

2021-2022 TTC Catalog - Diesel Mechanics

DHM 101 - Introduction to Diesel Engines

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Fall

This course is an introduction to diesel engine design and operation principles.

Prerequisite

DHM 159

and

DHM 173

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 107 - Diesel Equipment Service and Diagnosis

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Spring

This course is a study of heavy vehicle systems with emphasis on preventive maintenance, problem diagnosis, and repair procedures.

Prerequisite

DHM 101

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 151 - Automatic and Automated Transmissions

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

This course is a study of the theory and repair of drive trains systems.

Prerequisite

DHM 101

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 152 - Automatic and Automated Transmissions

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Summer

This course is a study of heavy vehicle transmissions.

Prerequisite

DHM 151

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 159 - Shop Orientation - Tools, Equipment and Service Manuals

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall

This course is the study of shop layout, vehicle lifts, basic hand tools, special tools and equipment, precision measuring tools, and vehicle repair information systems.

Prerequisite

MAT 032

or have appropriate test scores

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 173 - Electrical Systems I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of basic electrical theory as applied to truck and heavy equipment batteries, starters, and alternators.

Prerequisite

MAT 032

or have appropriate test scores

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 225 - Electronic Fuel Systems

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

Spring

Summer

This course covers the theory and practical application of electronic fuel power systems.

Prerequisite

DHM 101

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 232 - Heating Cooling and Air-Conditioning Systems

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is an introduction to engine heating and cooling systems used in modern trucks. Various truck and heavy equipment air conditioning systems are explored.

Prerequisite

DHM 159

and

DHM 173

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 251 - Suspension and Steering

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of steering systems, suspension systems, and basic front-end alignment techniques.

Prerequisite

DHM 159
and
DHM 173

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

DHM 255 - Air Brake Systems

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of air compressors, valves, electrical controls and brake designs.

Prerequisite

DHM 159
and
DHM 173

Grade Type: Letter Grade

Division: Manufacturing and Maintenance
