

**Associate in Applied Science (AAS)**

# Diesel/Heavy Equipment Technology

The Diesel/Heavy Equipment Technology program prepares students for careers in any industry that utilizes trucks, heavy equipment, vessels or any other industrial equipment utilizing diesel power, hydraulics or other mechanical power transmission devices. Some of the many different areas of graduate employment include trucking firms, heavy equipment dealerships, logging companies, railroads, tug boats, industrial maintenance and sales.

With a strong emphasis on fluid power, LCC's Diesel/Heavy Equipment Technology program is one of few accepted for membership in the National Fluid Power Association. Students may enter the program any quarter and may transfer to pursue a bachelor's degree in Diesel Power at several baccalaureate institutions.

*\*Total credits required to earn this degree: 124-132 with a cumulative grade point average (GPA) of at least 2.0 in the program requirements.*

## Degree Requirements

- **Communications:**  
5 credits – ENGL 110 Industrial Communications recommended.
- **Quantitative/Symbolic Reasoning Skills:**  
5 credits – MATH 106 Industrial Mathematics recommended.
- **Human Relations/ Social Science/Diversity:**  
5 credits – BUS 144 Management of Human Relations:DIV meets all three of these requirements and is recommended.
- **Natural Sciences:**  
5 credits – DHET 240 Fluid Power/Electrical Theory & Design OR TECH 100 Advanced Principles of Technology OR MFG 130 Materials Science OR choose from the Distribution List.
- **Electives:**  
2-10 credits - The following courses meet individual needs: DHET 228, DHET 229, DHET 299, MASP 107, WELD 105, WELD 154, WELD 155, WELD 221, BUS 150, IT 111.

## Program Requirements

DHET 100	Essentials of Mechanics	5
DHET 104	Electrical Systems	15
DHET 105	Vehicle Climate Control	5
DHET 114	Heavy Duty Brakes and Chassis	15
DHET 141	Hydraulics I	4
DHET 142	Hydraulics II	6
DHET 210	Diesel Engine Rebuild	15
DHET 215	Heavy Duty Engine Performance	15
DHET 220	Heavy Duty Power Trains	10
DHET 230	Advanced Shop Practices	5
HLTH 105	First Aid, CPR and Bloodborne Pathogens	1
MFG 100	Foundational Skills for the Trades	3
MFG 105	Industrial Safety	3

Diversity and Distribution Lists are available in the Lower Columbia College Academic Catalog and at [lowercolumbia.edu/catalog](http://lowercolumbia.edu/catalog).

**Students completing this program should acquire the following skills and abilities:**

- Communicate professionally in writing and speaking as appropriate to an industrial technology work environment (GS Communication).
- Apply objective, valid methods of inquiry and problem solving to draw rational, ethical, and coherent conclusions (GS Critical Thinking).
- Apply mathematical information to perform tasks in industrial technology (GS Numeracy/Quantitative Literacy).
- Interact effectively with individuals and groups (GS Interpersonal relations).
- Apply industry standard safety and hazardous material handling guidelines.
- Display work appropriate behavior including positive attitude, timeliness and teamwork.
- Apply knowledge of computer programs to create professional, academic, or business documents following current industry standards.
- Complete tasks accurately, safely and within a given timeframe.
- Demonstrate competency in accurately following service information procedures and documenting work performed.
- Demonstrate the required skills needed to troubleshoot and repair advanced mechanical systems including hydraulic, electrical, air and hydraulic brakes, engine, power transmission, chassis and air conditioning.

**Revised May 2019 (Effective Summer 2019)**

**Planner**

The distribution lists are in the LCC Catalog. If you are online, click on the links below:

**Diversity Course List**

**Distribution List**

Advisor: Ken Ecklund, (360) 442-2741 [kecklund@lowercolumbia.edu](mailto:kecklund@lowercolumbia.edu) - Jim Dillinger, (360) 442-2742, [jdillinger@lowercolumbia.edu](mailto:jdillinger@lowercolumbia.edu)

Entry Quarter		
√	Courses	Crs
	MFG 100 (A)	3
	HLTH 105 (A)	1
	MFG 105 (A)	3
	MATH 106 (A)	5
	<b>Total:</b>	<b>12</b>

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
	DHET 141 (F)	4		DHET 104 (W)	15		DHET 105 (Sp)	5			
	DHET 142 (F)	6		DHET 240 (W)	5		DHET 114 (Sp)	15			
	DHET 100 (F)	5									

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
Total:		15	Total:		20	Total:		20	Total:		

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter			
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	
	DHET 215 (F)	15		DHET 210 (W)	15		DHET 220 (Sp)	10		Electives	10	
	ENGL 110 (A)	5		BUS 144 (A)	5		DHET 230 (Sp)	5				
Total:		20	Total:		20	Total:		15	Total:			10

**Notes:**

Program planning is based on information available at the time of preparation. It is the student's responsibility to meet with their LCC advisor and with an advisor at the college to which they plan to transfer for specific requirements. Consult the LCC catalog for LCC graduation requirements.

Legend:

- A - Course usually offered all quarters.
- F - Course usually offered Fall Quarter.
- W - Course usually offered Winter Quarter.
- Sp - Course usually offered Spring Quarter.
- S - Course usually offered Summer Quarter.

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