

DIESEL (DSL)

DSL-143 Fundamentals of Electricity (3)

Covers introduction to electricity, i.e. voltage, amperage and resistance with emphasis on Ohm's Law and its practical application. Meter fundamentals are covered. Series, parallel and series-parallel circuits are studied. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

DSL-335 Advanced Diesel Electronics (3)

Continues the basic electrical coverage of DSL-143 Fundamentals of Electricity. Introduces operation, repair of electrical systems, and wiring harnesses. Utilizes multimeters, fault codes, and a variety of scan tools to diagnose electrical system malfunctions. Arts & Sciences Elective Code: B

Hours per week: 1.0 lecture, 4.0 lab

Prerequisite: Take AGM-406. Take AGM-113. Take AGM-427.

DSL-345 Truck Engines (3)

Covers the introduction to diesel engines commonly used in the trucking industry. The design of engine components and subassemblies is examined with emphasis on the reasons certain design features are used. Correct procedures for testing and servicing truck engines are explained and demonstrated. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

Prerequisite: Take DSL-355.

DSL-347 Diesel Engines I (3)

Covers the introduction to diesel engines commonly used in the Trucking and Ag industry. The design of engine components and subassemblies is examined with emphasis on why certain design features are used. Correct procedures for testing and servicing truck and ag engines are explained and demonstrated. Introduces truck and ag cooling systems. The principles of cooling systems and the standard components of cooling systems are examined. Testing and servicing of cooling systems from a truck and perspective are explained. Arts & Sciences Elective Code: B

Hours per week: 1.0 lecture, 4.0 lab

Corequisite: Take DSL-355.

DSL-348 Diesel Engines II (3)

Covers diesel fuel systems in relation to the engine itself. Diagnose, test and troubleshooting take place using special tools. Particular fundamentals are covered in compression testing, pump timing, engine component testing, injector removal and testing and repair. Arts & Sciences Elective Code: B

Hours per week: 1.0 lecture, 4.0 lab

Prerequisite: Take AGM-406. Take AGM-113. Take AGM-427.

DSL-355 Fundamentals of Internal Combustion Engines (3)

Covers fundamentals of two- and four-stroke engine operation, servicing and adjustment. Learning activities concentrate on proper disassembly, measuring and reassembly of actual engines. Arts & Sciences Elective Code: B

Hours per week: 2.0 lecture, 2.0 lab

DSL-808 Truck and Trailer Servicing (4)

Involves servicing and repair to semi tractors and trailers. Learning activities include electrical, power train, brakes, air conditioning, DOT inspection, communication skills and tune-up. Arts & Sciences Elective Code: B

Hours per week: 8.0 lab

Prerequisite: Take AGM-406. Take AGM-113. Take AGM-427.

DSL-809 Truck and Trailer Chassis (2)

Covers a basic introduction to air brakes and anti-locking braking systems. Learning activities concentrate on theory, operation, diagnosis, maintenance, and repair of air and anti-lock brakes found on diesel trucks. Also covers operation of steering components and servicing. Teaches theory and operation of air ride and spring suspension components on light and heavy duty trucks. Arts & Sciences Elective Code: B

Hours per week: 1.0 lecture, 2.0 lab

Prerequisite: Take AGM-406. Take AGM-113. Take AGM-427.