



**Associate in Science in Computer Information Systems at Tulsa Community College to Bachelor of Science in Cybersecurity at University of Oklahoma Polytechnic Institute**

**63 Credit Hours at TCC + 60 Credit Hours at OU = 123 Total Credit Hours**

**Transfer Map Catalog Year:** 2024-2025

**OU-Tulsa Campus Location:** 4502 E 41st St, Tulsa, OK 74135

**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.

<b>TULSA COMMUNITY COLLEGE – SEMESTER ONE</b>		
<b>TCC Course</b>	<b>OU Course</b>	<b>Credit Hours</b>
ENGL 1113 Composition I	ENGL 1113 Principles of English Composition (Core 1)	3
MATH 1513 Precalculus I*	Open Elective, lower-division	3
CSYS 1203 Intro to Computer Programming	CS 1324 Introduction to Computer Programming for Non-Programmers	3
POLS 1113 American Federal Government	POLS 1113 American Federal Government	3
General Education Science (with lab)	Approved Elective, Natural Science (Core II-Lab)	4
<b>Semester Credit Hours at TCC:</b>		<b>16</b>

\***Note:** A higher-level MATH may be selected based on previous coursework or placement test score, allowing for 3-6 hours of Computer Information Systems courses to be substituted.

<b>TULSA COMMUNITY COLLEGE – SEMESTER TWO</b>		
<b>TCC Course</b>	<b>OU Course</b>	<b>Credit Hours</b>
ENGL 1213 Composition II	ENGL 1213 Principles of English Composition (Core I) or EXPO 1213 Expository Writing	3
MATH 1613 Precalculus II*	Open Elective, lower-division	3
CSCI 2473 C Language	CS 1324 Intro to Computer Programming for Non-Programmers	3
General Education Science (without lab)	Approved Elective, Natural Science (Core II)	3
General Education Required Elective (Social Sciences Course Recommended)	Approved Elective, Social Science (Core III)	3
<b>Semester Credit Hours at TCC:</b>		<b>15</b>

### TULSA COMMUNITY COLLEGE – SEMESTER THREE

TCC Course	OU Course	Credit Hours
MATH 2114 Analytic Geometry & Calculus I	MATH 1823 Calculus and Analytic Geometry I (Core I)	4
CSCI 2133 Introduction to JAVA <b>and</b> CSCI 2843 C++ Programming	CS 2334 Programming Structures and Abstraction	3 3
HIST 1483 US History to Civil War <b>or</b> HIST 1493 US History Civil War to Present (3 hours total)	HIST 1483 United States to 1865 (Core IV) or HIST 1493 United States, 1865 to the Present (Core IV)	3
General Education Humanities Elective	Approved Elective, Western Culture (Core IV)	3
<b>Semester Credit Hours at TCC:</b>		16

### TULSA COMMUNITY COLLEGE – SEMESTER FOUR

TCC Course	OU Course	Credit Hours
General Education Humanities Elective	Approved Elective, World Culture (Core IV)	3
MATH 2124 Analytic Geometry & Calculus II	MATH 2423 Calculus and Analytic Geometry II	4
MATH 2653 Discrete Mathematics	CS 2813 Discrete Structures or MATH 2513 Discrete Mathematical Structures	3
CSCI 2683 Data Structures	CS 2413 Data Structures	3
Liberal Arts and Sciences Elective	Open Elective, lower-division	3
<b>Semester Credit Hours at TCC:</b>		16

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

### UNIVERSITY OF OKLAHOMA-TULSA – SEMESTER FIVE

OU Course	Credit Hours
CYBS 3213 Foundations of Cybersecurity	3
CYBS 3123 Introduction to Unix Systems	3
CYBS 3223 Applied Statistics for Computing	3
CYBS 3323 Hardware Security	3
Approved Upper-Division Elective (3000-4000), Artistic Forms (Core IV)	3
<b>Semester Credit Hours at OU:</b>	15

### UNIVERSITY OF OKLAHOMA-TULSA – SEMESTER SIX

OU Course	Credit Hours
CYBS 3113 Operating Systems Fundamentals	3
CYBS 3313 Introduction to Cyber Ethics and Law	3
CYBS 3743 Cyberforensics Fundamentals	3
CYBS 3813 Network Fundamentals	3
CYBS 3913 Database Fundamentals	3
<b>Semester Credit Hours at OU:</b>	15

UNIVERSITY OF OKLAHOMA-TULSA – SEMESTER SEVEN	
OU Course	Credit Hours
CYBS 4103 Engineering Secure Software	3
CYBS 4203 Cybersecurity Risk Management and Assessment	3
CYBS 4473 Network Security	3
CYBS Major Elective	3
CYBS Major Elective	3
<b>Semester Credit Hours at OU:</b>	<b>15</b>

UNIVERSITY OF OKLAHOMA-TULSA – SEMESTER EIGHT	
OU Course	Credit Hours
CYBS 4293 Introduction to Cloud Computing and Security	3
CYBS 4883 Cryptography Fundamentals	3
CYBS 4963 Cybersecurity Capstone	3
CYBS Major Elective	3
CYBS Major Elective	3
<b>Semester Credit Hours at OU:</b>	<b>15</b>

**Congratulations you have earned your Bachelor's Degree from OU! BOOMER SOONER!**

#### **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-Tulsa and connect with an OU-Tulsa 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-Tulsa 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](http://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](mailto: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 Program Notes and Information:**

- OU's Core V General Education course is waived for students who complete an associate's degree in arts or science from a regionally affiliated college in Oklahoma. If a student has not completed an associate's degree this three-hour course is required and will increase the number of hours to complete the bachelor's degree.

#### **Learn More About Programs in this Pathway:**

- TCC A.S. Computer Information Systems - <https://www.tulsacc.edu/academics/programs-courses/computer-information-systems>
- OU-TULSA B.S. Cybersecurity - <https://www.ou.edu/tulsa/polytechnic/bscyber>

## 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)

University of Oklahoma Polytechnic Institute – Tulsa  
Susan Thompson – [susan.thompson@ou.edu](mailto:susan.thompson@ou.edu)  
<https://www.ou.edu/tulsa/polytechnic>  
Phone: (918) 660-3457