

# Diesel/Heavy Equipment

College of Rural and Community Development  
Tanana Valley Campus  
(907) 455-2809  
[www.tvc.uaf.edu/programs/diesel/](http://www.tvc.uaf.edu/programs/diesel/)

## Certificate

Minimum Requirements for Certificate: 41 Credits

The diesel and heavy equipment mechanics program offers the student training in the maintenance and repair of trucks, buses and heavy equipment. This one-year certificate program emphasizes hands-on training and in-class experience as students form preventive maintenance inspections, determine causes of equipment problems and make necessary repairs and adjustments from tune-ups to complete engine and equipment overhauls. Students work on large truck fuel, electrical and air systems, diesel engines, transmissions, differentials, crawler tractor undercarriages, steering and final drives. A student may request credit by examination for any DSLT or MECN class. See department coordinator for details.

1. Complete the general university requirements (page 83).
2. Complete the certificate requirements (page 85). As part of the certificate requirements, the computation content is embedded in the major required courses for this program.

## Major Requirements

3. Complete the following:

DSLTL 121—Drive Axles .....	1
DSLTL 122—Heavy Duty Drivelines .....	1
DSLTL 123—Heavy Duty Braking Systems .....	2
DSLTL 135—Internal Combustion Engines .....	5
DSLTL 154—Diesel Fuel Injection .....	2
DSLTL 201—Manual Transmissions and Differentials .....	4
DSLTL 202—Heavy Duty Automatic Transmissions .....	2
DSLTL 253—Diesel Fuel Delivery Systems .....	5
DSLTL 254—Advanced Engine Overhaul .....	4
DSLTL 255—Final Drives, Tracked Vehicles .....	2
MECN 103—Starting and Charging Systems .....	1
MECN 210—Hydraulics .....	2
WMT 103—Welding I .....	3
WMT 105—Welding II .....	3
4. Minimum credits required .....