

# Diesel Technology • Option for Automotive Technology Graduates

## Semester Course Outline • 2023 – 2024

18 Months (4 Semesters) • Revised: 1/23/23

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
<b>Total</b>		<b>224</b>	<b>11</b>
<p><b>Students may transfer in 6.5 credits of equivalent courses (prior learned) for the following:</b></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
<b>Total</b>		<b>364</b>	<b>13</b>
<p><b>Students may transfer in 5 credits of equivalent courses (prior learned) for the following:</b></p> <p>DT 149 – Hydraulic Brakes .....1 credit                      CSC 100 – Computer Concepts .....1 credit                      Mathematics Course Taken .....3 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.

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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
<b>Total</b>		280	9
<p><b>Students may transfer in 6 credits of equivalent courses (prior learned) for the following:</b>                      DT 238 – Electrical Testing .....3 credits                      Behavioral Science Course Taken .....3 credits                      PSYC 100 – Psychology of Human Relations                      PSYC 101 – General Psychology</p>			

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
<b>Total</b>		407	15
<p><b>Students may transfer in 4 credits of equivalent courses (prior learned) for the following:</b>                      DT 246 – Heating, Ventilation, and Air Conditioning Testing (HVAC) .....1 credit                      Communications Course Taken .....3 credits                      CMST 101 – Fundamentals of Speech (CSS 100 – Career Search Strategies .5 credit)                      COMM 101 – Communications and Career Strategies                      ENGL 101 – Composition (CSS 100 – Career Search Strategies .5 credit)</p>			

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

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■ 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
<b>Total</b>		351	12.5
<p><b>Students may transfer in 6.5 credits of equivalent courses (prior learned) for the following:</b></p> <p>DT 216 – Truck Suspension and Steering.....2 credits</p> <p>DT 246 – Heating, Ventilation, and Air Conditioning Testing (HVAC) .....1.5 credit</p> <p>Social Science Course Taken .....3 credits</p> <p>    ECON 105 – Leadership in the Global Workplace</p> <p>    ECON 201 – Principles of Microeconomics I</p> <p>    ECON 202 – Principles of Macroeconomics II</p> <p>    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.

- 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.