The University of Tulsa - Chemical Engineering (402)

Materials Option

Effective Date: May 1, 2012
Minimum Hours for Graduation: 131

Freshman Year

15 Hours

- BLOCK-I [1]
- ENGL 1033
- MATH 2014 — CR: MATH 2010
- CHEM 1013
- CHEM 1011 — CR: CHEM 1013
- CHE 1001

15 Hours

- MATH 2024 — CR: MATH 2020; PR: MATH 2014
- CHEM 1023 — PR: CHEM 1013; CHEM 1011
- CHEM 1021 — CR: CHEM 1023
- PHYS 2053 — CR:MATH 2024
- PHYS 2051 — CR: PHYS 2053
- CHE 1013 — PR: CHE 1001; CR: MATH 2014

Sophomore Year

17 Hours

- BLOCK-II [1]
- MATH 2073 — PR:MATH 2024
- PHYS 2063 — PR: PHYS 2053; CR:MATH 2073
- PHYS 2061 — CR: PHYS 2063
- CHEM 3013 — PR: CHEM 1023
- CHEM 3011 — CR: CHEM 3013
- ES 3053 — PR: PHYS 2053; PR: CHEM 1013; CR: MATH 2073

18 Hours

- BLOCK-I [1]
- BLOCK-II [1]
- MATH 3073 — PR:MATH 2024
- Materials Sequence Eng. Science [5]
- CHE 2003 — PR: CHEM 1023, CHE 1001 and 1013; CR: MATH 2024& ES 3053
- ES 3003 — PR: PHYS 2053; PR: MATH 2073; CR: ES 3053

Junior Year

18 Hours

- BLOCK-II [1]
- BLOCK-II [1]
- ENGL 3003 — PR: ENGL 1033; JR. STANDING
- CHE 3063 — PR: ES 3053; PR: CHE 2003
- ES 3073 — CR: ES 3003; CR: MATH 3073
- CHEM 4093 or CHEM 4193 — PR: CHEM 3033; PR: CHEM 3013

17 Hours

- CHE 4063 — CR:CHE 3084
- CHE 4113 — CR: CHE 3084
- CHE 3084 — PR: CHE 3063; CHE 2003; CR: CHE 4113
- EE 2003 — PR: PHYS 2063; CR: MATH 3073
- CHEM 4023 — CR: PHYS 2063; PR:CHE 3063
- CHEM 4021 — PR: CHE 3063; CR: CHEM 4023

Senior Year

15/16 Hours

- CHE 4103 — PR:CHE 3084
- CHE 4003 — PR: ES 3003; PR: ES 3073
- 4000 Level Eng Course [3]
- Materials Sequence Core [5]
- CHE 4123 — PR: SR Standing Or Permission of Instructor

15/16 Hours

- GEN ELEC. 3 [2]
- MATH ELEC.
- Materials Sequence Adv. Chemistry [4,5]
- CHE 4083 — PR:ENGL 3003; PR: CHE 4103
- CHE 4013 — PR:CHE 4063; CR:CHE 4113; SR. STANDING

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[1] Tulsa Curriculum Courses may be taken in any order. No more than 2 courses from a single department. Courses must be chosen from approved block courses published each semester. These courses must satisfy ABET requirements.

[2] STAT 4813, MATH 4123, MATH 4133, MATH 4143 MATH 4213, MATH 4503, or CS 4153

[3] Any 3 credit 4000 level Engineering course or CS 4333, CS 5463, CS 5483, CS 5493, CS 5863

[4] Chosen from CHEM 3021 and CHEM 3023, CHEM 4021 and CHEM 4023, CHEM 4131 and CHEM 4133, CHEM 4081 and CHEM 4083, CHEM 4101 and CHEM 4043, CHEM 4093 and CHEM 4091

*All pre/co-requisites must be taken as noted in the current Undergraduate Bulletin due to Accreditation Policies.
** Math 2014 & Math 2024 require enrollment in corresponding quiz sections
*** Any 5000 level class will require additional signatures to get enrolled into

[5] Two Materials Sequences (choose A or B) are available as:
Sequence A: Eng. Science – ES 2013, Core - ME 3034, Adv. Chemistry – chosen from note 4 without lab
Sequence B: Eng. Science – ES 2013 or ES 3063, Core – Phys 4053, Adv. Chemistry – chosen from note 4 with lab

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

Additional Major/Minor Info

Primary:_____

Secondary:_____

Minor:_____

Name:_____
I. D. #:_____

Chemical Engineering (Materials Option) (402)
Effective Date: May 1, 2012
Minimum Hours for Graduation:131

MATHEMATICS

Course	CR	Grade	Remarks
MATH 2014	4	____	_____
MATH 2024	4	____	_____
MATH 2073	3	____	_____
MATH 3073	3	____	_____
2 _____ ___	3	____	_____

Total: 17 Cr Hrs

BASIC SCIENCES

Course	CR	Grade	Remarks
PHYS 2051	1	___	_____
PHYS 2053	3	___	_____
PHYS 2061	1	___	_____
PHYS 2063	3	___	_____
CHEM 1011	1	___	_____
CHEM 1013	3	___	_____
CHEM 1021	1	___	_____
CHEM 1023	3	___	_____

Total: 16 Cr Hrs

ADVANCED CHEMISTRY

Course	CR	Grade	Remarks
CHEM 3011	1	_____	_____
CHEM 3013	3	_____	_____
CHEM 4021	1	_____	_____
CHEM 4023	3	_____	_____
CHEM 4083	3	_____	_____
CHEM 4081	1	_____	_____
CHEM 4093	3	_____	_____

Total: 15 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	___	_____

Total: 6 Cr Hrs

GENERAL ELECTIVE

Course	CR	Grade	Remarks
_____	__	___	_____

Total: 3 Cr Hrs

*

Math & Basic Sciences	33 cr hrs
Tulsa Curriculum (H & SS)	18 cr hrs
Advanced Chemistry	15 cr hrs
Other	6 cr hrs
General Elective	3 cr hrs
ChE Courses	50 cr hrs
Engineering Science	6 cr hrs
Total:	131 cr hrs

* The required courses shown meet ABET requirements. See other side for additional notations.

CHEM. ENG. PROFESSIONAL COURSES

Course	ES	ED	CR	Grade	Remarks
ChE 1001	1	0	1	_____	_____
ChE 1013	2	1	3	_____	_____
ChE 2003	2	1	3	_____	_____
ChE 3063	2	1	3	_____	_____
ChE 3084	2	2	4	_____	_____
ChE 4003	2	1	3	_____	_____
ChE 4013	2	1	3	_____	_____
ChE 4063	1	2	3	_____	_____
ChE 4083	0	3	3	_____	_____
ChE 4103	1	2	3	_____	_____
ChE 4113	1	2	3	_____	_____
ChE 4123	1	2	3	_____	_____
3 ___ ____	2		3	____	____
ES 3003	2	1	3		
ES 3053	2	1	3		
ES 3073	2	1	3		

Total: 26 21 50 Cr Hrs - minimum

ENGINEERING SCIENCE

Course	ES	ED	CR	Grade	Remarks
EE 2003	3	0	__	___	_____

Total: 6 0 3 Cr. Hrs - minimum

MATERIALS SEQUENCE: Choose Option A or B

	Course	CR	Grade	Remarks
A)	ES 2013	_____	_____	_____
	Adv Chem Elect 3hrs	_____	_____	_____
	ME 3034	_____	_____	_____
B)	ES 2013 or ES 3063	_____	_____	_____
	Adv Chem Elect 4 hrs	_____	_____	_____
	Phys 4053	_____	_____	_____

Comments/Other Classes taken that do not apply:_____
_____
_____
_____
_____