

Diesel Technology • Option for Automotive Technology Graduates

Semester Course Outline • 2024 – 2025

18 Months (4 Semesters) • Revised: 1/17/24

Associate of Applied Science (A.A.S.) Degree • Credits Required for Graduation: 69.5



Diesel Technology courses are taught in a sequential manner, therefore all first year course work must be completed before a student is eligible to enroll in their second year.

First Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
DT 107	Welding Technologies	28	1
DT 117	Shop Management	28	1
DT 137	Powertrains I	84	3
DT 147	Hydraulics	84	3
DT 155	Preventive Maintenance and Inspection	84	3
Total		224	11
<p>Students may transfer in 6.5 credits of equivalent courses (prior learned) for the following:</p> <p>DT 144 – Electrical Systems 3 credits HAZ 100 – Hazardous Materials Safety..... .5 credit Social Science Course Taken 3 credits ECON 105 – Leadership in the Global Workplace ECON 201 – Principles of Microeconomics I ECON 202 – Principles of Macroeconomics II SOC 100 – Introduction to Sociology</p>			

To meet full-time student eligibility for Financial Aid, which is 12 credits, students may select any Agriculture courses as electives.

First Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
DT 126	Multi-cylinder Engine Overhaul	84	3
DT 152	Powertrains II	56	2
DT 165	Heating, Ventilation, and Air Conditioning (HVAC)	84	3
DT 179	Diesel Engines I A	42	1.5
DT 184	Diesel Engines I B	42	1.5
CSC 182	Technician Software	56	2
Total		364	13
<p>Students may transfer in 5 credits of equivalent courses (prior learned) for the following:</p> <p>DT 149 – Hydraulic Brakes1 credit CSC 100 – Computer Concepts1 credit Mathematics Course Taken3 credits MATH 100 – Applied General Math MATH 101 – Intermediate Algebra MATH 114 – College Algebra</p>			

To meet full-time student eligibility for Financial Aid, which is 12 credits, students may select any Agriculture courses as electives.



Second Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
DT 210	Diesel Engines II	84	3
DT 237	Fuel Systems Tune-up and Troubleshooting	84	3
DT 247	Emission Systems	84	3
Total		280	9

Students may transfer in 6 credits of equivalent courses (prior learned) for the following:

DT 238 – Electrical Testing3 credits
 Behavioral Science Course Taken3 credits
 PSYC 100 – Psychology of Human Relations
 PSYC 101 – General Psychology

To meet full-time student eligibility for Financial Aid, which is 12 credits, students may select any Agriculture courses as electives.

• Second Year – Spring Semester Ag/Industrial Tractor Option

Course Number	Course Title	Clock Hours	Credits
DT 245	Hydraulic System Diagnostics	112	4
DT 278	Combine Hydraulic and Electrical Familiarization	56	2
DT 282	Tractor Shop Production	168	6
DT 291	Tractor Electronic Controls/Global Positioning Systems and Auto Steer	84	3
Total		407	15

Students may transfer in 4 credits of equivalent courses (prior learned) for the following:

DT 246 – Heating, Ventilation, and Air Conditioning Testing (HVAC)1 credit
 Communications Course Taken3 credits
 CMST 101 – Foundations of Communication (CSS 100 – Career Search Strategies .5 credit)
 COMM 101 – Communications and Career Strategies
 ENGL 101 – Composition (CSS 100 – Career Search Strategies .5 credit)

To meet full-time student eligibility for Financial Aid, which is 12 credits, students may select any Agriculture courses as electives.



■ **Second Year – Spring Semester – Truck Option**

Course Number	Course Title	Clock Hours	Credits
DT 216	Truck Suspension and Steering (must transfer in 2 credits of prior learning to meet 4 credits)	56	2
DT 217	Truck Brake Systems	112	4
DT 229	Electronic Engine Controls	112	4
DT 231	Truck Drivetrains	70	2.5
Total		351	12.5

Students may transfer in 6.5 credits of equivalent courses (prior learned) for the following:

DT 216 – Truck Suspension and Steering.....2 credits
 DT 246 – Heating, Ventilation, and Air Conditioning Testing (HVAC)1.5 credit
 Social Science Course Taken3 credits
 ECON 105 – Leadership in the Global Workplace
 ECON 201 – Principles of Microeconomics I
 ECON 202 – Principles of Macroeconomics II
 SOC 100 – Introduction to Sociology

To meet full-time student eligibility for Financial Aid, which is 12 credits, students may select any Agriculture courses as electives.

- Students who choose the Tractor Option can transfer in 25 credits of prior learning courses.
- Students who choose the Truck Option can transfer in 27 credits of prior learning courses.

Elective Courses

SCT 100 Solar Car Team – With the instructor’s approval, SCT 100 may be substituted for up to 6 credits of course work or taken as an additional elective.

CDL Testing and/or AED Testing – A student may transfer in up to 1 credit for CDL testing and/or AED testing. This will be approved by the Diesel Department Supervisor and the Lake Area Tech Registrar.

All optional courses not listed on your current program outline must be approved by your adviser and appropriately identified on the current program semester outline of any Ag option.