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

Available at University of Oklahoma Polytechnic Institute (4502 E 41st St, Tulsa, OK 74135)

Tulsa Community College (Years 1 and 2) 2024-2025

Year One – Tulsa Community College

Fall

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

Spring

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

*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.

Year Two – Tulsa Community College

Fall

TCC Course	OU Course	✓
MATH 2114 Analytic Geometry & Calculus I	MATH 1823 Calculus and Analytic Geometry I (Core I)	
CSCI 2133 Introduction to JAVA **and** CSCI 2843 C++ Programming	CS 2334 Programming Structures and Abstraction	
HIST 1483 US History to Civil War **or** 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)	
General Education Humanities Elective	Approved Elective, Western Culture (Core IV)	
Semester Credit Hours at TCC: 16		

Spring

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

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

The **University of Oklahoma Polytechnic Institute** (OUPI) at OU-Tulsa is focused on high-demand, advanced and applied technology-based education. From curriculum to on-site training, programs at OUPI will help meet the changing academic and workforce needs of the Tulsa region largely thanks to our close working relationship with industry partners. All classes are in person, hands on, and right here in Tulsa.

University of Oklahoma Polytechnic Institute (Years 3 and 4) - 2024-2025

Year Three - University of Oklahoma Polytechnic Institute

Fall

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

Spring

OUPI Course	✓
CYBS 3113 Operating Systems Fundamentals	
CYBS 3313 Introduction to Cyber Ethics and Law	
CYBS 3743 Cyberforensics Fundamentals	
CYBS 3813 Network Fundamentals	
CYBS 3913 Database Fundamentals	
Semester Credit Hours at OUPI: 15	

Year Four - University of Oklahoma Polytechnic Institute

Fall

OUPI Course	✓
CYBS 4103 Engineering Secure Software	
CYBS 4203 Cybersecurity Risk Management and Assessment	
CYBS 4473 Network Security	
CYBS Major Elective	
CYBS Major Elective	
Semester Credit Hours at OUPI: 15	

Spring

OUPI Course	✓
CYBS 4293 Introduction to Cloud Computing and Security	
CYBS 4883 Cryptography Fundamentals	
CYBS 4963 Cybersecurity Capstone	
CYBS Major Elective	
CYBS Major Elective	
Semester Credit Hours at OUPI: 15	

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

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.
- **Apply** to the OU Polytechnic Institute upon earning at least 24 credit hours and a 2.5 GPA https://hello.ou.edu/apply/
- **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).
- **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 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
- **OUPI B.S. Cybersecurity -** https://www.ou.edu/tulsa/polytechnic/bscyber

University Transfer Contact Information

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

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