



**Associate in Science in Engineering Technology (TCC) to
Bachelor of Science in Engineering Technology- Mechatronics and Robotics (OSU)**
Available in Stillwater

Tulsa Community College (years 1 and 2) – 2023-24

Year One – Tulsa Community College

Fall

TCC Equivalent or Substitute	OSU Requirement	✓
ENGL 1113 Composition I	ENGL 1113	
ENGR 1111 Intro to Engineering	ENGR 1111	
DRFT 1324 - Engineering Drawing with CAD	MET 1123 + MET 1--1	
POLS 1113 American Government	POLS 1113	
*MATH 2114 Analytic Geometry and Calculus I	MATH 2144 (A)	
Semester Credit Hours at TCC: 15		

Spring

TCC Equivalent or Substitute	OSU Requirement	✓
CSCI 2473 C Language	CS 1113 (A) subs for EET 2303	
MATH 2124 Analytic Geometry and Calculus II	MATH 2153 (A) + 1 hour (A)	
PHYS 2034 Physics I	PHYS 2014 (LN)	
Additional Science to meet AS degree requirement (4-5 hours)	(N)	
ENGL 1213 Composition II	ENGL 1213 subs for ENGL 3323 with AS degree	
Semester Credit Hours at TCC: 18-19		

* 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.

Year Two- Tulsa Community College

Fall

TCC Equivalent or Substitute	OSU Requirement	✓
COMM 1113 Public Speaking (S) (General Ed Required Elective)	SPCH 2713 (S)	
ELET 1303 DC Circuit Analysis	EET 1104	
ENGR 2103 Statics	ENSC 2113	
3 hours Humanities	Humanities (H)	
MATH 2134 Calculus III	MATH 2163 + MATH 2--1	
Semester Credit Hours at TCC: 16		

Spring

TCC Equivalent or Substitute	OSU Requirement	✓
3 hours Humanities	Humanities (H)	
ELET 1313 AC Circuit Analysis	EET 1244	
ENGR 2143 Strength of Materials	ENSC 2143	
ENGR 2523 - Dynamics	ENSC 2123	
HIST 1483 – Am Hist 1492 – Civil War or HIST 1493 – Am Hist Civil War - Pres	HIST 1483 (H) or HIST 1493 (DH)	
Semester Credit Hours at TCC: 15		

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 and 4) – 2023-24

Year Three – Oklahoma State University

Fall

OSU Requirement	✓
MATH 3623 Linear Algebra & Differential Equations or EET 3423 Applied Analysis Tech	✓
EET 2544 Pulse and Digital Techniques	
MET 2313 – Hydraulic Fluid Power	
STAT 4013 Statistical Methods	
ENGR 2421 Data Acquisition Lab	
Semester Credit Hours at OSU: 14	

Spring

OSU Requirement	✓
MET 3223 – Geometric Dimensioning & Tolerancing	
EET 2633 Solid State Devices and Circuits I	
MET 4003 – Machine Elements	
Upper Division Controlled Elective 3 credit hours	
MET or EET 3803 Fundamentals of Mechatronics	
Semester Credit Hours at OSU: 15	

Year Four – Oklahoma State University

Fall

OSU Requirement	✓
MERO Related Specialty 3 credit hours	
MET 4803 Mechatronic System Design	
MERO 4833 – Senior Design I	
EET 3373 Programmable Logic Controller Fundamentals	
MERO 4213 Industrial Robots	
Semester Credit Hours at OSU: 15	

Spring

OSU Requirement	✓
EET 4314 Elements of Control	
MERO 4843 – Senior Design II	
IEM 3503 – Engineering Economic Analysis	
EET 4903 Mechatronics Autonomous Systems	
MERO Related Specialty 3 credit hours	
Semester Credit Hours at OSU: 16	

Note: ENGL 3323 is waived upon completion of the AS in Engineering at TCC.

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

