

Industrial Systems Technology

Diploma Program

IST4

Updated: 9/30/2015
Effective Term: 201614

[Click here to jump to Program Description, Admissions Requirements, and Financial Aid.](#)

Curriculum

Basic Skills – Total of 8 Hours

ENGL 1010 *Fundamentals of English I* (3)
EMPL 1000 *Interpersonal Relations* (2)

MATH 1012 *Foundations of Mathematics* (3) - OR -
MATH 1013 *Algebraic Concepts* (3)

Program-Specific Core – Total of 29 Hours

IDSY 1130 *Industrial Wiring* (4)
IDSY 1170 *Industrial Mechanics* (4)

IDFC 1011 *Direct Current I* (3) - OR -
IDSY 1101 *DC Circuit Analysis* (3)

ELTR 1020 *Electrical Systems Basics I* (3) - OR -
IDFC 1012 *Alternating Current I* (3) - OR -
IDSY 1105 *AC Circuit Analysis* (3)

IDSY 1110 *Industrial Motor Controls* (4)
IDSY 1120 *Basic Industrial PLCs* (4)
IDSY 1190 *Fluid Power Systems* (4)
IDSY 1195 *Pumps and Piping Systems* (3)

Occupational-Related Electives – Choose 9 Hours

Occupational-Related Electives

AUMF 1150 *Introduction to Robotics* (3)
AUMF 2060 *Work Cell Design Laboratory* (2)
CIST 1001 *Computer Concepts* (4)
ENGT 1000 *Intro to Engineering Tech* (3)
IDSY 1020 *Print Reading/Problem Solving* (3)
IDSY 1160 *Mechanical Laws/Principles* (4)
IDSY 1210 *Industrial Motor Controls II* (4)
IDSY 1220 *Intermediate Industrial PLCs* (4)
IDSY 1240 *Maintenance for Reliability* (4)
MCHT 1011 *Intro to Machine Tool* (4)
MCHT 1119 *Lathe Operations I* (3)
MCHT 1120 *Mill Operations I* (3)
MEGT 1010 *Manufacturing Processes* (3)
WELD 1000 *Intro to Welding Technology* (3)
WELD 1040 *Flat Shielded Metal Arc Welding* (4)

Total: 46 Hours

For more information about our graduation rates, the median debt of students who complete programs, and other important information please visit our website:
<http://www.laniertech.edu/GE.aspx>

Industrial Systems Technology

Diploma Program

IST4

Program Description

The Industrial Systems Technology diploma program is designed for the student who wishes to prepare for a career as an Industrial Systems technician/electrician. The program provides learning opportunities that introduce, develop, and reinforce academic and technical knowledge, skill, and attitudes required for job acquisition, retention, and advancement. Additionally, the program provides opportunities to retrain or upgrade present knowledge and skill. The diploma program teaches skills in Industrial Systems Technology providing background skills in several areas of industrial maintenance, including electronics, industrial wiring, motors, controls, PLCs, instrumentation, fluidpower, mechanical, pumps and piping, and computers. Graduates of the program receive an Industrial Systems technology diploma that qualifies them for employment as industrial electricians or industrial systems technicians.

Program Specific Information

Students are accepted every semester based on course and space availability.

Program Length & Availability

4 Semesters

Campus Availability: Oakwood

Admissions Requirements

- Must be 16 years of age.
- High school diploma or GED is required prior to admission.
(Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)
- ACCUPLACER Testing, or submit SAT, ACT, CPE, COMPASS, or ASSET test scores.

Financial Aid

This program is eligible for the Pell Grant and may be eligible for Institutional and State Financial Aid.

Contact a Financial Aid Counselor for eligibility requirements and application materials.

[Click here to jump back to Curriculum](#)

For more information about our graduation rates, the median debt of students who complete programs, and other important information please visit our website:
<http://www.laniertech.edu/GE.aspx>