

2007 – 08 PETITION/PROGRAM SHEET

Degree: Associate of Applied Science Major: Transportation Services Emphasis: Automotive Technology 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:		
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I, (Signature) on the Program Sheet. I further certify that the grade listed for the currently enrolled and the courses which I complete next semester.	se courses is the final course grade received excep-	t for the courses in which I am
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Signature of Advisor	Date	
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Signature of WCCC Director of Instruction	Date	
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Signature of Registrar	Date	

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 each course which comprises the area of emphasis or specialization for TSTA, TSTC, TSTD and TSTG.
- 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	<u>Choose 30 semester hours from:</u> TSTA 245, TSTA 247, TSTA 265 TSTA 267, TSTA 275, TSTA 287, TSTD 285, TSTG 115, TSTG 135
English (6 semester hours) ENGL 111 English Composition ENGL 112 English Composition	3 3		TSTG 140, TSTG 170, TSTG 175, TSTG 195, TSTG 240, TSTG 270
Math: MATH 113 or UTEC 107 (4 sem	ester hours		
Social and Behavioral Science, Humani Courses (6 semester hours)	ties or Sele	cted Speech	
	3		
Kinesiology (2 semester hours) KINE 100 Health and Wellness	1		
KINA 1	l		

Course No Title Sem.hrs Grade Term/Trns

ASSOCIATE OF APPLIED SCIENCE: TRANSPORTATION SERVICES - AUTOMOTIVE TECHNOLOGY COURSE REQUIREMENTS

(55 semester hours)

Required Cou	irses: (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	

,	ISTA 275, TSTA 287, TSTD 2 ISTG 170, TSTG 175, TSTG 1	,	,	
1510 140,	1510 170, 1510 175, 1510 1	23, 1510	240, 151	0 270
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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.

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 their advisor and check the 2 year course matrix on the Mesa State website for course availability.

FRESHMAN YEAR

Fall Semester	He	ours	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 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 or				
MATH 113	College Algebra	4			
ENGL 111	English Composition	3			
	-	20			

SOPHOMORE YEAR

Fall Semester		<u>Hours</u>	Spring Semes	ter	Hours
WELD 151	Industrial Welding	2	UTEC 220	Industry Employment Practices	3
General Educati	on 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