



Associate in Science in Engineering at Tulsa Community College to Bachelor of Science in Industrial and Systems Engineering at the University of Oklahoma

60 Credit Hours at TCC + 65 Credit Hours at OU = 125 Total Credit Hours

Transfer Map Catalog Year: 2026-2027 (Year 1 of 1)

OU-Tulsa Campus Location: Norman, OK

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	OU Course	Credit Hours
ENGL 1113 Composition I	ENGL 1113 Principles of English Comp	3
*MATH 2114 Analytic Geometry & Calculus I	MATH 1914 Diff & Integral Calculus I	4
HIST 1483 or 1493 US History	HIST 1483/1493 US History	3
^ Humanities Elective	Lower Division General Education	3
^ General Education Required Elective	Lower Division General Education	3
Semester Credit Hours at TCC:		16

*** 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 your TCC academic advisor to learn more about Math placement testing at TCC.

TULSA COMMUNITY COLLEGE – SEMESTER TWO		
TCC Course	OU Course	Credit Hours
ENGL 1213 Composition II	ENGL 1213 Principles of English Comp	3
MATH 2124 Analytic Geometry & Calculus II	MATH 2924 Diff & Integral Calculus II	4
PHYS 2034 Physics I with Calculus	PHYS 2514 General Physics, Engr/Sciences	4
POLS 1113 American Federal Government	PSC 1113 American Federal Government	3
Semester Credit Hours at TCC:		14

^One of these courses could potentially be taken at OU to reduce total credit hours listed for pathway by 3-credit hours through reverse transfer. Consult with TCC academic advisor about this possibility.

TULSA COMMUNITY COLLEGE – SEMESTER THREE		
TCC Course	OU Course	Credit Hours
±ENGR 1242 Introductory Engineering Computer Programming	ENGR 1999 Lower Division Transfer Credit	2
ENGR 2103 Statics (controlled elective)	AME 2113 Statics	3
MATH 2134 Analytic Geometry & Calculus III	MATH 2934 Diff & Integral Calculus II	4
PHYS 2124 Physics II with Calculus	PHYS 2524 General Physics - Engr/Sciences	4
^Humanities Elective	Lower Division General Education	3
Semester Credit Hours at TCC:		16

±TCC will allow ENGR 1242 Introductory Engineering Computer Programming to substitute as pre-requisite requirement for CSCI 2473 C Language for Engineering program students.

TULSA COMMUNITY COLLEGE – SEMESTER FOUR		
TCC Course	OU Course	Credit Hours

MATH 2613 Elementary Differential Equations	MATH 3113 Introduction to Ordinary Differential Equations	3
CHEM 1365 Gen. Chemistry for Engineers	CHEM 1315 General Chemistry (NS lab)	5
±CSCI 2473 C Language (controlled elective)	CS 1313 Programming for non-majors	3
ENGR 2143 Strength of Materials (controlled elective)	CEES 2153 Mechanics of Materials	3
Semester Credit Hours at TCC:		14

Note to TCC advisors: Advisor may need to submit DW adjustment request to reduce the hours from 10 to 9 in Controlled Electives if listed selections in this transfer map are taken.

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

UNIVERSITY OF OKLAHOMA – Summer Semester	
ISE 3293 Applied Engineering Statistics	3
Semester Credit Hours at OU:	3

UNIVERSITY OF OKLAHOMA – SEMESTER FIVE [a]	
OU Course	Credit Hours
ISE 2823 Enterprise Engineering	3
ENGR 3511 Engineering Orientation for Transfer Students [b]	1
ENGR 2002 Professional Responsibilities and Skills of Engineers {c}	2
ISE 4113 Spreadsheet Based Decision Support Systems	3
ISE 4553 Data Driven Decision Making I	3
ISE 4623 Deterministic Systems Models	3
Semester Credit Hours at OU:	15

UNIVERSITY OF OKLAHOMA – SEMESTER SIX [a]	
OU Course	Credit Hours
ISE 2303 Design & Manufacturing Processes	3
ISE 2311 Computer – Aided Design & Graphics Lab	1
ISE 4223 Ergonomics in System Design	3
ISE 4563 Quality & Reliability Engineering	3
ISE 4633 Probabilistic Systems Models	3
ISE 4804 Ergonomics in System Design	4
Semester Credit Hours at OU:	17

UNIVERSITY OF OKLAHOMA – SEMESTER SEVEN [a]	
OU Course	Credit Hours
ISE 3304 Design & Manufacturing II	4
ISE 4333 Productions and Systems Operations	3
ISE 4383 Systems Evaluation	3
ISE 4663 Systems Analysis Using Simulation	3
ISE 4853 Data Driven Decision Making II	3
Semester Credit Hours at OU:	16

UNIVERSITY OF OKLAHOMA – SEMESTER EIGHT [a]	
OU Course	Credit Hours
ISE 4393 – Capstone Design Project	3
ISE Elective [d]	3
ISE Tech Elective [d]	3
ISE 4302 – Systems Thinking	2

Upper Division Gen Ed 3000+ level [e]	3
Semester Credit Hours at OU:	14

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

[a] Students must have 60 hours minimum completed at OU or from a baccalaureate degree-granting institution. At OU 40 hours of upper-division coursework; and 30 hours in residence must be met to complete the BS degree.

[b] Transfer students will need to meet the requirements of the first-year experience course [ENGR 1413] as well as ENGR 3511. The First Year Experience course (Core V) is waived however, for students who earn an A.S Degree.

[c] ENGR 2002 Professional Skills for Engineers may be taken in the summer session at OU between the second and third years.

[d] Electives are to be taken from a departmental list, please contact your OU advisor for more information.

[e] Per OU requirements, at least one course used to satisfy the general education requirements (Core IV) must be at the upper division level and outside of the student's major.

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 OU and connect with an OU 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 OU as a transfer student <https://www.ou.edu/tulsa/apply>.
- **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 OU (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>).

University of Oklahoma Program Notes and Information:

- Students must complete a minimum of 60 hours at OU to earn a bachelor's degree. This is an [Oklahoma State Regents for Higher Education policy](#).
- Students must complete a minimum of 30 hours at OU, fifteen hours must be upper-division (3000-& 4000-level) major courses. This is an [Oklahoma State Regents for Higher Education policy](#).
- Some OU courses are only offered once per year.

College Specific Program Notes and Information:

- At least one General Education category course must be at the Upper Division level (3000 or 4000 level) and outside a student's major.
- **College of Engineering Foreign Language Requirement:**
- Students can meet the OU foreign language requirement by completing two years of the same language in high school and having it posted on their high school transcript, or with a completed Associate in Science or Associate in Arts degree.

Learn More About Programs in this Pathway:

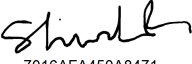
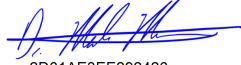
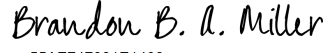
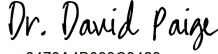
- TCC A.S. Engineering program - <https://www.tulsacc.edu/academics/programs-courses/engineering-engineering>
- OU B.S. Industrial and Systems Engineering program - <https://www.ou.edu/coe/ise>

University Transfer Contact Information

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

Transfer Admission & Recruitment
University of Oklahoma
www.ou.edu/transfer
Contact: 405.325.2151
transfer@ou.edu

APPROVAL SIGNATURE PAGE

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Dr. Mark Morvant, Senior Vice Provost, University of Oklahoma	Date
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Dr. Kristopher Copeland, Associate Vice President of Academic Affairs, Tulsa Community College	Date