



# BACHELOR OF TECHNOLOGY



**Advance your career by earning a bachelor's degree in Instrumentation Engineering Technology through the Richland 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 RLC/OSUIT partnership, students pursuing RLC's Associate in Applied Science in Electronics Technology may seamlessly transfer and apply up to sixty-eight (68) credit hours toward the OSUIT Bachelor of Technology in Instrumentation Engineering Technology program. The remaining coursework, listed below, will be completed through OSUIT.

## AAS General Education Requirements: 11 hours

ORIE 1011 College Strategies  
ENGL 3323 Technical Writing III

Up to 7 hours of coursework from the following:  
\*CHEM 1314 General Chemistry and/or  
HIST 1483 U.S. History to 1865 and/or  
HIST 1493 U.S. History since 1865 and/or  
POLS 1113 U.S. Government

## BT Technical Requirements: 49 hours

ETDE 1343 Electrical Motors & Controls  
\*ETDE 1363 Electronic Devices & Standards  
\*ETDE 2123 PLC Applications  
\*ETDE 2223 Electrical Power Distribution  
\*ETD 2411 Employment Exploration  
\*ETDE 3112 Internship  
\*ETDE 3133 Process Measurement & Control

\*ETDE 3213 Project Management & Engineering Economics  
\*ETDE 3223 Industrial Networks  
\*ETDE 3313 Heat Transfer & Fluid Mechanics  
\*ETDE 3513 Programming for Instrumentation  
\*ETDE 4233 Liquid & Gas Flow Measurement  
\*ETDE 4313 Distributed Control Systems  
\*ETDE 4813 Capstone

\*Has a prerequisite | <sup>C</sup>Contingent on coursework completed through RLC

**TOTAL: 60 HOURS**

## FIND OUT MORE

Contact OSUIT School of Engineering Technologies  
918.293.5150 or [melissa.knobloch@okstate.edu](mailto:melissa.knobloch@okstate.edu)

Contact RLC School of Engineering, Business & Technology  
918.238.6210 or [kgoldammer@dcccd.edu](mailto:kgoldammer@dcccd.edu)

# REQUIREMENTS

Richland College

OSU Institute of Technology

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## GENERAL EDUCATION REQUIREMENTS: 36 HOURS

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### English Composition: 6 hours

ENGL 1301 Composition I and  
\*ENGL 1302 Composition II

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

### Communication: 3 hours

SPCH 1315 Fundamentals of Public Speaking or  
SPCH 1311 Introduction to Speech Communication

SPCH 1113 Introduction to Speech or  
SPCH 2313 Small Group Communications

### Mathematics: 13 hours

MATH 1314 College Algebra and  
\*MATH 1316 Plane Trigonometry and  
\*MATH 2413 Calculus I and  
\*MATH 2414 Calculus II

\*MATH 1513 College Algebra and  
\*MATH 1613 Trigonometry and  
\*MATH 2144 Calculus I and  
\*MATH 2153 Calculus II

### Humanities: 3 hours

PHIL 2306 Introduction to Ethics

PHIL 1213 Ethics

### Science: 8 hours

\*PHYS 1401 College Physics I and  
\*PHYS 1402 College Physics II

\*PHYS 1114 General Physics I and  
\*PHYS 1214 General Physics II

### General Education Elective: 3 hours

Three hours of social science, foreign language  
or fine arts coursework

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## TECHINCAL REQUIREMENTS: 32 HOURS

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### Technical Core: 23 hours

DFTG 1309 Basic Computer-Aided Drafting and  
MCHN 1338 Basic Machine Shop and  
CETT 1403 DC Circuits and  
\*CETT 1405 AC Circuits and  
\*<sup>S</sup>INTC 1307 Instrumentation Test Equipment and  
CETT 1425 Digital Fundamentals or  
CETT 2337 Microcomputer Control and  
\*INMT 1417 Industrial Automation and  
HYDR 1345 Hydraulics & Pneumatics

ETDG 1143 Introduction to Design/Drafting and  
ETD 1102 Basic Mechanics and  
ETDE 1243 DC Electronics & Metrology and  
ETDE 1263 AC Electronics & Photonics and  
ETDE 3123 Instrumentation and  
ETDE 1373 Digital Systems & Microcontrollers and  
  
ETDE 2113 Introduction to PLCs and  
ETDE 2253 Hydraulics & Pneumatics

### Additional Technical Coursework: Up to 9 hours

\*CHEM 1411 General Chemistry I and/or  
Three hours of add. humanities coursework and/or  
HIST 1301 History of the United States and/or  
HIST 1302 History of the United States and/or  
GOVT 2305 Federal Government

\*CHEM 1314 General Chemistry I and/or  
Three hours of add. humanities coursework and/or  
HIST 1483 U.S. History to 1865 and/or  
HIST 1493 U.S. History since 1865 and/or  
POLS 1113 U.S. Government

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\*Course has a prerequisite | <sup>S</sup>Will be accepted as satisfying the content of the corresponding upper-division course; however, students will be required to meet the upper-division credit hour requirements of the degree

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## TOTAL: UP TO 68 HOURS