

Diesel/Heavy Equipment Certificate

Program Requirements

Catalog Department Overview # (<https://catalog.uaf.edu/academic-departments/diesel-heavy-equipment/>)

Minimum Requirements for Diesel/Heavy Equipment Certificate: 34 credits

Students must earn a C or better in each course.

Credits		
General University Requirements		
Complete the general university requirements. (https://catalog.uaf.edu/certificates/#guncertificatestext)		
Certificate Requirements		
Complete the certificate requirements. (https://catalog.uaf.edu/certificates/#certificaterequirementstext) ¹		
Diesel/Heavy Equipment Program Requirements		
Complete the following:		
DSLT F101	Safety Including Rigging and Lifting	1
DSLT F103	Basic Equipment and Truck Operation	1
DSLT F105	Preventive Maintenance	3
DSLT F107	Basic Electrical Systems	3
DSLT F108	Advanced Electrical Systems	3
DSLT F110 or AUTO F190	Basic Industrial Fabrication Automotive Practicum I	2
DSLT F111	Diesel Emissions	2
DSLT F123	Heavy Duty Braking Systems	3
DSLT F201	Manual Transmissions and Differentials	3
DSLT F202	Heavy Duty Automatic Transmissions	2
DSLT F210 or AUTO F190	Heavy Equipment Fabrication Automotive Practicum I	2
DSLT F212	Hydraulics	3
DSLT F254	Engine	6
Total Credits		34

¹ As part of the certificate requirements, the communication, human relations and computation contents are embedded in the major required courses for this program.

Upon completion of the Diesel/Heavy Equipment Certificate, students are prepared to sit for the ASE Diesel Engine Tests (A9, H2, S2, or T2) through the National Institute for Automotive Service Excellence (ASE).

Roadmaps

Catalog Department Overview # (<https://catalog.uaf.edu/academic-departments/diesel-heavy-equipment/>)

Roadmaps provide suggested semester-by-semester study plans for programs and are based on full-time enrollment, unless otherwise specified.

- This roadmap should be used in conjunction with regular academic advising sessions. All students are encouraged to meet with their advisor or mentor each semester.
- Certain courses and milestones must be completed in the specified semester to ensure on-time graduation.
- Transfer credits may affect the roadmap.
- Requirements, course availability, and sequencing may change.
- Courses marked with (*) are recommended.

First Year

Fall	Credits Spring	Credits
DSLT F101 ^{13,20}	1 DSLT F111 ²⁰	2
DSLT F103 ²⁰	1 DSLT F201 ²⁰	3
DSLT F105 ²⁰	3 DSLT F202 ²⁰	2
DSLT F107 ^{10,20}	3 DSLT F210 or AUTO F190 ^{9,20}	2
DSLT F108 ²⁰	3 DSLT F212 ²⁰	3
DSLT F110 or AUTO F190 ²⁰	2 DSLT F254 ²⁰	6
DSLT F123 ²⁰	3	
16		18

Total Credits 34

Footnote Definitions

General Education Requirements	Degree Requirements	Program & Other Requirements
1—Communication	8—Alaska Native-themed	20—Program Requirement
2—Arts	9—Communication	21—Capstone Requirement
3—Humanities	10—Computation	22—Concentration Course
4—Social Sciences	11—Ethics	23—General Elective
5—Additional Arts, Humanities or Social Sciences	12—Humanities	24—Minor Course
6—Mathematics	13—Human Relations	25—Upper Division
7—Natural Sciences	14—Humanities or Social Sciences	26—Program Elective
	15—Library & Information Research	
	16—Mathematics	
	17—Natural Sciences	
	18—Other	
	19—Social Sciences	

Learning Outcomes

Catalog Department Overview # (<https://catalog.uaf.edu/academic-departments/diesel-heavy-equipment/>)

Learning Outcomes are specific, measurable statements that define the knowledge and skills students will gain by the end of the program.

Graduates of this program will be able to:

- Possess the skills and knowledge to become highly competitive candidates for job openings and promotions within the diesel/heavy equipment maintenance and related fields

- Demonstrate computation skills sufficient for employment as a diesel/heavy equipment mechanic
- Demonstrate writing skills sufficient for employment as a diesel/heavy equipment mechanic
- Demonstrate oral communication skills sufficient for employment and understanding of human relations