M.S. in Petroleum Engineering Course Requirements

Graduate students with a ***BS in Petroleum Engineering*** from an accredited program may pursue an MS degree at UW using one of these two options.

The requirements for each option are as follows:

1. Plan A: Thesis Research Option

Items	Course Description	Credits
Core Courses	*At least three courses from the following:* PETE 5010 - Transport Phenomena PETE 5020 - Thermodynamics PETE 5060 - Flow through Porous Media PETE 5080 - Interfacial Phenomena PETE 5310 - Fundamentals of Enhanced Oil Recovery	9
Required Course	PETE 5355 - Mathematical Methods	3
Seminar	PETE 5890 - Graduate Seminar	2
Electives	Graduate-approved elective courses (PETE or other), selected by the student with approval of the student's advisor.	12
Plan A	PETE 5960 - Thesis Research	4
	TOTAL	**30**

2. Plan B: Course Work Option

Items	Course Description	Credits
Core Courses	*At least three courses from the following:* PETE 5010 - Transport Phenomena PETE 5020 - Thermodynamics PETE 5060 - Flow through Porous Media PETE 5080 - Interfacial Phenomena PETE 5310 - Fundamentals of Enhanced Oil Recovery	9
Required Course	PETE 5355 - Mathematical Methods	3
Seminar	PETE 5890 - Graduate Seminar	2
Electives	Graduate-approved elective courses (PETE or other), selected by the student with approval of the student's advisor.	14
Plan B	PETE 5100 – Research Report	2
	TOTAL	**30**

Graduate students with a ***BS in Chemical or Mechanical Engineering*** from an accredited program may pursue an MS degree in Petroleum Engineering at UW using one of these two options.

The requirements for each option are as follows:

3. Plan A: Thesis Research Option

Items	Course Description	Credits
Core Courses	*At least four graduate courses from the following:* PETE 5010 - Transport Phenomena PETE 5020 - Thermodynamics PETE 5060 - Flow through Porous Media PETE 5080 - Interfacial Phenomena PETE 5310 - Fundamentals of Enhanced Oil Recovery	12
Required Course	PETE 5355 - Mathematical Methods	3
Required Undergraduate Courses	*These three undergraduate courses:* PETE 3200 - Reservoir Engineering PETE 3715 - Production Engineering PETE 3255 - Basic Drilling Engineering	9
Seminar	PETE 5890 - Graduate Seminar	2
Electives	Graduate-approved elective courses (PETE or other), selected by the student with approval of the student's advisor. GEOL 4190 is to be included in the electives.	10
Plan A	PETE 5960 - Thesis Research	4
	TOTAL	**40**

4. Plan B: Course Work Option

Items	Course Description	Credits
Core Courses	*At least four graduate courses from the following:* PETE 5010 - Transport Phenomena PETE 5020 - Thermodynamics PETE 5060 - Flow through Porous Media PETE 5080 - Interfacial Phenomena PETE 5310 - Fundamentals of Enhanced Oil Recovery	12
Required Course	PETE 5355 - Mathematical Methods	3
Required Undergraduate Courses	*These three undergraduate courses:* PETE 3200 - Reservoir Engineering PETE 3715 - Production Engineering PETE 3255 - Basic Drilling Engineering	9
Seminar	PETE 5890 - Graduate Seminar	2
Electives	Graduate-approved elective courses (PETE or other), selected by the student with approval of the student's advisor. GEOL 4190 is to be included in the electives.	12
Plan B	PETE 5100 – Design Report	2
	TOTAL	**40**

Graduate students with a ***BS in Petroleum Engineering*** from an accredited program may pursue a **Dual Degree Program - MBA/MS degree in Petroleum Engineering** at UW using one of these two options.

The requirements for each option are as follows:

5. Plan A: Thesis Research Option

Items	Course Description	Credits
Core courses	*At least three courses from the following:* PETE 5010 - Transport Phenomena PETE 5020 - Thermodynamics PETE 5060 - Flow through Porous Media PETE 5080 - Interfacial Phenomena PETE 5310 - Fundamentals of Enhanced Oil Recovery	9 3
Required Course	PETE 5355 - Mathematical Methods	
Seminar	PETE 5890 - Graduate Seminar	2
Electives	Graduate-approved elective courses (PETE or other), selected by the student with approval of the student's advisor. MBA graduate-approved elective courses as follows: MBAM 5XXX, MBAM 5301, and MBAM 5305	3 9
Plan A	PETE 5960 - Thesis Research	4
	TOTAL	**30**

6. Plan B: Course Work Option

Items	Course Description	Credits
Core courses	*At least three courses from the following:* PETE 5010 - Transport Phenomena PETE 5020 - Thermodynamics PETE 5060 - Flow through Porous Media PETE 5080 - Interfacial Phenomena PETE 5310 - Fundamentals of Enhanced Oil Recovery	9 3
Required Course	PETE 5355 - Mathematical Methods	
Seminar	PETE 5890 - Graduate Seminar	2
Electives	Graduate-approved elective courses (PETE or other), selected by the student with approval of the student's advisor. MBA graduate-approved elective courses as follows: MBAM 5XXX, MBAM 5301, and MBAM 5305	5 9
Plan B	PETE 5100 – Research Report	2
	TOTAL	**30**

Graduate students with a ***BS in*** **Chemical or Mechanical** ***Engineering*** from an accredited program may pursue a **Dual Degree Program - MBA/MS degree in Petroleum Engineering** at UW using one of these two options.

The requirements for each option are as follows:

7. Plan A: Thesis Research Option

Items	Course Description	Credits
Core courses	*At least four graduate courses from the following:* PETE 5010 - Transport Phenomena PETE 5020 - Thermodynamics PETE 5060 - Flow through Porous Media PETE 5080 - Interfacial Phenomena PETE 5310 - Fundamentals of Enhanced Oil Recovery	12
Required Course	PETE 5355 - Mathematical Methods	3
Required Undergraduate Courses	*These three undergraduate courses:* PETE 3200 - Reservoir Engineering PETE 3715 - Production Engineering PETE 3255 - Basic Drilling Engineering	9
Seminar	PETE 5890 - Graduate Seminar	2
Electives	Graduate-approved elective courses (PETE or other), selected by the student with approval of the student's advisor. GEOL 4190 is to be included in the electives. MBA-approved electives MBAM 5XXX, MBAM 5301, and MBAM 5305	3 9
Plan A	PETE 5960 - Thesis Research	4
	TOTAL	**42**

8. Plan B: Course Work Option

Items	Course Description	Credits
Core courses	*At least four graduate courses from the following:* PETE 5010 - Transport Phenomena PETE 5020 - Thermodynamics PETE 5060 - Flow through Porous Media PETE 5080 - Interfacial Phenomena PETE 5310 - Fundamentals of Enhanced Oil Recovery	12
Required Course	PETE 5355 - Mathematical Methods	3
Required Undergraduate Courses	*These three undergraduate courses:* PETE 3200 - Reservoir Engineering PETE 3715 - Production Engineering PETE 3255 - Basic Drilling Engineering	9
Seminar	PETE 5890 - Graduate Seminar	2
Electives	Graduate-approved elective courses (PETE or other), selected by the student with approval of the student's advisor. GEOL 4190 is to be included in the electives. MBA-approved electives MBAM 5XXX, MBAM 5301, and MBAM 5305	5 9
Plan B	PETE 5100 – Research Report	2
	TOTAL	**42**