conditioning Systems	2
ASV 266	Advanced Transmissions	2
ASV 274	ASV Co-op Education II	1-3
CSS 200	Introduction to Network Security - Security +	4
CSS 205	Essentials of Network Penetration Testing	4
CST 185	Local and Mobile Networking Essentials	4
MST 110	Motorcycle Service Technology I	4