2014-2015 PETITION/PROGRAM SHEET
Degree: Associate of Applied Science
Major: Transportation Services
Emphasis: Automotive Technology

About This Emphasis...
In the Associate of Applied Science degree with a major in Transportation Services, and emphasis in Automotive 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 Automotive Technology 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 finding 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 20

Signature of Department Head Date 20

Signature of Registrar Date 20

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Posted June 2014
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.

<table>
<thead>
<tr>
<th>Course No</th>
<th>Title</th>
<th>Sem.hrs</th>
<th>Grade</th>
<th>Term/Trns</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition</td>
<td>3</td>
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<td>ENGL 112</td>
<td>English Composition</td>
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<tr>
<td>ENGL 111</td>
<td>English Composition and Interpersonal Communication</td>
<td>3</td>
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<tr>
<td>SPCH 101</td>
<td>Interpersonal Communication or Speechmaking</td>
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Mathematics: Minimum Math 107 Career Mathematics (Minimum 3 semester hours)

- 3

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

- 3

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

**Course No | Title | Sem.hrs | Grade | Term/Trns**

- **OTHER LOWER DIVISION REQUIREMENTS**
  - Wellness (2 semester hours)
    - KINE 100 Health and Wellness 1
    - KINA 1

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

**Required Courses:** 23 semester 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
- TSTC 120 Industrial Safety Practices 3
- TSTC 150 Fluid Power 3
- TSTC 220 Industry Employment Practices 3

Choose 29 semester hours from list below.

**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.
SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH A MAJOR IN TRANSPORTATION SERVICES, EMPHASIS IN AUTOMOTIVE 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

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

<table>
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<tr>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 112 or SPCH 101 or SPCH 102</td>
<td>3</td>
<td>TSTA/G/D  Electives</td>
<td>9</td>
</tr>
<tr>
<td>TSTA/G/D  Electives</td>
<td>11</td>
<td>KINE 100  Health and Wellness</td>
<td>3</td>
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<td></td>
<td>17</td>
<td>KINA XXX  Activity</td>
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<td>17</td>
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</table>

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).