

# TCC2TU

TRANSFER MAP



## Associate of Science in Engineering, Mechanical Engineering (TCC) to Bachelor of Science in Mechanical Engineering (University of Tulsa)

Total Transfer Credit Hours at TCC (69) + Total Credit Hours at University of Tulsa (64) = 133 credit hours  
Catalog Year: 2020-2021

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 is an 8-semester map provided to guide students as they plan their undergraduate education. This university transfer map is based on a full-time academic load of 30 credit hours per year, but can be adjusted to fit a part-time schedule. Please note this is not an official degree plan, but a guide. Work with your academic advisor to develop a personalized degree plan based on this university transfer map.

### YEAR ONE – TULSA COMMUNITY COLLEGE

Semester One		Semester Two	
TCC Course and TU Equivalent Course	Hrs.	TCC Course and TU Equivalent Course	Hrs.
ENGL 1113 Composition I <i>TU Equivalent: FREL 1003</i>	3	ENGL 1213 Composition II <i>TU Equivalent: ENGL 1033</i>	3
*MATH 2114 Analytic Geometry & Calc. I <i>TU Equivalent: MATH 2014</i>	4	MATH 2124 Analytic Geometry & Calc. II <i>TU Equivalent: MATH 2024</i>	4
ENGR 1111 Introduction to Engineering <i>TU Equivalent: ME 1311</i>	1	ENGR 1132 Engineering Design with Computer Aided Design <i>TU Equivalent: ME 1212</i>	2
*CHEM 1315 General Chemistry I <i>TU Equivalent: : CHEM 1013/1011 (4 credits) FREL 1001 (1 credit)</i>	5	ENGR 1242 Introductory Engineering Computer Programming <i>TU Equivalent: FREL 1002</i>	2
3 hrs. Humanities ( <a href="#">from TU Block I List</a> ) <i>TU Equivalent: Block I</i>	3	PHYS 2034 Physics I with Calculus <i>TU Equivalent: PHYS 2053/2051</i>	4
		HIST 1483 U.S. Hist. 1492 to the Civil War Era <b>or</b> 1493 U.S. Hist. Civil War Era to the Present <i>TU Equivalent: HIST 2503 (Block II)</i>	3
<b>Semester Credit Hours at TCC:</b>	<b>16</b>	<b>Semester Credit Hours at TCC:</b>	<b>18</b>

\*MATH PLACEMENT/ PRE-REQUISITES: Students must have completed MATH 1513 and MATH 1613 or MATH 1715 or have demonstrated math competencies at the pre-calculus level through test scores prior to the first semester to complete the A.S. degree within two years. See an academic advisor to learn more about Math placement testing.

### YEAR TWO – TULSA COMMUNITY COLLEGE

Semester Three		Semester Four	
TCC Course and TU Equivalent Course	Hrs.	TCC Course and TU Equivalent Course	Hrs.
PHYS 2124 Physics II with Calculus <i>TU Equivalent: PHYS 2063/2061</i>	4	3 Hrs. Humanities ( <a href="#">from TU Block II List</a> ) <i>TU Equivalent: Block II</i>	3
ENGR 2103 Engineering Statics <i>TU Equivalent: ES 2013</i>	3	General Education Req. Elec <a href="#">(from TU Block II List)</a> <i>TU Equivalent: Block II</i>	3
ENGR 2213 Thermodynamics <i>TU Equivalent: ENGR 3053</i>	3	ENGR 2523 Elementary Dynamics <i>TU Equivalent: ME 2023</i>	3
MATH 2134 Analytic Geometry & Calculus III <i>TU Equivalent: MATH 2073 (3 credits) FREL 1001 (1 credit)</i>	4	ENGR 2143 Eng. Strength of Materials <i>TU Equivalent: ES 3023</i>	3
MATH 2613 Elem. Differential Equations <i>TU Equivalent: MATH 3073</i>	3	ENGR 2613 Intro. to Electrical Science <i>TU Equivalent: ECE 2003</i>	3
		POLS 1113 American Federal Government <i>TU Equivalent: POL 2053 (Block II)</i>	3
<b>Semester Credit Hours at TCC:</b>	<b>17</b>	<b>Semester Credit Hours at TCC:</b>	<b>18</b>

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### YEAR THREE – UNIVERSITY OF TULSA

Semester Five		Semester Six	
TU Course	Hrs.	TU Course	Hrs.
FYE 1001 First Year Experience	1	ME 3043 Energy Conversion	3
ES 2513 Engineering Applications Programming	3	ME 3063 Manufacturing Processes	3
ES 3003 Introductory Fluid Mechanics	3	ME 4024 Machine Dynamics	4
ME 3034 Properties of Materials	4	Math or Science Elective Choose from: MATH 3013, MATH 3033, MATH 4123, MATH 4143, STAT 4318, BIOL 1603, CHEM 1023, PHYS 2063, GEOL 1014	3
ME 3053 Instrumentation and Measurements	3	ECE 2001 Basic Electrical Measurements Laboratory	1
ME 2001 Professional Aspects of Mechanical Engineering	1	**Block I Select a course on the list that also meets the HCGD requirement if haven't already been met previously with an appropriate Block II course	3
<b>Semester Credit Hours at TU:</b>	<b>15</b>	<b>Semester Credit Hours at TU:</b>	<b>17</b>

\*\*Select a Block I course from the list that also meets the HCGD requirement if haven't already been met previously with an appropriate Block II course.

### YEAR FOUR – UNIVERSITY OF TULSA

Semester Seven		Semester Eight	
TU Course	Hrs.	TU Course	Hrs.
ENGL 3003 Writing for the Professions	3	ME 4293 Interdisciplinary Design Projects	3
ME 4383 Mechanical Engineering Design	3	ME 4054 System Dynamics and Controls	4
ME 3014 Thermofluids	4	Computational Elective Choose from: ME 4033, ME 4093, MATH 4503	3
ES 3073 Heat Transfer	3	Math or Science Elective Choose from: MATH 3013, MATH 3033, MATH 4123, MATH 4143, STAT 4318, BIOL 1603, CHEM 1023, PHYS 2063, GEOL 1014	3
ME Elective	3	ES 3083 Engineering Economics	3
<b>Semester Credit Hours at TU:</b>	<b>16</b>	<b>Semester Credit Hours at TU:</b>	<b>16</b>

#### Additional Program Information:

- After matriculating into TU, a student must complete the mechanical engineering major with a grade point average of 2.0 or higher as well as an overall grade point average of 2.0 or higher in order to graduate.

#### Milestones and Recommended Actions:

- **Consider Summer Courses:** Summer courses at TCC can help accelerate your time to transfer, and help you stay on track. Talk to your advisor about planning summer courses.
- **During or After Year One at TCC:** Consider a campus tour of University of Tulsa and connect with a TU academic advisor, to ensure you are on track to transfer. Your TCC academic advisor can assist in planning these actions.
- **During Year Two at TCC:** After (or during) semester three coursework, apply for admission at University of Tulsa as a transfer student (<https://admission.utulsa.edu/apply/transfer-applicants/>).
- **Final Semester at TCC:** Congratulations you are about to earn you're A.S. in Mechanical Engineering! Be sure to apply for graduation @ <https://www.tulsacc.edu/student-resources/graduation>.

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- **Transcripts:** Submit an official TCC transcript to TU ([www.tulsacc.edu/student-resources/student-records/requesting-and-submitting-transcripts](http://www.tulsacc.edu/student-resources/student-records/requesting-and-submitting-transcripts)).
- **Reverse Transfer:** If you have not earned an Associate in Arts or an Associate in Science from TCC, and have completed 60 credit hours, with 15 of those hours completed at TCC, email [reversetransfer@tulsacc.edu](mailto:reversetransfer@tulsacc.edu) to see if you qualify for a degree through the Reverse Transfer program.

### Learn More About Programs in this Pathway:

- TCC A.S. Mechanical Engineering - <https://www.tulsacc.edu/programs-and-courses/academic-programs/engineering-mechanical-engineering>
- TU B.S. Mechanical Engineering - <https://engineering.utulsa.edu/mechanical-engineering/>

### University Transfer Contact Information

University Transfer Office  
Tulsa Community College  
[www.tulsacc.edu/transfer](http://www.tulsacc.edu/transfer)  
Contact: [tcc2university@tulsacc.edu](mailto:tcc2university@tulsacc.edu)

Amy Stroud  
Transfer Credit and Articulation Specialist  
University of Tulsa  
Contact: 918-631-2224, [transfer-evals@utulsa.edu](mailto:transfer-evals@utulsa.edu)