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

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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| General University Requirements

Complete the general university requirements.  
(http://catalog.uaf.edu/graduate/mastersdegrees/
#generaluniversityrequirements

Master’s Degree Requirements

Complete the master’s degree requirements.  
(http://catalog.uaf.edu/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

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| Complete the following:
| PETE F699 Thesis                | 6       |
| Elective courses 1              | 12      |

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

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| Complete the following:
| PETE F698 Non-thesis Research/Project | 6       |
| Electives 2                  | 18      |

2 Electives are chosen with approval of graduate advisory committee.