

# The University of Tulsa - Petroleum Engineering (410)

Effective Date: May 1, 2013  
Minimum Hours for Graduation: 132

## Freshman Year

## Sophomore Year

## Junior Year

## Senior Year

15 Hours

15 Hours

18 Hours

18 Hours

16 Hours

18 Hours

14 Hours

18 Hours

**Block-I**<sup>1</sup>

**Block-I**<sup>1</sup>

**Block-II**<sup>1</sup>

**Block-II**<sup>1</sup>

**Block-II**<sup>1</sup>

**ENGL 3003**  
PR: ENGL 1033  
JR. STANDING

**PE 3041**  
**Drilling Lab**  
PR: PE 3043

**Block-II**<sup>1</sup>

**ENGL 1033**

**MATH 2024**  
**Calculus II**  
PR: MATH 2014  
\*

**MATH 2073**  
**Calculus III**  
PR: MATH 2024

**MATH 3073**  
**Differential Equations**  
PR: MATH 2024

**GEOL 3153**  
**Sedimentary Processes**  
PR: GEOL 1014  
JR STANDING

**Tech Elective**<sup>2</sup>

**PE 3133 OR 3233**  
Nat. Gas Eng,  
Reservoir or Production  
3133 PR: ES 3053, PE 3023  
3233 PR: PE 3073

**GEOL 4063**  
**Petroleum Geology**  
PR: GEOL 1014, GEOL  
3153, SR STANDING

**MATH 2014**  
**Calculus I**  
\*

**MATH 2020**  
**Calc Quiz II**  
CR: MATH 2024

**PHYS 2063**  
**Physics II**  
PR: MATH 2024  
PHYS 2053

**ES 3003**  
**Fluid Mechanics**  
CR: ES 3053  
PR: MATH 2073,  
PHYS 2053

**ES 3073**  
**Heat Transfer**  
CR: ES 3003  
MATH 3073

**Tech Elective**<sup>2</sup>

**PE 4053** †  
**Formation Evaluation**  
PR: PE 2113, 2123,  
GEOL 3153  
CR: PE 4050

**PE ELEC**  
PR: SR Standing or  
INSTRUCTOR CONSENT

**MATH 2010**  
**Calc Quiz I**  
CR: MATH 2014

**PHYS 2051**  
**Physics I Lab**  
CR PHYS 2053  
PR: MATH 2014

**STAT 4813**  
**Statistics**  
PR: MATH 2024

**ES 3023**  
**Mechanics of Materials**  
PR: ES 2013,  
MATH 2073

**PE 2101**  
**Rock & Fluid  
Prop. Lab**  
CR: PE 2113, PE 2123

**PE 3003** †  
**Petroleum Economics**  
PR: JR Standing  
CR: PE 3000

**PE 4063** †  
**Well Completions**  
PR: PE 3013, PE 3023,  
PE 3043 CR: PE 4060

**PE 4043** †  
**Drilling Eng. II**  
PR: PE 3013, 3043  
CR: PE 4040

**CHEM 1011**  
**Gen Chem Lab I**  
CR: CHEM 1013

**PHYS 2053**  
**Physics I**  
PR: MATH 2014  
\*

**ES 3053**  
**Thermodynamics**  
CR: MATH 2073  
PR: PHYS 2053

**PE 2113**  
**Rock Properties**  
CR: PHYS 2063  
PR: GEOL 1014, MATH 2024  
PHYS 2051, PHYS 2053

**PE 3013**  
**Computer Appl. for PE**  
PR: PE 2113, PE 2123  
CR: PE 3023, ES 3003

**PE 3043**  
**Drilling Eng. I**  
PR: MATH 3073,  
ES 3003, ES 3023

**PE 4071**  
**Production Eng. Lab**  
PR: PE 3073

**PE 4113** †  
**Reservoir Eng. II**  
PR: PE 3013, 3023  
CR: PE 4110

**CHEM 1013**  
**General Chemistry**  
\*

**GEOL 1014**  
**Physical Geology**  
\*

**ES 2013**  
**Statics**  
PR: PHYS 2053

**PE 2123**  
**Fluid Properties**  
PR: CHEM 1013,  
CHEM 1011, MATH 2024

**PE 3023**  
**Reservoir Eng. I**  
PR: PE 2113, PE 2123  
MATH 3073

**PE 3073**  
**Production Eng. I**  
PR: PE 3023  
ES 3003

**PE 4073** †  
**Production Eng. II**  
PR: PE 3013, 3073  
CR: PE 4070

**PE 4983**  
**Capstone Design**  
PR: SR Standing, LAST  
SEMESTER OR  
INSTRUCTOR  
CONSENT

**PE 1001**  
**Intro to PE**  
\*

**GEOL 1010**  
**Physical Geology  
Lab**

\*Within the first three semesters, PE majors must earn a minimum 2.75 GPA in these 6 foundation courses.

Please note: In order to graduate with a PE degree, students must complete the PE major courses with a GPA of 2.5 or higher as well as an overall GPA of 2.0 or higher.

\*\*All pre/co-requisites must be taken as noted in the current Undergraduate Bulletin due to Accreditation Policies  
(-CR=Co-Requisite and PR=Pre-Requisite)

†Underlined PE courses above are only offered either Fall or Spring semester each year. Please pay attention to pre/co-requisites.  
PLEASE NOTE: There are required co-requisite quiz sections listed for each of these courses.

<sup>1</sup> Tulsa Curriculum courses may be taken in any order. Courses must be taken from approved block courses published each semester. Credit for one Block I and one Block II may be obtained for two foreign language courses in the same language. No more than 2 courses from a single department.

<sup>2</sup> Technical and Petroleum Electives must be approved by PE Department.

Tulsa Curriculum  
Courses

Math, Basic  
Sciences, ES

Major courses

Name: \_\_\_\_\_

I. D. #: \_\_\_\_\_

**TULSA CURRICULUM (H & SS)**

**PE PROFESSIONAL COURSES**

**MATHEMATICS**

Course	CR	Grade	Remarks
MATH 2014	4	___	_____
MATH 2010	0	___	_____
MATH 2024	4	___	_____
MATH 2020	0	___	_____
MATH 2073	3	___	_____
MATH 3073	3	___	_____
STAT 4813	3	___	_____

Total: 17 Cr Hrs

**BASIC SCIENCES**

Course	CR	Grade	Remarks
CHEM 1011	1	___	_____
CHEM 1013	3	___	_____
PHYS 2051	1	___	_____
PHYS 2053	3	___	_____
PHYS 2063	3	___	_____
GEOL 1014	4	___	_____
GEOL 1010	0	___	_____
GEOL 3153	3	___	_____
GEOL 4063	3	___	_____

Total: 21 Cr Hrs

**Additional Major/Minor Info**

Primary: \_\_\_\_\_

Secondary: \_\_\_\_\_

Minor: \_\_\_\_\_

Comments/Other Classes that do not apply: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Block	Course	CR	Grade	Remarks
I	_____	___	___	_____
I	_____	___	___	_____
II	_____	___	___	_____
II	_____	___	___	_____
II	_____	___	___	_____
II	_____	___	___	_____

Total: 18 Cr Hrs.

**OTHER**

Course	CR	Grade	Remarks
ENGL 1033	3	___	_____
ENGL 3003	3	___	_____
PE 1001	1	___	_____

Total: 7 Cr. Hrs

**ENGINEERING SCIENCE**

Course	ES	ED	CR	Grade	Remarks
ES 2013	3	0	3	___	_____
ES 3003	2	1	3	___	_____
ES 3023	2.5	.5	3	___	_____
ES 3053	2	1	3	___	_____
ES 3073	2	1	3	___	_____

Total: 11.5 3.5 15 Cr Hrs.

Course	ES	ED	CR	Grade	Remarks
PE 2101	.5	.5	1	___	_____
PE 2113	2.5	.5	3	___	_____
PE 2123	2.5	.5	3	___	_____
PE 3003	1.5	1.5	3	___	_____
PE 3013	2	1	3	___	_____
PE 3023	2	1	3	___	_____
PE 3041	.5	.5	1	___	_____
PE 3043	1	2	3	___	_____
PE 3073	1	2	3	___	_____
PE 3133	1	2	3	___	_____

or

PE 3233	1	2	3	___	_____
PE 4043	1	2	3	___	_____
PE 4053	2	1	3	___	_____
PE 4063	1	2	3	___	_____
PE 4071	.5	.5	1	___	_____
PE 4073	1.5	1.5	3	___	_____
PE 4113	1	2	3	___	_____
PE 4983	0	3	3	___	_____
<sup>2</sup> TECH _____	3	0	3	___	_____
<sup>2</sup> TECH _____	3	0	3	___	_____
<sup>2</sup> PE _____	1	2	3	___	_____

Total: 28.5 25.5 54 Cr. Hrs.

Math & Basic Sciences	38 cr hrs
Tulsa Curriculum (H & SS)	18 cr hrs
Other	7 cr hrs
Engineering Sciences	39 cr hrs
Engineering Design	30 cr hrs
<b>Total</b>	<b>132 cr hrs</b>

<sup>1</sup> The required courses shown meet ABET requirements