

The University of Tulsa - Petroleum Engineering (410)

Effective Date: May 1, 2013

Minimum Hours for Graduation: 142

Chemical Engineering Option

Senior Year

Freshman Year

Sophomore Year

Junior Year

15 Hours

18 Hours

18 Hours

18 Hours

18 Hours

17 Hours

19 Hours

19 Hours

Block-I ¹

Block-I ¹

Block-II ¹

Block-II ¹

GEOL 3153
Sedimentary Processes
PR: GEOL 1014
JR STANDING

ENGL 3003
PR: ENGL 1033
JR. STANDING

CHE 4063
Chemical Reactor Design
PR: ChE 3084

Block-II ¹

ENGL 1033

CHEM 1023
Gen Chemistry II
PR: CHEM 1011,
CHEM 1013

MATH 2073
Calculus III
PR: MATH 2024

MATH 3073
Differential Equations
PR: MATH 2024

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

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

CHE 4103
Process Component Design
PR: ChE 3084

Block-II ¹

MATH 2014
Calculus I
*

MATH 2024
Calculus II
PR: MATH 2014
*

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

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

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 2010
Calc Quiz I
CR: MATH 2014

MATH 2020
Calc Quiz II
CR: MATH 2024

STAT 4813
Statistics
PR: MATH 2024

ChE 2003
Principles of ChE
CR: MATH 2024, ES 3053
PR: CHEM 1011,
CHEM 1013, CHEM 1023

CHE 3063
Equilibrium Thermo
PR: ES 3053,
CHE 2003

PE 3043
Drilling Engineering I
PR: MATH 3073,
ES 3003, ES 3023

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

PE 3041
Drilling Lab
PR: PE 3043

CHEM 1011
Gen Chem Lab I
CR: CHEM 1013

PHYS 2051
Physics I Lab
CR PHYS 2053
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 3073
Production Eng. I
PR: PE 3023
ES 3003

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 1013
General Chemistry
*

PHYS 2053
Physics I
PR: MATH 2014
*

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

CHE 3084
Mass Transfer
PR: ES 3073, ChE 2003,
ChE 3063

PE 4071
Production Eng. Lab
PR: PE 3073

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

PE 1001
Intro to PE
*

GEOL 1014
Physical Geology
*

*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.

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

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

GEOL 1010
Physical Geology
Lab

¹ 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.

**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.

² Technical and Petroleum Electives must be approved by PE Department.

Tulsa Curriculum Courses

Math, Basic Sciences, ES

Major courses

Name: _____
 I. D. #: _____

Petroleum Engineering (410)
Chemical Engineering Option
 Effective Date: May 1, 2013
 Minimum Hours for Graduation: 142

TULSA CURRICULUM (H & SS)

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

Math & Basic Sciences	41 cr hrs
Tulsa Curriculum (H & SS)	18 cr hrs
Other	7 cr hrs
Engineering Sciences	41 cr hrs
Engineering Design	36 cr hrs
Total	143-146 cr hrs

1 The required courses shown meet ABET requirements

Comments/Other Classes that do not apply:

Additional Major/Minor Info

Primary: _____

Secondary: _____

Minor: _____

PE PROFESSIONAL COURSES

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	___	_____

Total: 21.5 23.5 45 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.

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	___	_____
CHEM 1023	3	___	_____
PHYS 2051	1	___	_____
PHYS 2053	3	___	_____
PHYS 2063	3	___	_____
GEOL 1014	4	___	_____
GEOL 1010	0	___	_____
GEOL 3153	3	___	_____
GEOL 4063	3	___	_____

Total: 24 Cr Hrs

CHEMICAL ENGINEERING MINOR

Course	CR	Grade	Remarks		
ChE 2003	2	1	3	___	_____
ChE 3084	2	2	4	___	_____
ChE 4063	1	2	3	___	_____
ChE 4103	1	2	3	___	_____
ChE 3063	2	1	3	___	_____

Total: 8 8 16 Cr Hrs