

Bachelor of Engineering in Petroleum Engineering (SWPU) to Bachelor of Science in Petroleum Engineering (TU) With Optional Master of Engineering in Petroleum Engineering (TU)

**Total Undergraduate Credit Hours at SWPU (66) + Total Undergraduate Credit Hours at University of Tulsa (71)
= 137 Undergraduate Credit Hours
+ Total Graduate Credit Hours for Optional Masters at University of Tulsa (30)**

TU Catalog Year: 2021-2022

Modalities Available (On-Campus, Online, Blended): On-Campus

University Campus Location: University of Tulsa, 800 S Tucker Dr, Tulsa, OK 74104

Note to Students: The following 66 credits are required to be completed prior to entering The University of Tulsa (TU) to guarantee students may graduate in 2 years with their undergraduate degree. If an applicant does not have all the math and science coursework at the time of entrance, TU cannot guarantee the student will be able to graduate with a bachelors in 2 years and may need to be here additional time due to prerequisites needed for our degree plans. If a student is deficient in a general education course, it may still be possible to graduate in 2 years with a bachelor's degree, but the student may need to take extra courses in summer to finish on time.

YEAR ONE & TWO – SOUTHWEST PETROLEUM UNIVERSITY		
SWPU COURSE	TU EQUIVALENTS	CREDIT HRS
BASIS OF GEOLOGY	GEOL 1014	4
ADVANCED MATHEMATICS (I – 1)	MATH 2014 + MATH 2024	8
ADVANCED MATHEMETICS (I – 2)	MATH 2073 + MATH 3073	6
PROBABILITY AND STATISTICS II	STAT 4813	3
COLLEGE PHYSICS (I – 1) + EXPERIMENTS OF PHYSICS	PHYS 2053 + PHYS 2051	4
COLLEGE PHYSICS (I – 2)	PHYS 2063	3
COLLEGE CHEMISTRY (II)	CHEM 1013 + CHEM 1011	4
ENGINEERING FLUID MECHANICS II	ES 3003	3
ENGINEERING MECHANICS I	ES 2013 + ES 3023	6
PETROPHYSICS	PE 2123 + PE 2113	6
COMPREHENSIVE GEOLOGY PRACTICE	PE 1001	1
BLOCK ONE EQUIVALENT – SEE ATTACHED LIST	BLKA 1003	3
BLOCK ONE EQUIVALENT – SEE ATTACHED LIST	BLKA 1003	3
BLOCK TWO EQUIVALENT – SEE ATTACHED LIST	BLKB 1003	3
BLOCK TWO EQUIVALENT – SEE ATTACHED LIST	BLKB 1003	3
BLOCK TWO EQUIVALENT – SEE ATTACHED LIST	BLKB 1003	3
BLOCK TWO EQUIVALENT – SEE ATTACHED LIST	BLKB 1003	3
TOTAL HOURS		66

SWPU BLOCK EQUIVALENTS

BLOCK ONE (TAKE 2)	BLOCK TWO (TAKE 4)
ANALYSIS & APPRECIATION OF CHINESE FOLK MUSIC	CONTEMPORARY WORLD ECONOMY AND POLITICS
APPRECIATION OF ANCIENT CHINESE NOVELS	CULTURAL ANTHROPOLOGY
APPRECIATION OF FAMOUS CHINESE ESSAYS	CROSS-STRAITS RELATIONS & TAIWAN ISSUES
APPRECIATION OF FAMOUS FOREIGN LITERATURE WORKS	DEMOCRACY AND LAW
APPRECIATION OF TANG AND SONG CI POETRY	ECONOMIC FUNDAMENTAL
CALLIGRAPHY APPRECIATION	FOUNDATION FOR ECONOMICS
FOREIGN FILM & TELEVISION CELEBRATED WORK APPRECIATION	GLIMPSE OF BRITISH AND AMERICAN CULTURES
FOREIGN MUSIC APPRECIATION	HISTORY OF WESTERN POLITICAL THOUGHTS
MUSIC THEORY AND SIGHT SEEING	INTERNATIONAL LAW
REVIEW OF MODERN LITERATURE MASTERS	INTRODUCTION TO CHINESE CIVILIZATION
SELECTIVE READING OF ENGLISH LITERATURE	INTRODUCTION TO RUSSIAN CULTURE
SKETCH	INTRODUCTION TO SOCIOLOGY
SPEECH AND DEBATE	MACROECONOMICS
	MICROECONOMICS
	OUTLINE OF MODERN CHINESE HISTORY
	PHILOSOPHY AND THE ART OF LIVING
	POLITICAL SOCIOLOGY
	THE ENVIRONMENTAL LAW
	THE PETROLEUM POLITICS
	THOUGHTS ON WESTERN PHILOSOPHY
	RATIONAL SPIRIT OF QIN

Any class taken at SWPU not listed in the tables above will need a course description and syllabus sent to transfer-evals@utulsa.edu for evaluation by the department.

Transfer of credit is not guaranteed for courses outside this agreement.

YEAR THREE – UNIVERSITY OF TULSA – UNDERGRADUATE LEVEL					
Semester Five (SUMMER)		Semester Six (FALL)		Semester Seven (SPRING)	
TU Course	Hrs.	TU Course	Hrs.	TU Course	Hrs.
ENGL 1004 ¹	4	ENGL 1033	3	ENGL 3003	3
		FYE 1001	1	TECH ELECTIVE @ 5000 level ^{2 & 3}	3
		GEOL 3153	3	PE 3003 + PE 3000	3
		ES 3053	3	PE 3043	3
		PE 2101	1	PE 3073	3
		PE 3013	3	ES 3073	3
		PE 3023	3		
Semester Credit Hours at TU:	4	Semester Credit Hours at TU:	17	Semester Credit Hours at TU:	18

YEAR FOUR – UNIVERSITY OF TULSA – UNDERGRADUATE LEVEL			
Semester Eight (FALL)		Semester Nine (SPRING)	
TU Course	Credit Hours	TU Course	Credit Hours
PE 3041	1	PE 4513	3
PE 4053 + PE 4050	3	PE 5033 ⁴	3
PE 4063 + PE 4060	3	PE 4043 + PE 4040	3
PE 4071	1	PE 4113 + PE 4110	3
PE 4073 + PE 4070	3	PE 4983	3
PE 3323 OR PE 4183	3		
TECH ELECTIVE @ 5000 level ^{2 & 3}	3		
Semester Credit Hours at TU:	17	Semester Credit Hours at TU:	15

- Enrollment in ENGL 1004 can be waived if student provides proof of English proficiency sufficient to meet the requirements for unconditional admission to TU. The evidence of English proficiency will be the same as required for other international students admitted to similar undergraduate programs at TU. Methods of meeting the university English Proficiency requirement are listed at <https://admission.utulsa.edu/international-admission/english-proficiency-requirement/>
- Only one Technical Elective may be a PE course.
- Fulfills undergraduate technical elective requirement and can possibly double count towards future graduate program requirements in Master of Engineering degree if taken at 5000 level.
 - If student is not choosing to pursue optional master's after completion of the undergraduate degree, any upper level technical elective approved by the Petroleum Engineering department may be applied here.
- Recommended to fulfill undergraduate major elective requirement and can possible double count towards future graduate program requirements in Master of Engineering degree.
 - If student is not choosing to pursue optional master's after completion of the undergraduate degree, any upper level undergraduate PE course may be taken here.

Additional TU Undergraduate Program Information:

- All external courses must have the international grade equivalent of a C or higher to transfer into TU. Inclusion of an equivalency on this agreement does not guarantee transfer eligibility if an individual course grade does not meet the minimum grade requirement.
- To graduate from TU with a bachelor's degree in petroleum engineering, students must complete the PE major courses with a GPA of 2.0 or higher as well as an overall GPA of 2.0 or higher during classes at TU.
- Technical and Petroleum Electives must be approved by the McDougal School of Petroleum Engineering.
- The terms of this agreement outline requirements for the general Petroleum Engineering program at TU. Election of a sub-specialty (Chemical Engineering, Geosciences, Mechanical Engineering, or Midstream Option) may require additional/different courses from those listed above, necessitating at least 1 additional semester for completion.
- If an applicant does not have all the math and science coursework at the time of entrance, TU cannot guarantee the student will be able to graduate in 2 years and may need to be here additional time due to prerequisites needed for our degree plans. If a student is deficient in a general education course, it may still be possible to graduate in 2 years, but the student may need to take extra courses in summer to finish on time.

OPTIONAL MASTER OF ENGINEERING YEAR

After successfully completing B.S. in Petroleum Engineering with GPA of 3.0 or higher in TU coursework, students are eligible to complete a non-thesis Master of Engineering in Petroleum Engineering. Interested students must apply for admission to The University of Tulsa Graduate School no earlier than the first semester of their senior year at TU.

Participation in the undergraduate portion of this articulation agreement does not guarantee admission to the graduate level.

Information about the graduate application process can be found at <https://graduate.utulsa.edu/admission/deadlines-requirements/>. Students completing the undergraduate portion of this articulation agreement qualify to have their application fee and English proficiency documentation waived for their graduate application.

Students may petition to have up to 9 hours of 5000-level coursework previously completed as part of undergraduate degree requirements double count towards graduate program requirements. If approved, this is a suggested breakdown of additional degree requirements, to meet the minimum 30 credit hours for a Master of Engineering.

YEAR FIVE – UNIVERSITY OF TULSA – GRADUATE LEVEL			
Semester Ten (FALL)		Semester Eleven (SPRING)	
TU Course	HRS	TU Course	HRS
PE 7220	0	PE 7220	0
CORE COURSE (PE 7013, PE 7023 or PE 7063)	3	CORE COURSE (PE 7013, PE 7023 or PE 7063)	3
CORE COURSE (PE 7013, PE 7023 or PE 7063)	3	PE 7913: Master's Project (MEN students) ¹	3
GRADUATE ELECTIVE	3	GRADUATE ELECTIVE	3
OUTSIDE MAJOR DEPT GRAD COURSE	3		
Semester Credit Hours at TU:	12	Semester Credit Hours at TU:	9

1. Master's Project is recommended but not required for students completing the Master of Engineering degree. Non-thesis MEN students may choose to replace this course with an additional graduate elective.

Additional TU Graduate Program Information:

- Students must take degree appropriate course maximums and minimums into account when selecting courses to fill degree map notations listed above, counting any previously completed 5000-level double-counting courses as 7000-level courses for the purposes of graduate degree requirements. These selections can be done in consultation with the program advisor and Graduate School Academic Advisor. A full listing of minimum and maximum requirements for either the Master of Engineering or Master of Science in Engineering can be found at [Petroleum Engineering Graduate Programs \(utulsa.edu\)](http://Petroleum Engineering Graduate Programs (utulsa.edu)).
- No more than 6 hours of graduate coursework with grades of C are applicable towards graduate degree requirements, including any double counting 5000-level courses.
- If a student does not choose to complete undergraduate degree requirements through the use of up to 9 hours of 5000-level coursework, those hours must be taken at the graduate level after matriculating into the Graduate School. Completion of the degree in one year would then require the student to take 12 hours in Semester Eleven and 6 hours in a summer semester.
- A thesis Master of Science in Engineering program is also available through the McDougal School of Petroleum Engineering. Students can choose to pursue this instead of the non-thesis Master of Engineering, with the understanding that degree completion for a thesis averages 3 years post-bachelor's when time for the research and writing components are factored in.
 - When pursuing a Master of Science in Engineering degree, students must pass a comprehensive oral examination in addition to any listed course requirements. The comprehensive oral examination covers the research work and content of the thesis.

APPROVALS