Advance your career by earning a bachelor’s degree in Instrumentation Engineering Technology through the Tulsa Community College and OSU Institute of Technology Bachelor of Technology Partnership Pathway.

This pathway was created for individuals who wish to pursue rewarding, successful careers in the high-demand field of instrumentation engineering technology. Through the TCC/OSUIT partnership, students pursuing TCC’s Associate in Applied Science in Electronics Technology may seamlessly transfer and apply up to sixty-seven (67) credit hours toward the OSUIT Bachelor of Technology in Instrumentation Engineering Technology program. The remaining coursework, listed below, will be completed through OSUIT.

**BT General Education Requirements: 15 hours**

- ORIE 1011 College Strategies and
- *ENGL 3323 Technical Writing III and
- Up to eleven hours of coursework from the following:
  - PHYS 1214 General Physics and/or
  - MATH 2144 Calculus and/or
- *MATH 2153 Calculus II and/or
- PHIL 1213 Ethics and/or
- Three hours of social science, foreign language or fine arts coursework and/or
- Three hours of humanities coursework

**BT Technical Requirements: 46 hours**

- *ETD 2411 Employment Exploration and
- *ETDE 2123 PLC Applications and
- *ETDE 2273 Electronic Control Devices and
- *ETDE 3112 Internship and
- *ETDE 3123 Instrumentation and
- *ETDE 3133 Process Measurement & Control and
- *ETDE 3213 Project Management & Engineering Economics and
- *ETDE 3223 Industrial Networks and
- *ETDE 3313 Heat Transfer & Fluid Mechanics and
- *ETDE 3513 Programming for Instrumentation and
- *ETDE 4233 Liquid & Gas Flow Measurement and
- *ETDE 4313 Distributed Control Systems and
- *ETDE 4813 Capstone

*Has a prerequisite  |  Contingent on coursework completed through TCC

**TOTAL: 61 HOURS**

FIND OUT MORE

Contact OSUIT Information Technologies Division
918.293.5440 or infotech@okstate.edu

TCC Business, Information & Engineering Technology Division
918.595.7439 or pat.green@tulsacc.edu
# REQUIREMENTS

## Tulsa Community College

### GENERAL EDUCATION REQUIREMENTS: 35 HOURS

**English Composition:** 6 hours

*ENGL 1113 Composition I and
*ENGL 1213 Composition II

**Mathematics:** 6 hours

*MATH 1513 College Algebra and
*MATH 1613 Plane Trigonometry

**U.S. History:** 3 hours

HIST 1483 U.S. History 1492 to Civil War Era or
HIST 1493 U.S. History Civil War Era to Present

**U.S. Government:** 3 hours

POLS 1113 American Federal Government

**Science:** 8 hours

*PHYS 1114 General Physics I or
*CHEM 1115 General Chemistry I

**Additional General Education Coursework:** Up to 9 hours

*PHYS 1214 General Physics II and/or
*MATH 2114 Analytic Geometry and Calculus I and/or
*MATH 2124 Analytic Geometry and Calculus II and/or
Three hours of social science, foreign language or fine arts coursework and/or
PHIL 1143 Introduction to Ethics and/or
Three hours of humanities coursework

## OSU Institute of Technology

### GENERAL EDUCATION REQUIREMENTS: 35 HOURS

**English Composition:** 6 hours

*ENGL 1113 Freshman Composition I and
*ENGL 1213 Freshman Composition II

**Mathematics:** 6 hours

*MATH 1513 College Algebra and
*MATH 1613 Trigonometry

**U.S. History:** 3 hours

HIST 1483 U.S. History to 1865 or
HIST 1493 U.S. History since 1865

**U.S. Government:** 3 hours

POLS 1113 U.S. Government

**Science:** 8 hours

*PHYS 1114 General Physics I and
*CHEM 1114 General Chemistry I

**Additional General Education Coursework:** Up to 9 hours

*PHYS 1214 General Physics I and/or
*MATH 2114 Calculus I and/or
*MATH 2153 Calculus II and/or
Three hours of social science, foreign language or fine arts coursework and/or
PHIL 1213 Ethics and/or
Three hours of humanities coursework

## TECHNICAL REQUIREMENTS: 29 HOURS

### Technical Core: 24 hours

*ELET/ALTE 1223 Hydraulics & Pneumatics and
*ELET 1303 DC Circuit Analysis and
*ELET 1313 AC Circuit Analysis and
*ELET 1503 Programmable Control and
*ELET 2215 Digital Circuits and
*ELET 2244 Amplifiers I and
*ELET 2333 Amplifiers II and
*ELET 2533 Automation Control

### Additional Technical Coursework: 5 hours

DRFT 1324 Engineering Drawing with CAD and
*ELET 1212 Introduction to Electricity

*Course has a prerequisite | §Approved substitution

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**TOTAL: 67 HOURS**