



DIESEL AND HEAVY EQUIPMENT MECHANICS

ASSOCIATE IN APPLIED SCIENCE, 71 Hours

Sample Course Schedule*

First Semester

ORI101	Orientation	1
CIS146	Microcomputer Applications	3
DEM111	Equipment Safety/Mechanical Fundamentals	3
DEM104	Basic Engines	3
DEM105	Preventative Maintenance	3
DEM156	CDL License Test Preparation	3
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Second Semester

ENG101	English Composition I	3
DEM135	Heavy Vehicle Steering & Suspension Systems	3
DEM137	Heating, Air Conditioning, and Refrigeration Systems	3
DEM117	Diesel and Gas Tune-up	3
ELECTIVE	Natural Science and Mathematics	3
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Third Semester

DEM122	Heavy Vehicle Brakes	3
DEM123	Pneumatics and Hydraulics	3
DEM124	Electronic Engine Systems	3
MTH116	Mathematical Applications	3
ELECTIVE	Humanities/Fine Arts	3
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Fourth Semester

DEM126	Advanced Engines	3
DEM127	Fuel Systems	3
DEM125	Heavy Vehicle Drive Trains	3
SPH106	Fundamentals of Oral Communication	3
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Fifth Semester

DEM130	Electrical/Electronic Fundamentals	3
DEM270	CNG/LPG/LNG Safety	1
DEM271	CNG/LPG/LNG Ignition Systems	3
DEM272	CNG/LPG/LNG Fuel Systems	3
ELECTIVE	History, Social & Behavioral Sciences	3
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*This is a sample course sequence. Courses scheduled each semester may vary according to student progress and the need for developmental classes.

Degree Requirements

AREA I: WRITTEN COMPOSITION	3 HOURS
ENG101: English Composition I	3 HOURS
AREA II: HUMANITIES AND FINE ARTS	6 HOURS
SPH106: Fundamentals of Oral Communication	3 HOURS
HUMANITIES/FINE ARTS ELECTIVE: Choose from HUM101: Introduction to Humanities I, IDS102: Ethics or REL100: History of World Religions; ART100: Art Appreciation, MUS101: Music Appreciation or THR120: Theatre Appreciation	3 HOURS
AREA III: NATURAL SCIENCE AND MATHEMATICS	6 HOURS
MTH116: Mathematical Applications	3 HOURS
NATURAL SCIENCE AND MATHEMATICS ELECTIVE: Choose from BIO103: Principles of Biology I, BIO104: Principles of Biology II, CHM111: College Chemistry I, CHM112: College Chemistry II, PHS111: Physical Science I, PHS112: Physical Science II, PHY201: General Physics I, PHY202: General Physics II, PHY213: General Physics with Calculus I; or PHY214: General Physics with Calculus II; MTH100: Intermediate College Algebra, MTH112: Precalculus Algebra, MTH113: Precalculus Trigonometry, MTH125: Calculus I or higher	3 HOURS
AREA IV: HISTORY, SOCIAL AND BEHAVIORAL SCIENCES	3 HOURS
HISTORY, SOCIAL AND BEHAVIORAL SCIENCES ELECTIVE: Choose from HIS101: Western Civilization I, HIS102: Western Civilization II, HIS201: U.S. History I, or HIS202: U.S. History II; ECO231: Principles of Macroeconomics or ECO232: Principles of Microeconomics; GEO100: World Regional Geography; PSY200: General Psychology or PSY210: Human Growth and Development; SOC200: Introduction to Sociology; POL211: American National Government; SPH116: Introduction to Interpersonal Communications	3 HOURS
AREA V: PRE-PROFESSIONAL, MAJOR AND ELECTIVE COURSES	53 HOURS
ORI101: Orientation	1 HOUR
CIS146: Microcomputer Applications	3 HOURS
DEM104: Basic Engines	3 HOURS
DEM105: Preventative Maintenance	3 HOURS
DEM111: Equipment Safety/Mechanical Fundamentals	3 HOURS
DEM117: Diesel and Gas Tune-up	3 HOURS
DEM122: Heavy Vehicle Brakes	3 HOURS
DEM123: Pneumatics and Hydraulics	3 HOURS
DEM124: Electronic Engine Systems	3 HOURS
DEM125: Heavy Vehicle Drive Trains	3 HOURS
DEM126: Advanced Engine Analysis	3 HOURS
DEM127: Fuel Systems	3 HOURS
DEM130: Electrical/Electronic Fundamentals	3 HOURS
DEM135: Heavy Vehicle Steering & Suspension Systems	3 HOURS
DEM137: Heating, Air Conditioning, and Refrigeration Systems	3 HOURS
DEM156: CDL License Test Preparation	3 HOURS
DEM270: CNG/LPG/LNG Safety	1 HOUR
DEM271: CNG/LPG/LNG Ignition Systems*	3 HOURS
DEM272: CNG/LPG/LNG Fuel Systems*	3 HOURS

*Students have the option to take WDT108: SMAW Fillet OFC and WDT122: SMAW Fillet OFC Lab in place of DEM271 and DEM272.

