

Associate in Science in Engineering (TCC) to Bachelor of Science in Electrical 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) | | | |
| Semester Credit Hours at TCC: 16 | | | | |

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 | | | |
| Semester Credit Hours at TCC: 17 | | | | |

*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 | | | |
|---|-----------------|--|--|--|
| ENGR 2103 – Statics | ENSC 2113 | | | |
| PHYS 2124 – Physics II with Calculus | PHYS 2114 (LN) | | | |
| CSCI 2843 – C++ Programming Lang | CS 2433 | | | |
| 3 Hrs Humanities | Humanities | | | |
| MATH 2613 – Differential Equations | MATH 2233 | | | |
| Semester Credit Hours at TCC: 16 | | | | |

Spring

| TCC Equivalent or Substitute | OSU Requirement | | | |
|--|-------------------------------------|--|--|--|
| 3 hours from ENGR 2213 – Thermodynamics ENGR 2523 – Elementary Dynamics ENGR 2143 – Strength of Materials | ENSC 2213 ENSC 2123 ENSC 2143 | | | |
| 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 | SOC 1113 (S) or PSYC 1113 (S) | | | |
| Semester Credit Hours at TCC: 16 | | | | |

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 – Electric Circuits | ✓ |
| ECEN 2233 – Digital Logic Design | |
| MATH 3013 – Linear Algebra (Q) | |
| ENGL 3323 – Technical Writing | |
| ENSC 2611 – Electrical Fabrication Lab | |
| Semester Credit Hours at OSU: 14 | |

Spring

| OSU Requirement | ✓ |
|---|---|
| ECEN 3714 – Network Analysis | ✓ |
| ECEN 3213 – Computer Based Systems in Engineering | |
| ECEN 3903 – Semiconductor Devices | |
| IEM 3503 – Engineering Economic Analysis | |
| Semester Credit Hours at OSU: 13 | |

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 – Numerical Methods for Python | |
| 3 Hrs. ECEN elective | |
| Semester Credit Hours at OSU: 16 | |

Spring

| OSU Requirement | ✓ |
|--|---|
| ECEN 4013 – Design of Engineering Systems | ✓ |
| ECEN 4503 – Probability & Statistics to Random Signals | |
| 3 Hrs. ECEN elective | |
| 3 Hrs. ECEN elective | |
| Semester Credit Hours at OSU: 12 | |

Year Five – Oklahoma State University

Fall

| OSU Requirement | ✓ |
|---|---|
| ECEN 4024 – Capstone Design | ✓ |
| 3 Hrs. ECEN elective | |
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| 3 Hrs. ECEN elective | |
| Semester Credit Hours at OSU: 13 | |

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.

