

Long-Term Certificate

Program

Vehicle Technology and Repair

Degree Type

Long-Term Certificate

Location

Hamilton & Sumiton Campuses

Orientation

Item #	Title	Credits
ORI 107	STUDENT SURVIVAL SKILLS	1

General Studies Courses

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION I	3
	MTH 116 or Higher	3

Field of Study Courses

Item #	Title	Credits
VTR 112	ELECTRICAL FUNDAMENTALS	3
VTR 133	HEATING AND AIR CONDITIONING	3

Choose one of the following options (VT1 or VT3)

AUTOMOTIVE SERVICE EXCELLENCE OPTION (VT1)

Choose nine courses (27 credits required)

Item #	Title	Credits
ASE/AUM 101	FUNDAMENTALS OF AUTOMOTIVE TECHNOLOGY	3
ASE/AUM 121	BRAKING SYSTEMS	3
ASE/AUM 122	SUSPENSION AND STEERING	3
ASE/AUM 124	AUTOMOTIVE ENGINES	3
ASE/AUM 130	DRIVE TRAIN & AXLES	3
ASE/AUM 162	ELECTRICAL AND ELECTRONIC SYSTEMS	3
ASE/AUM 212	ADVANCED ELECTRICAL & ELECTRONIC SYSTEMS	3
ASE/AUM 220	ADVANCED AUTOMOTIVE ENGINES	3
ASE/AUM 224	MANUAL TRANSMISSION & TRANSAXLE	3
ASE/AUM 230	AUTO TRANSMISSION & TRANSAXLE	3
ASE/AUM 239	ENGINE PERFORMANCE	3
ASE/AUM 244	ENGINE PERFORMANCE AND DIAGNOSTICS	3
ASE/AUM 246	AUTOMOTIVE EMISSIONS	3
ASE/AUM 221	Light Diesel	3
ASE/AUM 263	Hybrid & Electric Vehicles	3

DIESEL TECHNICIAN OPTION (VT3)

Choose nine courses (27 credits required)

Item #	Title	Credits
DEM 104	BASIC ENGINES	3
DEM 105	PREVENTIVE MAINTENANCE	3
DEM 111	EQUIPMENT SAFETY AND MECHANICAL FUNDAMENTALS	3
DEM 117	DIESEL AND GAS TUNE-UP	3
DEM 122	HEAVY VEHICLE BRAKES	3
DEM 123	PNEUMATIC AND HYDRAULICS	3
DEM 124	ELECTRONIC ENGINE SYSTEMS	3
DEM 125	HEAVY VEHICLE DRIVE TRAINS	3
DEM 126	ADVANCED ENGINE ANALYSIS	3
DEM 127	FUEL SYSTEMS	3
DEM 134	COMPUTER CONTROLLED ENGINE AND POWER TRAIN SYSTEMS	3
DEM 180	SPECIAL PROJECTS IN COMMERCIAL VEHICLES	3
DEM 191	Special Projects in Diesel Mechanics	3
	Total Credits	40