



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

Tulsa Community College (years 1 and 2) – 2022-23

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	
**CHEM 1315 Chemistry I or CHEM 1365 General Chemistry for Engineers	CHEM 1314 (LN) or CHEM 1414 (LN) + 1 hour (LN)	
3 hours Humanities	Humanities (H)	
**MATH 2114 Analytic Geometry and Calculus I	MATH 2144 (A)	
Semester Credit Hours at TCC: 16		

Spring

TCC Equivalent or Substitute	OSU Requirement	✓
COMM 1113 Public Speaking (S) (General Ed Required Elective)	SPCH 2713 (S)	
ENGR 1132 - Engineering Design with Computer Aided Design	ENGR 1332	
MATH 2124 Analytic Geometry and Calculus II	MATH 2153 (A) + 1 hour (A)	
ENGR 1242 Computer Programming	ENGR 1412	
PHYS 2034 Physics I	PHYS 2014 (LN)	
Semester Credit Hours at TCC: 15		

* If a 'B' or higher is not earned in ENGL 1113 then ENGL 1213 is also required (per Academic Regulation 3.5 at OSU). Students intending on pursuing Bachelors of Science in Mechanical Engineering Technology are required to complete ENGL 3323 Technical Writing at OSU, which will be substituted for ENGL 1213 at TCC.

** 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	✓
ENGR 2103 Statics	ENSC 2113	
ENGR 2213 Thermodynamics	ENSC 2213 (sub for MET 3433)	
MATH 2134 Analytic Geometry and Calculus III	MATH 2163 (A) Controlled elective + 1 hour (A)	
PHYS 2124 Physics II	PHYS 2114 (LN) Controlled elective	
POLS 1113 American Government	POLS 1113	
Semester Credit Hours at TCC: 17		

Spring

TCC Equivalent or Substitute	OSU Requirement	✓
ENGR 2143 Strength of Materials	ENSC 2143	
ENGR 2523 - Dynamics	ENSC 2123 (sub for MET 3003)	
ENGR 2613 Intro Electrical Science	ENGR 2613 (sub for EET 1134)	
HIST 1483 – Am Hist 1492 – Civil War or HIST 1493 – Am Hist Civil War - Pres	HIST 1483 (H) or HIST 1493 (DH)	
3 hours Humanities	Humanities (H)	
MATH 2613 Differential Equations	MATH 2233 Elective for OSU	
Semester Credit Hours at TCC: 18		

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) – 2022-23

Year Three – Oklahoma State University

Fall

OSU Requirement	✓
EET 1214 AC Circuits	
ENGL 3323 – Tech. Writing (Completes Associate’s Degree)	
ENSC 2141 – Strength of Materials Lab	
MET 1121 – Tech. Graphics	
MET 2313 – Hydraulic Fluid Power	
MET 3343- Metallurgy & Polymers	
Semester Credit Hours at OSU: 15	

Spring

OSU Requirement	✓
ENGR 2421 – Data Acquisition LAB	
ENSC 3231 – Fluids/Hydraulics Lab	
MET 2223 – GD&T w/ CAD	
MET 3313 – Applied Fluid Mechanics	
ENSC 3311 – Material Science Lab	
MET 4003 – Machine Elements	
MET ____ (3) Related Specialty	
Semester Credit Hours at OSU: 15	

Action: After semester five (first Fall semester at OSU-Tulsa) students should complete a reverse transfer to earn their A.S. Mechanical Engineering from Tulsa Community College. Contact reversetransfer@tulsacc.edu to complete this process.

Year Four – Oklahoma State University

Fall

OSU Requirement	✓
ENSC 3431 – Heat Transfer and Thermodynamics Lab	
MET 3453 – Heat Transfer	
MET 4103/4133 – Senior Design I	
MET ____ (3) Related Specialty	
Upper Division Controlled Elective (3)	
*Elective (2) to earn 60 hours from a Senior College (A or N or S elective)	
Semester Credit Hours at OSU: 15	

Spring

OSU Requirement	✓
IEM 3503/ 3513 – Economic Decision Analysis	
MET 3113 – Basic Instrumentation	
MET 3543 Manufacturing Processes	
MET 4123/4143 – Senior Design II	
MET ____ (3) Related Specialty	
Semester Credit Hours at OSU: 15	

*Oklahoma State Regents for Higher Education require all students to complete at least 60 credit hours from a senior (4-year) college. Because 69 credit hours are required to graduate with the AS in Mechanical Engineering from TCC, students will graduate from OSU with 126 or more credit hours.

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.

