



2007 – 08 PETITION/PROGRAM SHEET
Degree: Technical Certificate
Major: Transportation Services
Emphasis: Diesel Mechanics
www.mesastate.edu/wccc/trans.htm

About This Certificate . . .

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 degree concentrates on on-road trucks and light duty diesel-powered vehicles.

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

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Signature of WCCC Director of Instruction

Date

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Signature of Registrar

Date

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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
- "C" or better 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.
- 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.
- Please see faculty advisor for approved electives.
- See the "Undergraduate Graduation Requirements" in the Mesa State College catalog for additional graduation information

Technical Certificate: Transportation Services – Diesel Mechanics

(39 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
TSTC 100	Intro to Transportation Services	1	_____	_____
TSTC 101	Vehicle Service & Inspection	2	_____	_____
TSTC 110	Engine Fundamentals	1	_____	_____
TSTC 130	Electrical Fundamentals	2	_____	_____
TSTC 140	Drive Train Fundamentals	1	_____	_____
TSTC 160	Electrical Control Fundamentals	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 107	Math for Technology	4	_____	_____

Course No	Title	Sem.hrs	Grade	Term/Trns
UTEC 120	Industry Safety Practices	3	_____	_____
UTEC 150	Fluid Power	3	_____	_____
WELD 151	Industrial Welding	2	_____	_____

Restricted Electives. Choose 13 semester hours from: TSTA 245, TSTA 265, TSTA 287, TSTD 177, TSTD 215, TSTD 265, TSTD 275, TSTD 285, TSTG 135, TSTG 140, TSTG 170, TSTG 175, TSTG 195, TSTG 240, TSTG 270, UTEC 220 (Please see advisor when selecting electives).

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SUGGESTED COURSE SEQUENCING FOR THE TECHNICAL CERTIFICATE WITH A MAJOR IN TRANSPORTATION SERVICES, EMPHASIS IN DIESEL MECHANICS

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.

First Semester		Hours
TSTC 100	Introduction to Transportation Services	1
TSTC 101	Vehicle Service and Inspection	2
TSTC 110	Engine Fundamentals	1
TSTC 130	Electrical Fundamentals	2
TSTC 160	Electronic Control Fundamentals	2
TSTC 170	Chassis Fundamentals	1
TSTC 180	Fuel System Fundamentals	1
UTEC 120	Industry Safety Practices	3
WELD 151	Industrial Welding	2
UTEC 107	Math for Technology	<u>4</u>
		19

Second Semester		Hours
TSTC 140	Drive Train Fundamentals	1
TSTC 171	Brake System Fundamentals	2
TSTC 190	Climate Control Fundamentals	1
UTEC 150	Fluid Power	3
TSTG/D	Electives	<u>13</u>
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