



2016-2017 PETITION/PROGRAM SHEET
Degree: Associate of Applied Science
Major: Transportation Services
Emphasis: Advanced Automotive Service Technician

About This Emphasis . . .

In the Associate of Applied Science degree with a major in Transportation Services, and emphasis in Advanced Automotive Service Technician, students learn the fundamentals of electronics, starters, ignition, and charging systems, air conditioning, cooling and heating systems, safety, technical math, use of technical manuals, basic management skills, written and oral communication skills, and leadership. Advanced coursework includes an in-depth study of internal combustion engine disassembly, repair, reassembly, diagnosis and troubleshooting, suspension systems, and alignment and wheel balance. The Advanced Automotive Service Technician emphasis prepares students for careers as automotive technicians, parts and service distributors, industrial sales representatives, service managers, and business owners in the transportation services industry.

For more information on what you can do with this major, go to <http://www.coloradomesa.edu/wccc/programs.html>

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a repair technician to properly repair vehicles. (Communication Fluency)
2. Apply Mathematical concepts and practices that are required to properly perform vehicle repair competencies to an (ASE) Automotive Service Excellence standard. (Quantitative Fluency)
3. Evaluate evidence discovered during the diagnosis and troubleshooting of vehicles and apply those findings to strategies to properly repair the vehicle. (Critical Thinking)
4. Describe the scope and application of principle features of the field of study, including core practices in the vehicle repair industry. (Specialized Knowledge)
5. Demonstrate mastery of the current terminology in the Transportation Service industry and generate substantially error-free products or processes that define the duties of a repair technician. (Specialized Knowledge)
6. Perform vehicle repair practices that meet or exceed industry standards as defined by (ASE) Automotive Service Excellence. (Applied Learning)
7. Demonstrate personal and professional ethical behavior as applied to the industry. (Applied Learning)
8. Define the legal and ethical standards required of the vehicle repair industry. (Specialized Knowledge)

NAME: _____ **STUDENT ID #:** _____

LOCAL ADDRESS AND PHONE NUMBER: _____

_____ () _____

I, (Signature) _____, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I have read and understand the policies listed on the last page of this program sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

Signature of Advisor

Date

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Signature of Department Head

Date

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Signature of Registrar

Date

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DEGREE REQUIREMENTS:

- 70 semester hours total (A minimum of 16 taken at CMU in no fewer than two semesters).
- 2.00 cumulative GPA or higher in all CMU coursework and a “C” or better must be achieved in coursework toward major content area.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student’s responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student’s faculty advisor and Department Head.
- When filling out the program sheet a course can be used only once.
- See the “Requirements for Undergraduate Degrees and Certificates” in the catalog for additional graduation information.

ESSENTIAL LEARNING REQUIREMENTS (Minimum 15 semester hours) See the current catalog for a list of courses that fulfill the requirements below. If a course is on the Essential Learning list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the Essential Learning requirement. The Essential Learning capstone course and co-requisite Essential Speech course (required for bachelor’s degrees) cannot be used as options for the below requirements.

Course No	Title	Sem.hrs	Grade	Term/Trns
Communication (6 semester hours)				
ENGL 111	English Composition	3	_____	_____
ENGL 112	English Composition	3	_____	_____
-OR-				
ENGL 111	English Composition <u>and</u>	3	_____	_____
SPCH 101	Interpersonal Communication <u>or</u>	3	_____	_____
SPCH 102	Speechmaking	3	_____	_____
Mathematics (Minimum 3 semester hours)				
MATH 107	or higher	3	_____	_____
Social Sciences, Natural Science, Fine Arts, or Humanities (Minimum 6 semester hours)				
_____	_____	3	_____	_____
_____	_____	3	_____	_____

*Please see your advisor for requirements specific to this program.

Course No	Title	Sem.hrs	Grade	Term/Trns
WELLNESS REQUIREMENT (2 semester hours)				
KINE 100	Health and Wellness	1	_____	_____
KINA 1	_____	1	_____	_____

ASSOCIATE OF APPLIED SCIENCE: TRANSPORTATION SERVICES – Advanced Automotive Service Technician COURSE REQUIREMENTS
(53 semester hours)

Required Courses: (45 semester hours)

TSTC 100	Intro To Transportation Service	2	_____	_____
TSTC 101	Vehicle Service and Inspection	3	_____	_____
TSTC 130	Electrical I	2	_____	_____
TSTC 160	Electrical II	2	_____	_____
TSTC 170	Chassis Fundamentals	2	_____	_____
TSTC 171	Brakes I	2	_____	_____
TSTG 120	Industrial Safety Practices	2	_____	_____
TSTG 135	Starting and Charging Systems	2	_____	_____
TSTG 175	Brakes II	2	_____	_____
TSTG 195	Climate Control	4	_____	_____
TSTG 220	Workplace Skills	3	_____	_____
TSTG 275	ABS/Diagnostics	2	_____	_____
TSTA 245	Manual Drive Trains			
OR TSTA 247	Automatic Drive Trains	4	_____	_____
TSTA 265	Engine Control Service	3	_____	_____
TSTA 267	Body Controls	3	_____	_____
TSTA 275	Alignment & Suspension Serv.	3	_____	_____
TSTA 287	Eng Performance & Emissions	3	_____	_____
CADT 101	Intro to Computers	1	_____	_____

Restricted Electives
Choose a minimum of 8 semester hours from list below.

Restricted Electives:

TSTD 265	Diesel Engine Controls (3)			
TSTA 289	Alternative Fueled Vehicles (2)			
TSTG 240	Job Shop (4)			
TSTA 286	Hybrid Fueled Vehicles (2)			
TSTG 270	Practical Applications (4)			
TSTG 115	Engine Reconditioning (4)			
TSTD 215	Diesel Eng Recon (5)			

Additional expenses – Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately \$2500.00. This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields. Please see faculty advisor for approved electives.

SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH A MAJOR IN TRANSPORTATION SERVICES, EMPHASIS IN ADVANCED AUTOMOTIVE SERVICE TECHNICIAN

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

First Semester	Hours	Second Semester	Hours		
TSTC 100	Introduction to Transportation Services	2	TSTC 130	Electrical I	2
TSTC 171	Brakes I	2	TSTC 160	Electrical II	2
TSTG 175	Brakes II	2	TSTG 135	Starting and Charging Systems	2
TSTC 170	Chassis Fundamentals	2	TSTC 101	Maintenance and Inspection	3
TSTG 120	Industrial Safety Practices	2	CADT 101	Computer Applications	1
MATH 107	Career Mathematics or higher	3	Essential Learning: Social Sciences,		
KINE 100	Health and Wellness	1	Natural Science, Fine Arts or Humanities		<u>6</u>
KINA XXX	Activity	1			16
ENGL 111	English Composition	<u>3</u>			
		18			

Third Semester	Hours	Fourth Semester	Hours	
ENGL112 OR SPCH 101 OR SPCH 102	3	TSTA 267	Body/Chassis Controls	3
TSTA245	Manual Drive Trains or	TSTA 287	Engine Performance and Emissions	3
TSTA247	Automatic Drive Trains	TSTG 195	Climate Control	4
TSTG 275	ABS/Diagnostics	TSTA/G	Restricted Electives	<u>8</u>
TSTA 265	Engine Control Service			18
TSTA 275	Alignment and Suspension Service			
TSTG 220	Work Place Skills			
				<u>3</u>
				18

POLICIES:

1. Please see the catalog for a complete list of graduation requirements.
2. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.** You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.**
3. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
4. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
5. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).