INSTRUMENTATION ENGINEERING TECHNOLOGY TCC/OSUIT 2014-15



BACHELOR OF TECHNOLOGY



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

^CUp 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

*FTDF 3223 Industrial Networks and

*ETDE 3313 Heat Transfer & Fluid Mechanics and

*ETDE 3513 Programming for Instrumentation and *ETDE 4233 Liquid & Gas Flow Measurement and

*FTDE 4717 D' 1 1 1 1 0 1 1 0 1

*ETDE 4313 Distributed Control Systems and

*ETDE 4813 Capstone

*Has a prerequisite | CContingent 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

OSU Institute of Technology

GENERAL EDUCATION REQUIREMENTS: 35 HOURS

English Composition: 6 hours

*ENGL 1113 Composition I and *ENGL 1213 Composition II

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

Mathematics: 6 hours

*MATH 1513 College Algebra and *MATH 1613 Plane Trigonometry

*MATH 1513 College Algebra and *MATH 1613 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 HIST 1483 U.S. History to 1865 or HIST 1493 U.S. History since 1865

U.S. Government: 3 hours

POLS 1113 American Federal Government

POLS 1113 U.S. Government

Science: 8 hours

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

*PHYS 1114 General Physics I and *CHEM 1314 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 *PHYS 1214 General Physics I and/or

*MATH 2144 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

TECHINCAL 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

*ETDE 2253 Hydraulics & Pneumatics and

*ETDE 1243 DC Electronics & Metrology and

*ETDE 1263 AC Electronic & Photonics and

*ETD 2113 Introduction to PLCs and

*ETDE 1373 Digital Systems & Microcontrollers and

*ETDE 1363 Electronic Devices & Standards and

*ETDE 2223 Electrical Power Distribution and

*ETD 1343 Electrical Motors & Controls

Additional Technical Coursework: 5 hours

DRFT 1324 Engineering Drawing with CAD and

*ETDG 1143 Introduction to Design/Drafting and

*SELET 1212 Introduction to Electricity ETD 1102 Basic Mechanics

TOTAL: 67 HOURS

^{*}Course has a prerequisite | SApproved substitution