

# INDUSTRIAL TECHNOLOGY (B.S.)

Degree: Bachelor of Science

Major: Industrial Technology

Total Hours: 120

The department offers the Bachelor of Science in Industrial Technology (B.S.) in an online format. This algebra-based degree can accept up to 33 hours of technology credit from a 2-year AAS degree, certifications at a technology program, or military training. The degree covers topics of interest to the industry including project management, six sigma, lean manufacturing, logistics, supply chain management, work design, safety, maintenance, and production planning.

## College of Engineering Standards

In addition to the university requirements, the College of Engineering enforces the following standards:

Students are required to take courses in the sequence shown in the Lamar University General Catalog for each degree program. Engineering students are required to maintain a GPA of 2.0 to remain in the program. Students who fall below the required GPA of 2.0 will be placed on probation and given two long semesters to raise their GPA to a 2.0 or better (maximum load of 13 semester hours). Students who fail to meet this requirement will be suspended from their Engineering Major for one long term. Students returning from suspension must prepare a performance contract in consultation with their academic advisor. A minimum term of the contract requires the student to remove deficiencies every semester of enrollment. Students who fail to meet the terms of their contract will be permanently suspended.

Engineering students must make a 'C' or better in all STEM (Science, Technology, Engineering & Math) courses in order to satisfy degree plan/prerequisite requirements.

A course may be repeated for additional credit toward a degree only as specified by the official course description in the General Catalog. Excluding courses that may be taken for additional credit toward a degree, a student may not register for any course more than four times. Any student who wishes to repeat a course must do so before completing a more advanced course in the same subject matter field.

The student's advisor must approve all electives.

The Dean of Engineering may require students to meet the current degree requirements or program standards.

Please see each department's four-year suggested program of study.

Code	Title	Hours
<b>General Education Core Curriculum</b>		
<i>Communication</i>		
ENGL 1301	Composition I	3
Select one of the following:		3
COMM 1315	Public Speaking I	
COMM 1321	Business and Professional Speech	
DSDE 1371	ASL I	
ENGL 1302	Composition II	
FREN 1311	Beginning French I	

SPAN 1311	Beginning Spanish I	
<i>Mathematics</i>		
MATH 1314	College Algebra(Non-Calculus)	3
<i>Life and Physical Sciences</i> <sup>1</sup>		
Select two of the following:		6
BIOL 1407	General Biology II (Majors)	
BIOL 2401	Anatomy and Physiology I	
BIOL 2402	Anatomy and Physiology II	
GEOL 1403	Geology I: Physical Geology	
GEOL 1404	Geology II: Historical Geology	
PHYS 1401	College Physics I	
PHYS 1402	College Physics II	
PHYS 1405	Elementary Physics I	
PHYS 1407	Elementary Physics II	
PHYS 1411	Intro Astronomy	
SPSC 1401	Space Science	
<i>Language, Philosophy and Culture</i>		3
PHIL 1370	Philosophy of Knowledge	
PHIL 2306	Ethics	
DSDE 1374	Introduction to Deaf Studies	
ENGL 2300	Close Reading II	
ENGL 2322	British Literature	
ENGL 2326	American Literature	
ENGL 2331	World Literature	
ENGL 2376	African-American Literature	
FREN 2312	Intermediate French II	
SPAN 2312	Intermediate Spanish II	
<i>Creative Arts</i>		3
Select one of the following:		3
ARTS 1301	Art Appreciation	
ARTS 1303	Art History I	
DANC 2304	Dance Appreciation	
MUSI 1306	Music Appreciation	
COMM 1375	Film Appreciation	
COSC 1324	The Art of Computer Game Development	
MUSI 1306	Music Appreciation	
MUSI 1309	Jazz History and Appreciation	
MUSI 1310	History of Rock and Roll	
PHIL 1330	Arts and Ideas	
THEA 1310	Theatre Appreciation	
<i>American History</i>		6
Select two of the following:		6
HIST 1301	U S History I 1763-1877	
HIST 1302	U S History II Since 1877	
HIST 2301	Texas History	
<i>Government/Political Science</i>		3
POLS 2301	Intro to American Government I	3
POLS 2302	Intro/American Government II	3
<i>Social and Behavioral Sciences</i>		3
Select one of the following:		3
ANTH 2346	Introduction to Anthropology	
ANTH 2351	Cultural Anthropology	

BULW 1370	Business Environment and Public Policy	
CRIJ 1301	Intro to Criminal Justice	
ECON 1301	Principles and Policies	
ECON 2301	Principles of Economics I Macro	
ECON 2302	Principles of Economics II Micro	
FINC 2310	Intro to Consumer Finance	
INEN 2373	Engineering Economics	
POLS 1301	Intro to Political Science	
PSYC 2301	General Psychology	
PSYC 2315	Lifespan Development	
SOCI 1301	Introduction to Sociology	
SOWK 2361	Intro Social Work	

**Component Area Option**

INEN 2301	Applications of Quantitative Methods	3
Select one of the following:		1
LIBR 1101	Introduction to Library Research	
HNRS 2160	Scholars Development Seminar	

The additional 2 hours from Life and Physical Sciences are applied here 2

**Required Major Courses**

*Engineering Courses*

INEN 3300	Industrial Engineering-Intro	3
INEN 3330	Engineering Economy	3
INEN 3360	Computer Technology	3
INEN 4301	Quality Control Applications	3
INEN 4315	Industrial Management	3
INEN 4316	Industrial and Product Safety	3
INEN 4351	Production and Inventory Systems	3
INEN 4369	Engineering Management	3

**Elective Courses**

<i>INEN Elective</i>		
Seven 3000 or 4000 Level INEN Courses		21

<i>Other</i>		
11 Technology courses		33

**Total Hours 120**

<sup>1</sup> The additional 2 hours from Life and Physical Sciences are applied to the Component Area Option.

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
ENGL 1301	Composition I	3
Communication Core		3
TECH		3
TECH		3
TECH		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
Language, Philosophy, and Culture		3
MATH 1314	College Algebra(Non-Calculus)	3
TECH		3
TECH		3
TECH		3
<b>Hours</b>		<b>15</b>

<b>Second Year</b>		
<b>Fall</b>		
INEN 2301	Applications of Quantitative Methods	3
Lab Science		4
LIBR 1101	Introduction to Library Research	1
TECH		3
TECH		3
<b>Hours</b>		<b>14</b>

<b>Spring</b>		
Social and Behavioral Science		3
Lab Science		4
TECH		3
TECH		3
TECH		3
<b>Hours</b>		<b>16</b>

<b>Third Year</b>		
<b>Fall</b>		
INEN 3300	Industrial Engineering-Intro	3
HIST 1301	U S History I 1763-1877	3
INEN Elective	3000-4000	3
INEN Elective	3000-4000	3
INEN Elective	3000-4000	3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
INEN 3360	Computer Technology	3
HIST 1302	U S History II Since 1877	3
INEN Elective	3000-4000	3
INEN Elective	3000-4000	3
INEN Elective	3000-4000	3
<b>Hours</b>		<b>15</b>

<b>Fourth Year</b>		
<b>Fall</b>		
INEN 4315	Industrial Management	3
INEN 4301	Quality Control Applications	3
Creative Art Core		3
POLS 2301	Intro to American Government I	3
INEN Elective	3000-4000	3
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
INEN 4316	Industrial and Product Safety	3
INEN 4351	Production and Inventory Systems	3
INEN 4369	Engineering Management	3
POLS 2302	Intro/American Government II	3
INEN 3330	Engineering Economy	3
<b>Hours</b>		<b>15</b>

**Total Hours 120**