The University of Tulsa - Petroleum Engineering (410)

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

Geosciences Engineering Option

Freshman Year

15 Hours — Block-I [1]

- ENGL 1033
- **MATH 2014** Calculus I *
- **MATH 2010** Calc Quiz I, CR: MATH 2014
- **CHEM 1011** Gen Chem Lab I, CR: CHEM 1013
- **CHEM 1013** General Chemistry *
- **PE 1001** Intro to PE *

15 Hours — Block-I [1]

- **MATH 2024** Calculus II, PR: MATH 2014 *
- **MATH 2020** Calc Quiz II, CR: MATH 2024
- **PHYS 2051** Physics I Lab, CR PHYS 2053, PR: MATH 2014
- **PHYS 2053** Physics I, PR: MATH 2014 *
- **GEOL 1014** Physical Geology *
- **GEOL 1010** Physical Geology Lab

Sophomore Year

18 Hours — Block-II [1]

- **MATH 2073** Calculus III, PR: MATH 2024
- **PHYS 2063** Physics II, PR: MATH 2024, PHYS 2053
- **GPHY 2503** Physics of the Earth, PR: GEOL 1014, MATH 2014
- **ES 3053** Thermodynamics, CR: MATH 2073, PR: PHYS 2053
- **ES 2013** Statics, PR: PHYS 2053

18 Hours

- **ES 3073** Heat Transfer, CR: ES 3003, MATH 3073
- **MATH 3073** Differential Equations, PR: MATH 2024
- **ES 3003** Fluid Mechanics, CR:ES 3053, PR: MATH 2073. PHYS 2053
- **ES 3023** Mechanics of Materials, PR: ES 2013, MATH 2073
- **PE 2113** Rock Properties, CR: PHYS 2063, PR: GEOL 1014,MATH 2024, PHYS 2051, PHYS 2053
- **PE 2123** Fluid Properties, PR: CHEM 1013, CHEM 1011, MATH 2024

Junior Year

16 Hours — Block-II [1]

- **GEOL 3153** Sedimentary Processes, PR: GEOL 1014, JR STANDING
- **GEOL Elective** GEOL 3063 PR: GEOL 2143or Perm of Instructor OR GPHY 4003 PR: Math 2024, PHYS 2063 & SR Standing
- **PE 2101** Rock & Fluid Prop. Lab, CR: PE 2113, PE 2123
- **PE 3013** Computer Appl.for PE, PR: PE 2113, PE 2123, CR: PE 3023, ES 3003
- **PE 3023** Reservoir Eng. I, PR: PE 2113, PE 2123, MATH 3073

18 Hours — Block-II [1]

- ENGL 3003, PR: ENGL 1033, JR. STANDING
- **STAT 4813** Statistics, PR: MATH 2014
- ***PE 3003*** † Petroleum Economics, PR: JR Standing, CR: PE 3000
- **PE 3043** Drilling Engineering I, PR: MATH 3073, ES 3003, ES 3023
- **PE 3073** Production Eng. I, PR: PE 3023, ES 3003

Senior Year

17 Hours — Block-II [1]

- **PE 3041** Drilling Lab, PR: PE 3043
- **PE 3133 OR 3233** Nat. Gas Eng, Reservoir or Production; 3133 PR: ES 3053, PE 3023; 3233 PR: PE 3073
- ***PE 4053*** † Formation Evaluation, PR:PE 2113, 2123, GEOL 3153 CR:PE 4050
- ***PE 4063*** † Well Completions, PR: PE 3013, PE 3023, PE 3043 CR: PE 4060
- **PE 4071** Production Eng. Lab, PR: PE 3073
- ***PE 4073*** † Production Eng. II, PR: PE 3013. 3073, CR: PE 4070

15 Hours

- **GEOL 4063** Petroleum Geology, PR: GEOL 1014, GEOL 3153 & SR STANDING
- **PE ELEC** [2], PR: SR Standing or INSTRUCTOR CONSENT
- ***PE 4043*** † Drilling Eng. II, PR: PE 3013, 3043, CR: PE 4040
- **PE 4113** Reservoir Eng. II, PR: PE 3013, 3023
- **PE 4983** Capstone Design, PR: SR Standing, LAST SEMESTER & INSTRUCTOR CONSENT
- ***PE 4113*** † Reservoir Eng. II, PR: PE 3013, 3023, CR: PE 4110

[1] Tulsa Curriculum courses may be taken in any order. Courses must be take 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.

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

***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.

Tulsa Curriculum Courses | Math, Basic Sciences, ES | Major courses

Name:_____
I. D. #:_____

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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

GEOSCIENCES MINOR

Course	CR	Grade	Remarks
GPHY 2503	3	___	_____
GEOL 3063 or GPHY 4003	3	___	_____

Total: 12 Cr Hrs

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: 10 Cr. Hrs

1	Math & Basic Sciences	44 cr hrs
	Tulsa Curriculum (H & SS)	18 cr hrs
	Other	7 cr hrs
	Engineering Sciences	34 cr hrs
	Engineering Design	29 cr hrs
	Total	132 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	___	_____
PE _____	1	2	3	___	_____

Total: 22.5 25.5 48 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: 20.5 4.5 25 Cr Hrs.