

Diesel Technology • Brandt Holdings Option

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: 68.5



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
DTBH 100	Electrical Systems I	84	3
DTBH 105	Hydraulics I	84	3
DTBH 110	Service Systems and Processes	56	2
DTBH 120	Internship I	300	5
HAZ 100	Hazardous Materials Safety	14	.5
• Selected Communications Course (Choose one) 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)		45	3
Total		583	16.5

First Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
DTBH 125	Electrical Systems II and Service Advisor Core	56	2
DTBH 135	Diesel Engines	112	4
DTBH 140	Internship II	300	5
DTBH 145	Heating, Ventilation, and Air Conditioning (HVAC) Testing	56	2
CSC 100	Computer Concepts	15	1
• Selected Social Science Course (Choose one) ECON 105 – Leadership in the Global Workplace ECON 201 – Principles of Microeconomics I * ECON 202 – Principles of Macroeconomics II * SOC 100 – Introduction to Sociology *		45	3
Total		584	17



Second Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
DTBH 200	Electrical Testing Diagnostics and Electrical Core	84	3
DTBH 205	Power Trains	112	4
DTBH 210	Hydraulics II	56	2
DTBH 220	Internship III	300	5
♦ DTBH 225	Technician Software Internship	120	2
<ul style="list-style-type: none"> Selected Mathematics Course (Choose one) MATH 101 – Intermediate Algebra MATH 103 – Mathematical Reasoning MATH 114 – College Algebra * 		45	3
Total		717	19

Second Year – Spring Semester Ag/Industrial Tractor Option

Course Number	Course Title	Clock Hours	Credits
DTBH 230	Combine/Tractor/Planter Optimizations	56	2
DTBH 235	Hydraulic System Diagnostics and Hydraulic Core	56	2
DTBH 240	Machine Technology Systems	56	2
DTBH 245	Fuel Systems and Engine Emissions	56	2
DTBH 250	Internship IV	300	5
<ul style="list-style-type: none"> Selected Behavioral Science Course (Choose one) PSYC 100 – Psychology of Human Relations PSYC 101 – General Psychology * 		45	3
Total		569	16

Elective Courses With the instructor's approval, SCT 100 – Solar Car Team 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.

- Students will select a course in each of the areas listed to meet general education requirements. Courses marked with an asterisk (*) can be transferred directly to the university system and may be substituted for recommended courses on the outline. Students should speak with an advisor before doing so.

Students who select to take transferable communications course CMST 101 or ENGL 101, must also register for CSS 100 – Career Search Strategies for .5 credit. This curriculum is required for all Lake Area Tech graduates and is included in the COMM 101 course but is separate from the university system.

- ♦ Students completing a summer orientation at Brandt Holdings Dealership can transfer in two credits with appropriate documentation.