



## 2008 – 09 PETITION/PROGRAM SHEET

**Degree: Associate of Applied Science**

**Major: Transportation Services**

**Emphasis: Automotive Technology**

**[www.mesastate.edu/wccc/trans.htm](http://www.mesastate.edu/wccc/trans.htm)**

### About This Emphasis . . .

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.

### POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the MSC 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 WCCC Director of Instruction for signature.
5. Finally, the WCCC Director of Instruction 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 WCCC Director of Instruction 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:

- 2.00 cumulative GPA or higher in all MSC 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.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student's responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head.
- When filling out the program sheet a course can be used only once.
- See the "Undergraduate Graduation Requirements" in the Mesa State College catalog for additional graduation information.

**GENERAL EDUCATION REQUIREMENTS** (18 semester hours)

See the current Mesa State College 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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**English** (6 semester hours)

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

**Math: MATH 113 or UTEC 107** (4 semester hours)

_____	_____	4	_____	_____	_____
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**Social and Behavioral Science, Humanities or Selected Speech Courses** (6 semester hours)

_____	_____	3	_____	_____	_____
_____	_____	3	_____	_____	_____

**Kinesiology** (2 semester hours)

KINE 100	Health and Wellness	1	_____	_____	_____
KINA 1	_____	1	_____	_____	_____

**Choose 30 semester hours from:**

TSTA 245 Manual Drive Trains  
TSTA 247 Automatic Drive Train Service  
TSTA 265 Engine Control Services  
TSTA 267 Body and Chassis Controls  
TSTA 275 Alignment and Suspension Service  
TSTA 287 Engine Performance and Emissions  
TSTD 285 Diesel Fuel Injection  
TSTG 115 Gas Engine Reconditioning

TSTG 135 Electrical Component Repair  
TSTG 140 Job Shop  
TSTG 170 Practical Application  
TSTG 175 Hydraulic Brake Service  
TSTG 195 Climate Control Service  
TSTG 240 Advanced Job Shop  
TSTG 270 Advanced Practical Applications

**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 \$1675.00. 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.

Course	No	Title	Sem.hrs	Grade	Term/Trns
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**ASSOCIATE OF APPLIED SCIENCE: TRANSPORTATION SERVICES – AUTOMOTIVE TECHNOLOGY COURSE REQUIREMENTS**

(55 semester hours)

**Required Courses:** (26 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	_____	_____	_____
UTEC 120	Industrial Safety Practices	3	_____	_____	_____
UTEC 150	Fluid Power	3	_____	_____	_____
UTEC 220	Industry Employment Practices	3	_____	_____	_____
WELD 151	Industrial Welding	2	_____	_____	_____

**Choose 30 semester hours from:** TSTA 245, TSTA 247, TSTA 265, TSTA 267, TSTA 275, TSTA 287, TSTD 285, TSTG 115, TSTG 135, TSTG 140, TSTG 170, TSTG 175, TSTG 195, TSTG 240, TSTG 270

## 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 Mesa State website for course availability.

### FRESHMAN YEAR

<b>Fall Semester</b>		<b>Hours</b>	<b>Spring Semester</b>		<b>Hours</b>
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 190	Climate Control Fundamentals	1
TSTC 130	Electrical Fundamentals	2	UTEC 150	Fluid Power	3
TSTC 160	Electronic Control Systems	2	TSTG/A	Electives	9
TSTC 170	Chassis Fundamentals	1	KINE 100	Health and Wellness	1
TSTC 180	Fuel System Fundamentals	1	KINA	Activity	<u>1</u>
UTEC 120	Industrial Safety Practices	3			18
UTEC 107	Math for Technology <u>or</u>				
MATH 113	College Algebra	4			
ENGL 111	English Composition	<u>3</u>			
		20			

### SOPHOMORE YEAR

<b>Fall Semester</b>		<b>Hours</b>	<b>Spring Semester</b>		<b>Hours</b>
WELD 151	Industrial Welding	2	UTEC 220	Industry Employment Practices	3
General Education Soc/Beh Sci., Humanities, Speech		3	TSTG/A	Electives	9
ENGL 112	English Composition	3	TSTG	Electives	3
TSTA/G	Electives	<u>9</u>	General Education Soc/Beh Sci., Humanities, Speech		<u>3</u>
		17			18