



**2013-2014 PETITION/PROGRAM SHEET**  
**Degree: Associate of Applied Science**  
**Major: Transportation Services**  
**Emphasis: Diesel Technology**

**About This Emphasis . . .**

In the Associate of Applied Science degree with a major in Transportation Services and emphasis in Diesel Technology, 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 diesel technology emphasis concentrates on on-road trucks and light duty diesel-powered vehicles. Students will be prepared for careers as diesel 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>

**POLICIES:**

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the catalog for a complete list of graduation requirements.
2. 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. 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.**
4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature.
5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. 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.
7. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).

**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 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 \_\_\_\_\_ 20\_\_\_\_

\_\_\_\_\_  
Signature of Department Head \_\_\_\_\_ Date \_\_\_\_\_ 20\_\_\_\_

\_\_\_\_\_  
Signature of Registrar \_\_\_\_\_ Date \_\_\_\_\_ 20\_\_\_\_

**Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.**

**Degree Requirements:**

- 69 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 “Undergraduate Graduation Requirements” in the catalog for additional graduation information.

**GENERAL EDUCATION 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 general education 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 general education requirement.

Course No Title	Sem.hrs	Grade	Term/Trns
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**Communication** (6 semester hours)

ENGL 111 English Composition	3	_____	_____
ENGL 112 English Composition	3	_____	_____

**-OR-**

ENGL 111 English Composition <b>and</b>	3	_____	_____
SPCH 101 Interpersonal Communication <b>or</b>	3	_____	_____
SPCH 102 Speechmaking	3	_____	_____

**Mathematics: MATH 107 Career Mathematics or higher** (Minimum 3 semester hours)

_____	3	_____	_____
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**Social Science, Natural Science, Fine Arts or Humanities, Fine Arts, or Humanities or Selected Applied Studies Courses\*** (Minimum 6 semester hours)

_____	3	_____	_____
_____	3	_____	_____

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

**Choose 29 semester hours from:**

- TSTA 245 Manual Drive Trains (4)
- TSTA 275 Alignment and Suspension Service (3)
- TSTA 267 Body and Chassis Controls (2)
- TSTA 287 Engine Performance and Emissions 2)
- TSTA 289 Alternative Fueled Vehicles (2)
- TSTD 177 Air Systems Repair and Service (2)
- TSTD 215 Diesel Engine Reconditioning (5)
- TSTD 265 Diesel Engine Controls (3)
- TSTD 275 Heavy Duty Suspension (2)
- WELD 151 Introduction to Welding (3)

Course No Title	Sem.hrs	Grade	Term/Trns
<b><u>OTHER LOWER DIVISION REQUIREMENTS</u></b>			
<b>Wellness</b> (2 semester hours)			
KINE 100 Health and Wellness	1	_____	_____
KINA 1 _____	1	_____	_____

**ASSOCIATE OF APPLIED SCIENCE: TRANSPORTATION SERVICES – DIESEL TECHNOLOGY COURSE REQUIREMENTS**  
(52 semester hours)

**Required Courses:** (23semester hours)

TSTC 100	Intro to Transportation Services 1	_____	_____
TSTC 101	Vehicle Service and Inspection 2	_____	_____
TSTC 110	Engine Fundamentals 1	_____	_____
TSTC 130	Electrical Fundamentals 2	_____	_____
TSTC 140	Drive Train Fundamentals 1	_____	_____
TSTC 160	Electronic Control Systems 2	_____	_____
TSTC 170	Chassis Fundamentals 1	_____	_____
TSTC 171	Brake System Fundamentals 2	_____	_____
TSTC 180	Fuel System Fundamentals 1	_____	_____
TSTC 190	Climate Control Fundamentals 1	_____	_____
TSTG 120	Industrial Safety Practices 3	_____	_____
TSTG 150	Fluid Power 3	_____	_____
TSTG220	Industry Employment Practices 3	_____	_____

**Choose 29 credit hours from list below.**

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
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- TSTD 285 Diesel Fuel Injection (2)
- TSTG 115 Gas Engine Reconditioning (4)
- TSTG 135 Electrical Component Repair (2)
- TSTG 140 Job Shop (4)
- TSTG 170 Practical Application (4)
- TSTG 175 Hydraulic Brake Service (2)
- TSTG 195 Climate Control Service (2)
- TSTG 240 Advanced Job Shop (4)
- TSTG270AdvancedPracticalApplications(4)

**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 \$1,675.00. 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.

## SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH AN EMPHASIS IN TRANSPORTATION SERVICES – DIESEL TECHNOLOGY

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.

### FRESHMAN YEAR

Fall Semester	Hours	Spring Semester	Hours
TSTC 100	Introduction to Transportation Services 1	TSTC 140	Drive Train Fundamentals 1
TSTC 101	Vehicle Service and Inspection 2	TSTC 171	Brake System Fundamentals 2
TSTC 110	Engine Fundamentals 1	TSTC 180	Fuel System Fundamentals 1
TSTC 130	Electrical Fundamentals 2	TSTC 190	Climate Control Fundamentals 1
TSTC 160	Electronic Control Systems 2	TSTG 150	Fluid Power 3
TSTC 170	Chassis Fundamentals 1	TSTA/G/D	Electives 6
TSTG 120	Industrial Safety Practices 3	ENGL 111	English Composition <u>3</u>
MATH 107	Career Mathematics or higher 3		17
Electives	TSTA/G/D <u>3</u>		
	18		

### SOPHOMORE YEAR

Fall Semester	Hours	Spring Semester	Hours
General Education Soc/Beh Sci., Humanities, Speech	3	TSTG 220	Industry Employment Practices 3
ENGL 112 or SPCH 101 or SPCH 102	3	TSTA/G/D	Electives 9
TSTA/G/D	Electives <u>11</u>	KINE 100	Health and Wellness 1
	17	KINA xxx	Activity 1
		General Education Soc/Beh Sci., Humanities, Speech	<u>3</u>
			17