

POWER TECHNOLOGY, A.A.S.

Diesel Emphasis

This degree is a vocational training program for men and women interested in securing employment

working with various diesel engine applications such as (but not limited to):

- Charter boats
- Fishing vessels
- Tour buses
- Marine auxiliary systems
- Hydraulic systems
- Transportation vehicles
- Cold storage systems

Fixed Plant Mechanic Emphasis

This degree is a vocational training program for men and women interested in securing employment

working with various stationary machine applications such as (but not limited to):

- Above ground mines
- Underground mines
- Gravel pits and quarries
- Fish plants (flash freezing)
- Fish plants (canneries)
- Sawmills

Juneau

Diesel Emphasis

This degree is a vocational training program for men and women interested in securing employment working with various diesel engine applications such as (but not limited to):

- Charter boats
- Fishing vessels
- Tour buses
- Marine auxiliary systems
- Hydraulic systems
- Transportation vehicles
- Cold storage systems

Program assessment plans and student learning outcomes are posted at the Program Assessment website (<http://www.uas.alaska.edu/provost/assessment.html>).

Requirement	Hours
Minimum Credit Hours	63
Major Requirements	47

Code	Title	Credits
General Education Requirements		
<i>Written Communication Skills</i>		

WRTG S111	Writing Across Contexts	3
Select one of the following:		3

WRTG S211	Writing and the Humanities	
WRTG S212	Writing and the Professions	

Oral Communication Skills

Select one of the following:		3
------------------------------	--	---

COMM S111	Fundamentals of Oral Communication ¹	
COMM S235	Small Group Communication and Team Building ¹	
COMM S237	Interpersonal Communication ¹	
COMM S241	Public Speaking ¹	

Computational Skills

MATH S105	Intermediate Algebra	4
-----------	----------------------	---

Other Skills

Advisor approved GER ²		3-4
-----------------------------------	--	-----

Major Requirements

DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S107	Diesel Fuel Systems	4
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S131	Electrical II	3
DESL S180	AC Power Generation	3
DESL S250	Heavy Duty Brakes and CDL Preparation	2
DESL S255	Heavy Duty Suspension and Alignment	2
DESL S260	Heavy Duty Power Trains	3
DESL S261	Marine Auxiliary Systems	3
DESL S262	Marine Auxiliary Systems Lab	2
DESL S263	Marine Transmissions	3
DESL S291	(Internship)	3
WELD S120	Basic Welding	3
Total Credits		63

¹ Grade C 2.00 or better

² Humanities, mathematics, natural sciences or social sciences course. Course must be at the 100-level or above.

Fixed Plant Mechanic

Requirement	Hours
Mimumum Credit Hours	60
Major Requirements	44

Code	Title	Credits
General Education Requirements		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
Select one of the following:		3
WRTG S211	Writing and the Humanities	
WRTG S212	Writing and the Professions	

Oral Communication Skills		
Select one of the following:		3
COMM S111	Fundamentals of Oral Communication ¹	
COMM S235	Small Group Communication and Team Building ¹	
COMM S237	Interpersonal Communication ¹	
COMM S241	Public Speaking ¹	
Computational Skills		
MATH S105	Intermediate Algebra	4
Other Skills		
Advisor approved GER ²		3-4
<i>Major Requirements</i>		
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S110	Diesel Engines	6
DESL S125	Basic Hydraulics	3
DESL S225	Advanced Hydraulics	3
DESL S260	Heavy Duty Power Trains	3
DESL S261	Marine Auxiliary Systems	3
DESL S262	Marine Auxiliary Systems Lab	2
DESL S263	Marine Transmissions	3
WELD S120	Basic Welding	3
WELD S175	Selected Topics in Advanced Welding	3
Advisor approved electives		13
Total Credits		60

¹ Grade of C 2.00 or higher

² Humanities, mathematics, natural sciences or social sciences course at the 100-level or above

Mine Mechanic

Requirement	Hours
Minimum Credit Hours	61
Major Requirements	45

Code	Title	Credits
General Education Requirements		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
Select one of the following:		3
WRTG S211	Writing and the Humanities	
WRTG S212	Writing and the Professions	
<i>Oral Communication Skills</i>		
Select one of the following:		3
COMM S111	Fundamentals of Oral Communication ¹	
COMM S235	Small Group Communication and Team Building ¹	
COMM S237	Interpersonal Communication ¹	
COMM S241	Public Speaking ¹	
<i>Computational Skills</i>		
MATH S105	Intermediate Algebra	4

Other Skills

Advisor approved GER ²		3-4
Major Requirements		
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S107	Diesel Fuel Systems	4
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S131	Electrical II	3
DESL S180	AC Power Generation	3
DESL S225	Advanced Hydraulics	3
DESL S250	Heavy Duty Brakes and CDL Preparation	2
DESL S255	Heavy Duty Suspension and Alignment	2
DESL S260	Heavy Duty Power Trains	3
WELD S120	Basic Welding	3
WELD S175	Selected Topics in Advanced Welding	3
Advisor approved Power Technology elective		3
Total Credits		61

¹ Grade C 2.00 or better

² Humanities, mathematics, natural sciences or social sciences course. Course must be at the 100-level or above.