



**Vincennes University
Diesel Technology
Twin Rivers afternoon
Class Schedule**

4259 N Purdue Road
Vincennes, IN



Fall Classes

- ✓ **DESL 110 Transportation Electrical 3 hrs Sem I MWF 1:00 – 1:50**
Corequisite: DESL 110L
This course addresses the fundamental theories of electricity and electronics as applied to ground transportation technology area. Diagnosis and repair of basic battery, starting, charging, lighting, accessories, and wiring systems will be covered. Utilization of analog and digital meters, wiring diagrams, and other diagnostic tools will be stressed. 3 lecture hours.

- ✓ **DESL 110L Transportation Electrical Lab 1 hr (Sem I) MWF 2:00 – 2:50**
Corequisite: DESL 110
This course is a hands-on course that introduces the student to automotive electrical theory, batteries, charging systems, starting systems, wiring repairs, lighting systems and accessories. 3 laboratory hours. **Lab fee \$50.00**

- ✓ **DESL 140 Diesel Hydraulic Systems 2 hrs (Sem I) TR 12:30-1:20, Text book required**
Corequisite: DESL 140L. The study of hydrostatic and hydrodynamic system theory of operation, including gear, piston pumps spool, poppet, and electro-hydraulic valves problem diagnosis and repair procedures. 2 lecture hours.

- ✓ **DESL 140L Diesel Hydraulic Systems Laboratory 2 hrs (Sem I) TR 1:30 – 4:20**
Corequisite: DESL 140. This is a hands-on course that introduces the student to the repair and troubleshooting of hydrostatic and hydrodynamic systems. The course will include the repair of gear and piston type pumps, spool, poppet and electro-hydraulic valves. 6 laboratory hours. **Lab fee \$60.00**

Spring Classes

- ✓ **DESL 160 Diesel Preventative Maintenance/ 3 hrs (Sem II) TR 12:30 – 1:50**
Corequisite: DESL 260L. Course coverage includes inspection of cab and body, tires and wheels, engine compartment, electrical/electronics and cab, undercarriage components. These tasks will be done to DOT specifications. Pre-trip inspections are also covered. 3 lecture hours.

- ✓ **DESL 160L Diesel Preventative Maintenance Laboratory 1 hr (Sem II) TR 2:00 – 3:20**
Corequisite: DESL 260. This is a hands-on course that introduces the student to the inspection of a vehicle's cab, body, tires, wheels, engine compartment, electrical/electronic systems, and undercarriage components per DOT specifications. Pre-trip inspections will also be performed. 3 laboratory hours. **Lab fee \$66.00**

DESL 240 - Diesel Electronic Systems 3 hrs Sem II MW 12:30-2:00
A continuation of AUTO 110 which addresses the diagnosis and repair of various electrical and electronic systems commonly found on vehicles today. Electrical/electronic troubleshooting will be stressed. 3 lecture hours. Prerequisite(s): A grade of C or better in AUTO 110 .

Corequisite(s): DESL 240L .
DESL 240L - Diesel Electronic Systems Laboratory 2 hrs (Sem I)
This is a hands-on course that introduces the student to the diagnosis and repair of various electrical and electronic systems commonly found on modern vehicles. Electrical/Electronic troubleshooting will be stressed. 6 laboratory hours. Corequisite(s): DESL 240 . **Lab fee \$63.00**

VU Technology Fee \$20.00 per credit hour

- ❖ **Additional information:** Dress code; Work Uniform
Text books and Tools required.

Contacts:
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Diesel Technologies 8273, 8274, & 8275

Diesel Truck/John Deere Tech Technology is a comprehensive two-year A.S. degree designed to prepare the student for gainful employment in the Diesel Technical field. Graduates also have the opportunity to transfer to a baccalaureate degree program.

Students will train in areas of Safety, Diesel Engines, Drive Trains, Electrical/Electronics, onboard computers and Multiplexing, Brakes, ABS, Hydraulics, Steering and Suspension Systems, Global Positioning Systems and Preventive Maintenance. Topics studied will include Fundamentals, theory, inspection, diagnostic procedures and repair.

Areas of Career Interest:

Truck Dealerships	Engine Dealerships	Heavy Equipment Dealerships
Trucking Companies	Agriculture Equipment Dealerships	Independent Repair Shops
Mining	Truck Rental and Leasing	Automotive Shops/Diesel Specialist
Construction Companies	Railroads	Bus Lines
Marine Companies	Agriculture Applicators	Fuel Injection Repair Shops
Parts Department	Trailer Sales and Service	Hydraulic Repair Shop
Electrical Component Repair	Truck Stops	Major Manufacture R&D

WHY VU?

- VU offers free tutoring through its study skills laboratory, as well as developmental courses if you need to brush up on your general education subjects.
- The type and quality of equipment used is identical to that found in industry.
- Faculty members have extensive in field and teaching experience to ensure that you receive instruction in both theory and practical applications.

There are employment opportunities for quality technicians. Nearly every community has a need for top quality technicians. If you would really like to contribute to transportation, heavy equipment, agriculture or turf care this is the area for you.

Below is the recommended course sequence for this program. Recommended courses assume any developmental requirements have been met.

<p><u>Semester I Diesel</u> Trans Electrical Preventive Maint. English Composition I Speech</p>	<p><u>Semester II Diesel</u> Diesel Engine Hydraulics Math Elective Social Science</p>	<p><u>Semester III Diesel</u> DR Trains Electronics Fuel, coolants & Lube UCC Elective</p>	<p><u>Semester IV Diesel</u> HVAC Chassis Sys UCC Elective</p>
<p><u>Sem. I John Deere</u> Trans Electrical Ag Machinery Commercial & Consumer Products English Composition I</p>	<p><u>Sem. II John Deere</u> Diesel Engine Hydraulics Speech Math Elective Social Science</p>	<p><u>Sem. III John Deere</u> DR Trains Electronics Fuel, coolants & Lube UCC Elective</p>	<p><u>Sem. IV John Deere</u> HVAC Advanced Hydraulic Advanced Diagnostics UCC Elective</p>

