

TCC2NSU

TRANSFER MAP



Associate in Science in Mechanical Engineering at Tulsa Community College to Bachelor of Science in Mechanical Engineering at Northeastern State University

63 Credit Hours at TCC + 61 Credit Hours at NSU = 124 Total Credit Hours

Transfer Map Catalog Year: 2024-2025

University Campus Locations: Broken Arrow Campus

Note to Students: Transfer maps provide a semester by semester guide to a university showing how TCC courses transfer to a specific bachelor's degree program. This transfer map is based on a full-time schedule and is just one example of how a student may successfully complete degree requirements for both programs. Students should work with a TCC advisor and the university to ensure they are on-time and on-track for transfer. Students are responsible for understanding the program/admission/transfer requirements for the university and for completing requirements in the official degree sheet for each major.

TULSA COMMUNITY COLLEGE – SEMESTER ONE

TCC Course	NSU Course	Credit Hours
CHEM 1315 General Chemistry I (L) or CHEM 1365 General Chemistry for Engineers*	CHEM 1123 & 1131 - General Chemistry I and lab	5
HIST 1483 or HIST 1493 U.S. History	HIST 1483 American History to 1877 or HIST 1493 American History since 1877	3
ENGR 1111 Introduction to Engineering	ENGR 1003 Introduction to Engineering	1
MATH 2114 Analytic Geometry and Calculus I (A)*	MATH 2614 Calculus I	4
ENGL 1113 Composition I	ENGL 1113 English Composition I	3
Semester Credit Hours at TCC:		16

*MATH PLACEMENT: 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 this degree within two years/within the number of hours listed in the agreement. See an academic advisor to learn more about Math placement testing.

TULSA COMMUNITY COLLEGE – SEMESTER TWO

TCC Course	NSU Course	Credit Hours
ENGR 1132 Engineering Design w. Computer Aided Design	ENGR Hrs.	2
ENGR 1242 Introductory Engineering Computer Programming	ENGR Hrs.	2
PHYS 2034 Physics I with Calculus (L)	PHYS 2115 Engineering Physics I	4
MATH 2124 Analytic Geometry and Calculus II (A)	MATH 2624 Calculus II	4
ENGL 1213 Composition II	ENGL 1213 English Composition II	3
Semester Credit Hours at TCC:		15

TULSA COMMUNITY COLLEGE – SEMESTER THREE

TCC Course	NSU Course	Credit Hours
ENGR 2103 Engineering Statics	ENGR 3133 Statics	3
ENGR 2213 Thermodynamics	ENGR 3653 Thermodynamics I	3
General Education Required Elective	General Elective	3
MATH 2613 Elementary Differential Equations	Sub for MATH 4113 Differential Equations	3
PHYS 2124 Physics II with Calculus (L)	PHYS 2215 - Engineering Physics II	4
Semester Credit Hours at TCC:		16

TULSA COMMUNITY COLLEGE – SEMESTER FOUR

TCC Course	NSU Course	Credit Hours
ENGR 2143 Engineering Strength of Materials	ENGR 3263 Mechanics of Materials	3
ENGR 2523 Elementary Dynamics	ENGR 3213 Mechanics (Dynamics)	3
ENGR 2613 Introduction to Electrical Science	ENGR 3513 Electricity and Magnetism (Circuit Theory)	3
MATH 2134 Analytic Geometry and Calculus III	MATH 2634 Calculus III	4
POLS 1113 American Federal Government	POLS 1113 American Federal Government	3
Semester Credit Hours at TCC:		16

See notes below in regard to reverse transfer

NORTHEASTERN STATE UNIVERSITY – SEMESTER FIVE

NSU Course	Credit Hours
ENGR 3543 Engineering Analysis and Methods	3
ENGR 3282 Mechanics laboratory	2
ENGR 3813 Fluid Mechanics	3
ENGR 3852 Fluids Laboratory	2
MATH 3513 Statistical Methods	3
Humanities Elective**	3
Semester Credit Hours at NSU:	16

*Notes: **It is recommended that students reverse transfer two 3-credit hour courses from NSU to TCC to complete their A.S. in Mechanical Engineering. Contact reversetransfer@tulsacc.edu for assistance with this process after semester five.*

NORTHEASTERN STATE UNIVERSITY – SEMESTER SIX

NSU Course	Credit Hours
ENGR 4413 Advanced Heat	3
ENGR 3662 Thermal Engineering Lab	2
ENGR 3913 Computational Methods in Engineering	3
MATH 3983 Linear Algebra	3
Humanities Elective**	3
General Elective	1
Semester Credit Hours at NSU:	15

Congratulations you have earned your Associate Degree from TCC! Time to celebrate!

NORTHEASTERN STATE UNIVERSITY – SEMESTER SEVEN

NSU Course	Credit Hours
ENGR 4152 Engineering Design I	2
ENGR 3874 Systems and Controls (integrated with Digital Logic Design Lab and Mechatronics Lab)	4
Mechanical Engineering Elective	3
Upper General Electives	3
General Electives	3
Semester Credit Hours at NSU:	15

NORTHEASTERN STATE UNIVERSITY – SEMESTER EIGHT

NSU Course	Credit Hours
ENGR 4252 Engineering Design II	2
ENGR 4323 Machine Elements	3
Upper General Electives	4
General Electives	3
General Electives	3
Semester Credit Hours at NSU:	15

Congratulations you have earned your Bachelor's Degree from NSU! Time to celebrate!

TCC 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 Northeastern State University and connect with a NSU 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:** During or right after semester three coursework, apply for admission at Northeastern State University as a transfer student (<https://apply.nsuok.edu/>).
- **Final Semester at TCC:** Congratulations you are about to earn your Associate Degree! Be sure to apply for graduation @ <https://www.tulsacc.edu/student-resources/graduation>.
- **Transcripts:** After your final semester, submit an official TCC transcript to NSU (www.tulsacc.edu/student-resources/student-records/requesting-and-submitting-transcripts).
- **Reverse Transfer:** Students who transfer to a university before completing an associate degree and who have earned at least 15 credit hours from TCC may be eligible to complete their TCC degree through Reverse Transfer. Email reversetransfer@tulsacc.edu to see if you qualify for a degree through the Reverse Transfer program (<https://www.tulsacc.edu/student-resources/graduation/reverse-transfer>).

Program Information and Recommended Actions - NSU:

- **Mechanical Engineering Electives must be chosen from one of the electives listed below.**
 - ENGR 3583 Manufacturing Processes
 - ENGR 4653 Thermodynamics II
 - ENGR 3413 Statistical Thermodynamics
 - ENGR 3714 Electronics

- **General Electives can be chosen from mechanical engineering electives as well as courses from other programs.**

Baccalaureate Degree Information:

- Students must complete minimum 60 of 120 credit hours from a university (four-year school), excluding physical education courses.
- 30 credit hours are required from NSU.
- 40 credit hours must be junior and senior (3000/4000) level courses.
- At least 45 credit hours must be ENGR courses.
- At least 18 hours or 50% of the major, whichever is greater, must be from NSU; half the major must be upper level (3000/4000).
- English proficient (ENGL 1113 Composition & ENGL 1213 Composition II) with a C or better.
- Computer proficient.

Learn More About Programs in this Pathway:

- TCC A.S. Mechanical Engineering - <https://www.tulsacc.edu/academics/programs-courses/mechanical-engineering-engineering>
- NSU BS Mechanical Engineering program - https://catalog.nsuok.edu/preview_program.php?catoid=34&poid=4578&returnto=2123

University Transfer Contact Information

University Transfer Office
Tulsa Community College
www.tulsacc.edu/transfer
Contact: tcc2university@tulsacc.edu

Transfer Student Services
Northeastern State University
<https://www.nsuok.edu/Transfer>
Contact: transfer2nsu@nsuok.edu

APPROVAL SIGNATURE PAGE

 <u>Zhao, Weihuan (Oct 17, 2024 09:27 CDT)</u>	10/17/2024
Dr. Weihuan Zhao, Program Coordinator Northeastern State University	Date
	10/24/2024
Dr. Jessica Martin, Dean, Science and Health Professions Northeastern State University	Date
	10/24/2024
Dr. Carla Swearingen, Provost Northeastern State University	Date
 <u>Brandon B. A. Miller (Oct 16, 2024 12:35 CDT)</u>	10/16/2024
Dr. Brandon Miller, Director University Transfer Tulsa Community College	Date
	10/16/2024
Don Crall Jr., Faculty Department Chair Tulsa Community College	Date
 <u>Sheila Youngblood (Oct 16, 2024 19:01 CDT)</u>	10/16/2024
Dr. Sheila Youngblood, Dean Tulsa Community College	Date
	10/17/2024
Dr. Kristopher Copeland, Associate Vice President for Academic Affairs Tulsa Community College	Date










TCC2NSU A.S. Mechanical Engineering to B.S. Mechanical Engineering 2024-2025 Final Draft (Total Hours Update)


Final Audit Report

2024-10-24

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