2010-2011 PETITION/PROGRAM SHEET
Award: Technical Certificate
Program of Study: Transportation Services
Specialization: Diesel Mechanics
www.mesastate.edu/wccc/programs.html

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 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
- “C” or better in each course which comprises the area of emphasis or specialization.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the MSC 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.
- 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 $2,500.00. 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
(36 Semester Hours)

Course Title | Sem.hrs | Grade | Term/Trams
--- | --- | --- | ---
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 | | |

**Choose 10 semester hours from:**

- TSTA 245 Manual Drive Trains (4)
- TSTA 265 Engine Control Services (2)
- TSTA 267 Body and Chassis Controls (2)
- TSTA 287 Engine Performance and Emissions (2)
- TSTG 135 Electrical Component Repair (2)
- TSTA 289 Alternative Fueled Vehicles (2)
- TSTG 140 Job Shop (4)
- TSTD 177 Air Systems Repair and Service (2)
- TSTG 170 Practical Application (4)

Choose 10 semester hours from:

- TSTD 215 Diesel Engine Reconditioning (5)
- TSTD 215 Diesel Engine Controls (2)
- TSTD 265 Heavy Duty Suspension (2)
- TSTD 275 Diesel Fuel Injection (2)
- TSTG 270 Advanced Practical Applications (4)
- TSTG 220 Industry Employment Practices (3)
SUGGESTED COURSE SEQUENCING FOR THE TECHNICAL CERTIFICATE
WITH A PROGRAM OF STUDY IN TRANSPORTATION SERVICES,
SPECIALIZATION 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 the assigned advisor and check the 2 year course matrix on the Mesa State website for course availability.

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<th>Hours</th>
<th>Second Semester</th>
<th>Hours</th>
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<tr>
<td>TSTC 100 Introduction to</td>
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<td>TSTC 140 Drive Train Fundamentals</td>
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<td>TSTC 171 Brake System Fundamentals</td>
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<td>TSTC 101 Vehicle Service and</td>
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<td>TSTC 190 Climate Control Fundamentals</td>
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<td>TSTC 180 Fuel System Fundamentals</td>
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<td>TSTC 110 Engine Fundamentals</td>
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<td>TSTG 150 Fluid Power</td>
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<td>TSTC 130 Electrical Fundamentals</td>
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<td>TSTC 160 Electronic Control</td>
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<td>TSTC 170 Chassis Fundamentals</td>
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<td>UTEC 107 Math for Technology</td>
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