

# Industrial Technology

## Program Description:

Your academic experience will include a foundation in the basic sciences, mathematical concepts through algebra and trigonometry, general education, software, technology and automation.

You will learn to apply your skills toward the solution of practical, industrial-type technical problems. During your senior year, you will participate in the construction-and-build semester of a real-world industrial project, working with engineers and company representatives. During your time at LSSU, you will also have developed communication skills that will enable you to grow and succeed in your professional career.

Not a first-time college student? There are multiple technical and free electives to allow transfer students to fit into the flow of the program.

## Career Descriptions:

As a graduate, you will have the ability to seek employment in the technical areas of business, industry, and manufacturing. Graduates will find opportunities in the high-tech areas of manufacturing, robotics, and automation.

## Industrial Technology Bachelor of Science

### Required Courses

CHEM108	Applied Chemistry	3
CHEM109	Applied Chemistry Lab	1
CSCI101	Introduction to Microcomputer Applications	3
CSCI105	Introduction to Computer Programming	3
ECON202	Principles of Microeconomics	3
EGEE125	Digital Fundamentals	4
EGET110	Applied Electricity	4
EGET175	Applied Electronics	4
EGME110	Manufacturing Processes	3
EGME141	Solid Modeling	3
EGME240	Assembly Modeling and GD&T	3
EGMT225	Statics and Strength of Materials I	4
EGMT310	CNC Manufacturing Processes	4
EGNR265	C Programming	3
	<i>or</i>	
CSCI121	Principles of Programming	3
EGNR310	Advanced Quality Engineering	4
EGRS215	Robotics Technology I	2
EGRS365	Programmable Logic Controllers	3
EGRS380	Robotics Technolog II	2
EGRS381	Robotics Technology II Lab	1
MATH102	Intermediate Algebra	4
MATH140	Precalculus	5
MATH207	Principles of Statistical Methods	3
PHYS221	Principles of Physics I	4

### Complete one sequence:

<b>Industrial Project</b>		
EGNR496	Senior Directed Project	3
<b>Cooperative Project</b>		
EGNR450	Cooperative Education Project I	2
EGNR451	Cooperative Education Project II	2

**Approved Electives (18 credits\*)**  
Approved by the coordinator of the manufacturing engineering technology degree program.

**Free Electives (8 credits)**  
**General Education (22-23 credits)**

## Bachelor of Science

### Career Choices:

Process Control Technician

Robotics Programmer

Maintenance Technologist

Service Technician

Sales Technician

Automation Specialist

CNC Programmer

PLC Programmer

CAD Designer

### Student Profile:

*Do you...*

like working with your hands?

enjoy practical problem solving?

have a desire to see projects through to completion?

have high motivation and drive?

### Bachelor of Science Degree:

At least eight (8) semester credits *in addition* to courses used for general education requirements from categories of social science, natural science or mathematics.

*These bachelor of science degree requirements can be used for majors or minors, but not general education.*