

ELECTRICAL AND INSTRUMENTATION TECHNOLOGY CONCENTRATION INDUSTRIAL ENGINEERING TECHNOLOGY

Associate in Applied Science Degree

LENGTH: Six Semesters

PURPOSE: The Electrical and Instrumentation Technology program is designed to help students exit the program with hands-on skills and knowledge recognized by industry partners as the key competencies to succeed in the field of instrumentation technology.

AREA I WRITTEN COMPOSITION 3 SH

ENG 101..... English Composition I 3

AREA II HUMANITIES AND FINE ARTS 6 SH

Humanities Electives ART 100, MUS 101, PHL 200, PHL 206, REL 151, or REL 152..... 3

SPH 107..... Fundamentals of Public Speaking 3

AREA III NATURAL SCIENCES AND MATHEMATICS 9-10 SH

MTH 116 or MTH 100 Mathematical Applications or Intermediate College Algebra 3

CIS 146..... Microcomputer Applications 3

Electives MTH, SCI, CIS 130 or CIS 147..... 3-4

AREA IV HISTORY, SOCIAL, AND BEHAVIORAL SCIENCES 3 SH

Elective ANT, ECO, GEO, HIS, POL, PSY, or SOC..... 3

AREA V PRE-PROFESSIONAL, MAJOR, AND ELECTIVE COURSES 46 SH

IET 114 Basic Electricity..... 3

IET 122 Rotating Machinery and Controls 3

IET 131 Fluid Power Systems..... 3

ILT 108..... Introduction to Instruments and Process Control..... 3

ILT 114 or ILT 214 Instrumentation Operation and Calibration or Control and Troubleshooting
..... Flow, Level, Temperature, Pressure, and Level Processes 3

ILT 110..... Advanced Industrial Process Control Technology..... 3

ILT 166..... Motors and Transformers I 3

ILT 114..... Instrumentation Operation and Calibration..... 3

INT 117..... Principles of Industrial Mechanics 3

ELT 212 Motor Controls II..... 3

ELT 231 Introduction to Programmable Controllers..... 3

ELT 232 Advanced Programmable Controllers..... 3

Electives ELT, IET, ILT, INT, or ACR 6

WKO 107 or ORI 101..... Work Place Skills Preparation or Orientation to College 1

WKO 110..... NCCER Core..... 3

Total Hours 67-68 SH

This is a career program designed for students to go directly into the labor market upon completion. Although some of the courses in this program will transfer to four-year institutions, this program is not designed to be a transfer program of study; therefore, it is not subject to the terms and conditions of STARS.