CENTRAL programs

Associate of Applied Science Degree

Certificate or Credential

Automotive Technology

Learn basic and advanced skills in the automotive field. Many of today's automotive jobs require skills in technology, computer and problem-solving, plus good analytical skills. Employers are looking for highly skilled technicians and are offering better wages and benefits.

CWC's automotive technology program prepares you to enter the job market with the skills needed to get the job done.

CAREER OPTIONS:

Bright career outlooks for automotive engineers and speciality technicians, along with master mechanics, service technicians and mechanics. Green jobs are also available in those areas, plus transportation managers, machinists, industrial machinery technicians, and transportation managers.

Check out occupations and wages online:
http://onetcenter.org

CENTRAL Wyoming COLLEGE

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Riverton, Wyoming 82501
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email: admit@cwc.edu

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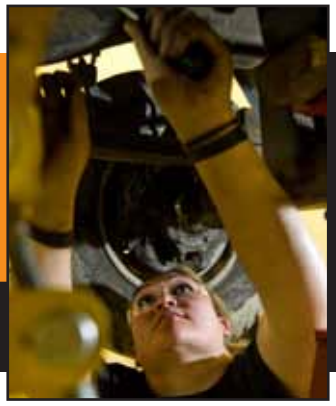
www.cwc.edu

The average length of each program:
credential - 29 credit hours
certificate - 38 credit hours
AAS degree - 64 credit hours

www.cwc.edu



In Wyoming, the median wage for automobile mechanics is approximately $28 per hour, compared to the national mean of $15.07. Wyoming has about 13,000 automobile mechanics.

The Associate of Applied Science degree in Automotive Technology is designed for students who have minimal experience and knowledge of automotive technology.

The general education requirements are designed to encourage students to develop critical and creative thinking, computation, communication skills, and technological literacy. The program requirements provide students with the prerequisite coursework that is required for students to successfully complete one or more of the following options in the Automotive Technology Associate of Applied Science degree: 1) Automotive Technology, 2) Power Sports, and 3) Parts Specialist.

Students must complete the general education, program requirements, and choose at least one of the Automotive Technology program options to complete the two-year degree. A student who chooses to complete two or more of the Automotive Technology program options will earn an Automotive Technology AAS degree in each program option, and each completed program option will be listed separately on the student's transcript.

Automotive Technology Option: Automotive Technology is a field of study in which students are taught diagnostic techniques, service, and repair of automobiles and pickup trucks. Classroom work involves knowledge of general principles, as well as specific product information. Laboratory work emphasizes a hands-on orientation with extensive training on vehicles. Courses are designed to address the ever changing technical developments in the automotive industry which includes computerized electronic control systems, development of the student's diagnostic capabilities, and proficiency with recommended service procedures.

Parts Specialist Option: The Parts Specialist option provides the students with a unique opportunity to acquire a working knowledge of the replacement parts industry. The curriculum is designed to incorporate basic business procedures related to the replacement parts industry.

Power Sports Option: The Power Sports option provides the students with entry level knowledge of the motorcycle, ATV, and snowmobile repair business. Proper repair procedures, theory of operation, customer service, and suggested business practices are emphasized in the curriculum.

Associate of Applied Science Degree

General Education Requirements			**Credits**
Writing Level I (WR1)			3
American & Wyoming Government (POLS 1000)			3
Student must complete 9 credits of general education courses distributed over 3 of the following different general education areas, one of which is either WR2 or ORAL			
ARTS/DIV/HUM/IT/ORAL/SOC/WR2			9
MATH/APPM/LSCI			(In program)
PEAC/UNST/WELL			1
Program Requirements			
AUTO	1600	Fuel Systems I	3
AUTO	1765	Automotive Electrical Systems	4
AUTO	1770	Automotive Electronics	4
AUTO	2810	Diagnosis & Tune-up Procedures	4
MATH	1500	Applied Math (APPM)	3
PFDV	1500	Managing Career Development	3
PRSP	1500	Basic Auto Terms and Concepts	3

Program Options (Choose a minimum of one option.)

Automotive Technology General Option			
AUTO	1510	Engine Systems Fundamentals	3
AUTO	1690	Power Train Fundamentals	4
AUTO	1730	Automatic Transmissions	4
AUTO	1740	Brake Systems	4
AUTO	1755	Automotive Suspension and Alignment	4
AUTO	1760	Heating & Air Conditioning	3
AUTO	2630	Emission Systems	3
		Total	65

Parts Specialist Option			
ACCT	1050	Practical Accounting I	3
AUTO	1510	Engine Systems Fundamentals	3
MGT	1200	Human Resource Management	3
MGT	2000	Introduction to Business	3
MGT	2130	Human Relations (ORAL) OR	
CO/M	2130	Human Relations (ORAL)	3
PRSP	1510	Engine Controls & Sensors	3
PRSP	1520	Heavy Duty Parts	3
PRSP	2500	Parts Specialist I	3
PRSP	2510	Parts Specialist II	4
		Total	65

Power Sports Option			
PWRS	1500	Power Sports Maintenance and Tune-up	3
PWRS	1510	2-Cycle Fundamentals	3
PWRS	1520	4-Cycle Engine Fundamentals	3
Option Electives:			
Student must complete approved courses from the following departments: AUTO or PRSP			9
General Electives			6
		Total	64

Certificate

The certificate program in Automotive Technology is designed for students who have had no previous coursework or work experience in the automotive field.

The general education requirements are designed to encourage students to develop computation and communication skills. The program requirements provide students with the prerequisite coursework that is required to successfully complete one or more of the following options in the Automotive Technology certificate degree: 1) Automotive Technology, 2) Power Sports, and 3) Parts Specialist.

Students must complete the general education, program requirements, and choose at least one of the Automotive Technology certificate options to complete the certificate. A student who chooses to complete two or more of the Automotive Technology certificate options will earn an Automotive Technology certificate in each program option, and each completed program option will be listed separately on the student's transcript.

Automotive Technology Option: Automotive Technology is a field of study in which students are taught diagnostic techniques, service, and repair of automobiles and pick-ups. Classroom work involves knowledge of general principles, as well as specific product information. Laboratory work emphasizes a hands-on orientation with extensive training on vehicles. Courses are designed to address the ever changing technical developments in the automotive industry which includes computerized electronic control systems, development of the student's diagnostic capabilities, and proficiency with recommended service procedures.

Parts Specialist Option: The Parts Specialist option provides the students with a unique opportunity to acquire a working knowledge of the replacement parts industry. The curriculum is designed to incorporate basic business procedures related to the replacement parts industry.

Power Sports Option: The Power Sports option provides the students with entry level knowledge of the motorcycle, ATV, and snowmobile repair business. Proper repair procedures, theory of operation, customer service, and suggested business practices are emphasized in the curriculum.

Certificate

General Education Requirements			**Credits**
Writing Level I (WR1)			3
MATH/APPM			(In program)
UNST	1		
Program Requirements			
AUTO	1600	Fuel Systems I	3
AUTO	1765	Automotive Electrical Systems	4
AUTO	1770	Automotive Electronics	4
MATH	1500	Applied Math (APPM)	3
PFDV	1500	Managing Career Development	3
PRSP	1500	Basic Auto Terms and Concepts	3

Program Option Requirements
(Choose a minimum of one option below.)

Automotive Technology General Option

AUTO	1510	Engine Systems Fundamentals	3
AUTO	1740	Brake Systems	4
AUTO	1755	Automotive Suspension/Alignment	4
AUTO	1760	Heating & Air Conditioning	3
		Total	38

Parts Specialist Option

ACCT	1050	Practical Accounting I	3
AUTO	1510	Engine Systems Fundamentals	3
MGT	2000	Introduction to Business	3
PRSP	1510	Engine Controls & Sensors	3
PRSP	1520	Heavy Duty Parts	3
		Total	39

Power Sports Option

PWRS	1500	Power Sports Maintenance and Tune-up	3
PWRS	1510	2-Cycle Fundamentals	3
PWRS	1520	4-Cycle Engine Fundamentals	3
		Total	33

Auto Technology – Credential

To receive a Credential, the student should take the required program requirement courses and 18 credits of additional AUTO courses.

Program Requirements			Credits
AUTO	1765	Automotive Electrical Systems	4
AUTO	1770	Automotive Electronics	4
PRSP	1500	Basic Auto Terms and Concepts	3
AUTO		Courses*	18
		Total	29

* AUTO 2800-Problems in Automotive Technology does not apply toward the Credential.

Parts Specialist – Credential

To receive a Credential, the student should take the required program requirement courses.

Program Requirements			**Credits**
AUTO	1510	Engine Systems Fundamentals	3
PRSP	1500	Basic Auto Terms and Concepts	3
PRSP	1510	Engine Controls & Sensors	3
PRSP	1520	Heavy Duty Parts	3
PRSP	2500	Parts Specialist I	3
PRSP	2510	Parts Specialist II	4
		Total	19

Power Sports – Credential

The Power Sports credential provides the students with entry level knowledge of the motorcycle, ATV, and snowmobile repair business. Proper repair procedures, theory of operation, customer service, and suggested business practices are emphasized in this curriculum. To receive a Credential, the student should take the required program requirement courses.

Program Requirements			Credits
AUTO	1600	Fuel Systems I	3
AUTO	1765	Automotive Electrical Systems	4
AUTO	1770	Automotive Electronics	4
PRSP	1500	Basic Auto Terms and Concepts	3
PWRS	1500	Power Sports Maintenance and Tune-up	3
PWRS	1510	2-Cycle Fundamentals (SP)	3
PWRS	1520	4-Cycle Engine Fundamentals	3
		Total	23

Auto Parts Specialist

The Parts Specialist group of programs provides the student with a unique opportunity to acquire a working knowledge of the re-placement parts industry. The curriculum is designed to incorporate various business procedures and sales techniques related to the replacement parts industry. In addition, the program has sufficient flexibility in that students are able to choose between an Associate of Applied Science program in either management or outside sales or a certificate program in over-the-counter sales. For the AAS programs, students may select from two choices: Auto Parts Management or Outside Sales Parts. The certificate program is designed for students interested in Counter Parts Sales.

Auto Parts Management

This program develops skills important for success in supervising employees and in operating a small business. Students are prepared in counter sales, auto parts nomenclature, heavy duty parts, engine controls and sensors, inventory control and small business practices. Students selecting this option must take the following courses in addition to the general education courses listed.

Associate of Applied Science Degree

General Education Requirements			Credits
Writing Level I (WR1)			3
American & Wyoming Government (POLS 1000)			3
	ARTS/DIV/HUM/IT/ORAL		3
	MATH/APPM/LSCI		3
	PEAC/UNST/WELL		1
	SOC		(In program)
	WR2		(In program)
Program Requirements			
ACCT	1010	Accounting I OR	
ACCT	1050	Practical Accounting I	3-4
BADM	1020	Business Communications (WR2)	3
BADM	2100	Small Business Practices	3
CPED	1000	Cooperative Work Experience I:	3
ECON	1020	Microeconomics (SOC)	3
MGT	1040	Business Law I	3
MGT	1200	Human Resources Management	3
MGT	2000	Introduction to Business	3
MGT	2100	Introduction to Management	3
MKT	2100	Marketing	3
PRSP	1500	Basic Auto Terms & Concepts	3
PRSP	1510	Engine Controls & Sensors	3
PRSP	1520	Heavy Duty Parts	3
PRSP	2500	Parts Specialist I	3
PRSP	2510	Parts Specialist II	4
General Electives			5
		Total	64

Outside Sales Parts

This program develops skills important for the success of outside sales. The program emphasis is on selling techniques including both counter and outside sales techniques.

Associate of Applied Science Degree

General Education Requirements			Credits
Writing Level I (WR1)			3
American & Wyoming Government (POLS 1000)			3
	ARTS/DIV/HUM/IT/ORAL		3
	MATH/APPM/LSCI		(In program)
	WR2		(In program)
	PEAC/UNST/WELL		1
	SOC		(In program)
Program Requirements			
ACCT	1010	Principles of Accounting I OR	
ACCT	1050	Practical Accounting I	3-4
BADM	1005	Business Math I (APPM)	3
BADM	1020	Business Communications (WR2)	3
BADM	2100	Small Business Practices	3
CPED	1000	Cooperative Work Experience I:	3
ECON	1020	Microeconomics (SOC)	3
MGT	1040	Business Law I	3
MGT	2000	Introduction to Business	3
MKT	2100	Marketing	3
PRSP	1500	Basic Auto Terms and Concepts	3
PRSP	1510	Engine Controls & Sensors	3
PRSP	1520	Heavy Duty Parts	3
PRSP	2500	Parts Specialist I	3
PRSP	2510	Parts Specialist II	4
General Electives			10-11
		Total	64

Counter Parts Sales

This program develops skills important for the success of over-the-counter sales. The program emphasis is on sales techniques and knowledge of the parts industry.

Certificate

General Education Requirements			Credits
Writing Level I (WR1)			3
	MATH/APPM		(In program)
	PEAC/UNST/WELL		1
Program Requirements			
BADM	1005	Business Math I (APPM)	3
CO/M	2130	Human Relations (ORAL) OR	
MGT	2130	Human Relations (ORAL)	3
MGT	2000	Introduction to Business	3
PFDV	1500	Managing Career Development	3
PRSP	1500	Basic Auto Terms and Concepts	3
PRSP	1510	Engine Controls & Sensors	3
PRSP	1520	Heavy Duty Parts	3
PRSP	2500	Parts Specialist I	3
PRSP	2510	Parts Specialist II	4
		Total	32

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website at http://www.cwc.edu/gainful-employment