

M.S., PETROLEUM ENGINEERING

Admission Requirements

Complete the following admission requirement:

- Complete a B.S. degree in engineering or the natural sciences.

Program Requirements

Minimum Requirements for Petroleum Engineering M.S. Degree: 30-36 credits

Code	Title	Credits
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General University Requirements

Complete the general university requirements. (<https://catalog.uaf.edu/archives/2020-2021/graduate/mastersdegrees/#generaluniversityrequirementstext>)

Master's Degree Requirements

Complete the master's degree requirements. (<https://catalog.uaf.edu/archives/2020-2021/graduate/mastersdegrees/#masterofsciencewithprojecttext>)

Petroleum Engineering Program Requirements

Complete four from the following: 12

PETE F607	Advanced Production Engineering	
PETE F608	Flow Assurance in the Petroleum Industry	
PETE F610	Advanced Reservoir Engineering	
PETE F621	Applied Reservoir Characterization	
PETE F630	Waterflooding	
PETE F645	Petroleum Geology	
PETE F656	Advanced Petroleum Economic Analysis	
PETE F661	Applied Well Testing	
PETE F662	Enhanced Oil Recovery	
PETE F663	Applied Reservoir Simulation	
PETE F665	Advanced Phase Behavior	
PETE F666	Drilling Optimization	
PETE F670	Fluid Flow Through Porous Media	
PETE F680	Horizontal Well Technology	
PETE F683	Natural Gas Processing and Engineering	
PETE F685	Non-Newtonian Fluid Mechanics	
PETE F689	Multiphase Fluid Flow in Pipes	

Options

Complete the requirements for one of the following options: 18-24

Thesis Option	
Non-thesis Option	

Options

THESIS OPTION

Minimum Requirements for Petroleum Engineering M.S. Degree Thesis Option: 30 credits

Code	Title	Credits
PETE F699	Thesis	6
Elective courses ¹		12

Complete the following:

¹ Electives are chosen with approval of graduate advisory committee.

NON-THESIS OPTION

Minimum Requirements for Petroleum Engineering M.S. Degree Non-thesis Option: 36 credits

Code	Title	Credits
PETE F698	Non-thesis Research/Project	6
Electives ²		18

Complete the following:

² Electives are chosen with approval of graduate advisory committee.