



**Associate in Science in Engineering (TCC) to  
Bachelor of Science in Computer Engineering (OSU)**

Available in Stillwater

Tulsa Community College (years 1 and 2) – 2025-26

**Year One – Tulsa Community College**

*Fall*

TCC Equivalent or Substitute	OSU Requirement	✓
ENGR 1111 – Intro to Engineering	UNIV 1111	
*CHEM 1365 – General Chemistry for Engineers	CHEM 1414 + 1 hour elective	
ENGL 1113 – Composition I	ENGL 1113	
*MATH 2114 – Calculus I	MATH 2144 (Q)	
^CSYS 1203 – Introduction to Computer Programming	^CS 1103 (Q)	
<b>Semester Credit Hours at TCC: 16</b>		

*Spring*

TCC Equivalent or Substitute	OSU Requirement	✓
ENGL 1213 – Composition II	ENGL 1213	
HIST 1483 – Am Hist 1492 – Civil War or HIST 1493 – Am Hist Civil War - Pres	HIST 1483 (H) or HIST 1493 (DH)	
CSCI 2473 – C Language	CS 1113 (Q)	
PHYS 2034 – Physics I with Calculus	PHYS 2014 (LN)	
MATH 2124 – Calculus II	MATH 2153 (Q) + 1 hour elective	
<b>Semester Credit Hours at TCC: 17</b>		

\*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.

^CSYS 1203 is only needed as a pre-requisite for CSCI 2473. Work with your advisor if you feel you can test out or to request instructor approval.

**Year Two- Tulsa Community College**

*Fall*

TCC Equivalent or Substitute	OSU Requirement	✓
CSCI 1483 – Intro to Unix/Linux	CS 2351 + CS 2---	
PHYS 2124 –Physics II with Calculus	PHYS 2114 (LN)	
CSCI 2843 – C++ Programming Lang	CS 2433	
Humanities (3 credit hours)	Humanities	
MATH 2613 – Differential Equations	MATH 2233	
<b>Semester Credit Hours at TCC: 16</b>		

*Spring*

TCC Equivalent or Substitute	OSU Requirement	✓
ENGR 2213 Thermodynamics or ENGR 2103 Statics	ENSC 2213 or ENSC 2113	
POLS 1113 – American Federal Government	POLS 1113	
3 Hrs. Humanities	Humanities	
MATH 2134 – Calculus III	MATH 2163 + 1 hour elective	
SOCI 1113 – Intro to Sociology or PSYC 1113 – Intro to Psychology General Education Required Elective	SOC 1113 (S) or PSYC 1113 (S)	
<b>Semester Credit Hours at TCC: 16</b>		

Before transferring to OSU, have the TCC Registrar send an official transcript to the OSU Admissions Office with any degrees earned noted on the transcript. If you have not completed the requirements for an associate degree, talk with your OSU Academic Advisor about Reverse Transfer options to use OSU coursework to complete your TCC associate degree.

## Oklahoma State University (years 3 - 5) – 2025-26

### Year Three – Oklahoma State University

*Fall*

OSU Requirement	✓
ECEN 2714 – Fundamentals of Electric Circuits	✓
ECEN 2233 – Fundamentals of Digital Logic Design	
MATH 3013 – Linear Algebra (Q)	
CS 3653 – Discrete Math for Computer Science	
ENSC 2611 – Electrical Fabrication Lab	
<b>Semester Credit Hours at OSU: 14</b>	

*Spring*

OSU Requirement	✓
ECEN 3714 – Network Analysis	
ECEN 3213 – Computer Based Systems in Engineering	
CS 3353 – Data Structures & Algorithm Analysis I	
IEM 3503 – Engineering Economic Analysis	
ENGL 3323 Technical Writing	
<b>Semester Credit Hours at OSU: 16</b>	

### Year Four – Oklahoma State University

*Fall*

OSU Requirement	✓
ECEN 3314 – Electronic Devices and Applications	
ECEN 3513 – Signal Analysis	
ECEN 3613 – Applied Fields and Waives I	
ECEN 4293 – Applied Numerical Methods for Python for Electrical Engineers	
ECEN 4213 – Embedded Computer Systems Design	
<b>Semester Credit Hours at OSU: 16</b>	

*Spring*

OSU Requirement	✓
ECEN 4013 – Design of Engineering Systems	
ECEN 4503 – Probability & Statistics to Random Signals	
ECEN 4243 – Computer Architecture	
3 Hrs ECEN elective	
CS 4323 – Design & Implementation of Operating Systems I or ECEN 4283 – Computer Networks	
<b>Semester Credit Hours at OSU: 15</b>	

### Year Five – Oklahoma State University

*Fall*

OSU Requirement	✓
ECEN 4024 – Capstone Design	
ECEN 4303 – Digital Integrated Circuit Design	
3 Hrs ECEN elective	
<b>Semester Credit Hours at OSU: 10</b>	

This plan is only one example of how a student may successfully complete degree requirements. Students are responsible for completing the requirements as given in the official degree requirements sheet.

