DEPARTMENT OF INDUSTRIAL TECHNOLOGY

DEFINITION OF INDUSTRIAL TECHNOLOGY

Industrial Technology is a profession, which requires such education and experience as is necessary to understand and apply technological and managerial sciences to industry.

TYPICAL ELEMENTS

The Industrial Technology program is a management-oriented technical curriculum built upon a balanced program of studies drawn from a variety of disciplines related to manufacturing technology. Included are a sound knowledge and understanding of materials and production processes; principles of distribution and concepts of industrial management and human relations; experiences in communication skills, humanities, and social sciences; and a proficiency level in the physical sciences, mathematics, design, and technical skills to permit the graduate to resolve technical-managerial, and manufacturing production problems.

THE INDUSTRIAL TECHNOLOGY GRADUATE

The Industrial Technology Graduate is a professional industrial technologist with a broad technical and managerial background. Typically included in this background are a functional knowledge and understanding of materials and production processes; industrial management and human relations; communication skills, the physical sciences, mathematics, and current technical skills to enable the graduate to effectively meet technical, managerial, and industrial requirements.

Pre-Professional Programs

PRE-ARCHITECTURE Department of Industrial Technology

Students should plan to transfer after two years at Southeastern. Typical requirements include mathematics; physics; courses in design; English compositions, and speech. Consult advisor, since specific requirements differ widely among schools of architecture.

MANUFACTURING TECHNOLOGY CONCENTRATIONS

Students must elect to study one of the manufacturing technology concentrations: Automated Systems, Drafting/Design, Industrial Internship, and Supervision. Upon satisfactory completion of the Industrial Technology core curriculum and the concentration area, the student will be awarded a

Bachelor of Science degree. The Industrial Technology program at Southeastern Louisiana University is accredited by the National Association of Industrial Technology (NAIT). Included in this section, are the curriculum sheets for the manufacturing technology concentrations.

INDUSTRIAL INTERNSHIP

Students majoring in Industrial Technology may elect to participate in the Industrial Internship Program. This program is a cooperative venture between Southeastern Louisiana University and a variety of industries. It combines the student's academic and technical preparation at the University with actual on-the-job experiences in modern industrial enterprises. The program is designed to provide study on-campus and training off-campus as formal education and theory are blended with practice. In addition to regular classroom and laboratory experiences, the student gains valuable experiences in the world of work in a professional environment.

The Industrial Internship Program serves three primary functions: (1) provide students with an opportunity to observe and participate in industry by applying the principles learned in university courses; (2) provide students deeper insight into the courses they will take after each work experience period; and (3) establish evidence of the students' employability. The student, the employer, and the University departmental faculty work as a team in making the work experiences attain optimal learning value to prepare the students for taking their place as productive members in the industrial world.

To earn three (3) semester hours of credit, a student must be employed by an approved employer for a minimum of twenty (20) hours per week during a fall or spring semester or for a minimum of forty (40) hours per week during a summer session. For six (6) semester hours of credit, a student must be employed by an approved employer for a minimum of forty (40) hours per week during a fall or spring semester. A maximum of twelve (12) semester hours of credit may be earned in Industrial Internship.

To be eligible for the Industrial Internship Program the student must meet the following minimum criteria:

- 1. Have earned a minimum of thirty (30) semester hours of credit toward a degree in Industrial Technology.
- 2. Have a 2.5 minimum adjusted GPA (cumulative and major).
- 3. Make application (I.T. Form #107) to the Department Head of Industrial Technology.
- Have application approved by the Industrial Technology Internship Committee.
 A limited number of Industrial Internship positions are available each semester.

MAJOR

A minimum of 33 hours of required I.T. courses, 18 hours of I.T. Concentration Courses, and an additional 3 hours of I.T. electives are required for a Bachelor of Science degree in Industrial Technology for a total of 54 hours of Industrial Technology.

HONORS DIPLOMA IN THE DISCIPLINE

The department also offers an upper-division honors curriculum allowing its students to earn an honors diploma in the major at graduation. For information about requirements and honors courses in this department, please contact the Department Head.

MINORS

In order to minor in Industrial Technology, the student must complete twenty-one (21) semester hours from the following:

3 semester hours

IT 111 – Engineering Drafting	. 3 semester hours
IT 112 – Descriptive Geometry	. 3 semester hours
IT 115 - Occupational Safety and Health	. 3 semester hours
IT 233 - Introduction to Basic Electricity and Electronics	
IT 242 – Materials and Processes	. 3 semester hours
IT 264 – Industrial Fluid Power	. 3 semester hours
IT 302 - Loss Prevention, OSH 115 - Occupational Safety & Hlth,	
or IT 311 – Industrial Design	. 3 semester hours
IT 308 – Production Planning and Control or	
IT 402 – Industrial Supervision	. 3 semester hours

CURRICULUM IN INDUSTRIAL TECHNOLOGY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE AUTOMATED SYSTEMS CONCENTRATION (ACCREDITED BY NAIT)

	FIRST YEAR
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
†Industrial Technology 1113	†Industrial Technology 1123
Mathematics 1613	Mathematics 1623
English 1013	English 1023
Biological Science4	Chemistry 1013
Sociology 101or Psychology 1013	Chemistry Laboratory 1031
Orientation 1010-1	Computer Science 173 3
16-17	16
	SECOND YEAR
†Industrial Technology 2423	†Industrial Technology 2333
†Industrial Technology 2643	†Industrial Technology 2563
Mathematics 165 or 2413	Communication 211 3
English 230, 231 or 2323	Computer Science 2733
Physics 1913	Natural Science4
Physics Lab 1931	
16	16
	THIRD YEAR
†Industrial Technology 2363	†Industrial Technology 2153
†Industrial Technology 302 or	†Industrial Technology 3223
Occupational Safety & Health 1153	†Industrial Technology 3313
†Industrial Technology 3513	Accounting 2003
English 3223	History 101, 102, 201 or 202
Economics 2013	
15	15
	FOURTH YEAR
†Industrial Technology 4053	†Industrial Technology 4063
†Industrial Technology 4423	†Industrial Technology 407 3
Management 3513	†Industrial Technology 4443
Arts ² 3	†Technical Elective3
†Technical Elective3	
15	12
Total semester hours required	121-122
Orientation 101 is not required of transfer or re	andmitted Southeastern students with 30 hours or mo

Select Chemistry 102/104 or Physics 192/194.
Select One course in Art, Dance, Music or Theatre.
Technical electives should be selected by students in consultation with their advisors. Three hours must be selected from Industrial Technology and an additional 3 hours from Computer Science, Industrial Technology, Management, Mathematics, or Physical Science. No 100-level course will be accepted without approval of the Department Head.
†A "C" (2.0 minimum adjusted) must be earned in all major courses and technical electives.

CURRICULUM IN INDUSTRIAL TECHNOLOGY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE DRAFTING DESIGN CONCENTRATION (ACCREDITED BY NAIT)

	FIRST YEAR
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
†Industrial Technology 1113	†Industrial Technology 1123
Mathematics 1613	Mathematics 162 3
English 1013	English 1023
Biological Science4	Chemistry 101 3
Sociology 101or Psychology 1013	Chemistry Laboratory 1031
Orientation 1010-1	Computer Science 173 3
16-17	16
	SECOND YEAR
†Industrial Technology 2423	†Industrial Technology 2333
†Industrial Technology 2643	†Industrial Technology 2563
Mathematics 165 or 2413	Communication 211 3
English 230, 231 or 2323	Computer Science 273 3
Physics 1913	Natural Science4
Physics Lab 1931	
16	16
	THIRD YEAR
†Industrial Technology 2363	†Industrial Technology 2153
†Industrial Technology 302 or	†Industrial Technology 3223
Occupational Safety & Health 1153	Management 351 3
†Industrial Technology 3513	Accounting 200 3
English 3223	History 101, 102, 201 or 202
Economics 2013	•
15	15
	FOURTH YEAR
†DDT 113, 114, 211, 212, 215, 218, or	†DDT 113, 114, 211, 212, 215, 218, or
Industrial Technology 2166	Industrial Technology 216 3
†Industrial Technology 4053	†Industrial Technology 311 3
Arts ² 3	†Industrial Technology 4063
†Technical Elective ³ 3	†Technical Elective
15	12
Total semester hours required	121-122
Orientation 404 is not required of the refer on a	a desista di Carretta anno atrodo anto cristo 20 la como anno a

Select Chemistry 102/104 or Physics 192/194.
Select one course in Art, Dance, Music or Theatre.
Technical electives should be selected by students in consultation with their advisors. Three hours must be selected from Industrial Technology and an additional 3 hours from Computer Science, Industrial Technology, Management, Mathematics, or Physical Science. No 100-level course will be accepted without approval of the Department Head.
†A "C" (2.0 minimum adjusted) must be earned in all major courses and technical electives.

CURRICULUM IN INDUSTRIAL TECHNOLOGY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE INTERNSHIP CONCENTRATION (ACCREDITED BY NAIT)

	FIRST YEAR
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
†Industrial Technology 1113	†Industrial Technology 1123
Mathematics 1613	Mathematics 162 3
English 1013	English 1023
Biological Science4	Chemistry 101
Sociology 101or Psychology 1013	Chemistry Laboratory 1031
Orientation 1010-1	Computer Science 173 3
16-17	16
	SECOND YEAR
†Industrial Technology 2423	†Industrial Technology 2333
†Industrial Technology 2643	†Industrial Technology 2563
Mathematics 165 or 2413	Communication 211
English 230, 231 or 2323	Computer Science 2733
Physics 1913	Natural Science 4
Physics Lab 1931	
16	16
10	THIRD YEAR
†Industrial Technology 2363	†Industrial Technology 3223
†Industrial Technology 302 or	†Industrial Technology Elective
Occupational Safety & Health 1153	Management 351
†Industrial Technology 3513	Accounting 200
	History 101, 102, 201 or 202
English 322	Tilstory 101, 102, 201 or 202
15	15
15	FOURTH YEAR
Hadvetrial Technology 201	
†Industrial Technology 3916	†Industrial Technology 391
†Industrial Technology 4053	†Industrial Technology 406
Arts ²	† Technical Elective ³ 3
†Technical Elective3	40
Tatal association has recommended	12
Total semester hours required	121-122

Select Chemistry 102/104 or Physics 192/194.
Select one course in Art, Dance, Music or Theatre.
Technical electives should be selected by students in consultation with their advisors. Three hours must be selected from Industrial Technology and an additional 3 hours from Computer Science, Industrial Technology, Management, Mathematics, or Physical Science. No 100-level course will be accepted

without approval of the Department Head. †A "C" (2.0 minimum adjusted) must be earned in all major courses and technical electives.

CURRICULUM IN INDUSTRIAL TECHNOLOGY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE SUPERVISION CONCENTRATION (ACCREDITED BY NAIT)

	FIRST YEAR
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
†Industrial Technology 1113	†Industrial Technology 1123
Mathematics 1613	Mathematics 162 3
English 1013	English 1023
Biological Science4	Chemistry 1013
Sociology 101or Psychology 1013	Chemistry Laboratory 1031
Orientation 1010-1	Computer Science 1733
16-17	16
	SECOND YEAR
†Industrial Technology 2423	†Industrial Technology 2333
†Industrial Technology 2643	†Industrial Technology 256
Mathematics 165 or 241	Communication 211
English 230, 231 or 2323	Computer Science 273
Physics 191	Natural Science 4
Physics Lab 1931	Natural Colonico
16	16
10	THIRD YEAR
†Industrial Technology 2363	†Industrial Technology 3223
†Industrial Technology 302 or	†Industrial Technology 402
Occupational Safety & Health 1153	Management 351
†Industrial Technology 3513	Accounting 200
English 3223	History 101, 102, 201 or 202
Economics 201	Tilstory 101, 102, 201 of 202
15	
13	FOURTH YEAR
†Industrial Technology 3313	†Industrial Technology 4063
†Industrial Technology 4053	†Industrial Technology 308
†Industrial Technology 4073	†Industrial Technology 442
Arts ²	Echinical Elective:3
15	12
Total semester hours required	121-122
i otal semestel mours required	121-122

Orientation 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.

ASSOCIATE DEGREE PROGRAM IN INDUSTRIAL TECHNOLOGY

The Associate of Applied Science Degree program in the Department of Industrial Technology is designed to enable graduates to enter various fields of industry after completing two years of study. Graduates may also elect to continue their education in the four-year degree Manufacturing Technology Concentrations. Graduates of the two-year curriculum will be awarded the degree of Associate of Applied Science.

Select Chemistry 102/104 or Physics 192/194. Select one course in Art, Dance, Music or Theatre.

Technical electives should be selected by students in consultation with their advisors. Three hours must be selected from Industrial Technology and an additional 3 hours from Computer Science, Industrial Technology, Management, Mathematics, or Physical Science. No 100-level course will be accepted

[†]A "C" (2.0 minimum adjusted) must be earned in all major courses and technical electives.

CURRICULUM IN INDUSTRIAL TECHNOLOGY LEADING TO THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE CONSTRUCTION TECHNOLOGY CONCENTRATION (ACCREDITED BY NAIT)

	FIRST YEAR
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
English 1013	English 102 3
Mathematics 1613	Mathematics 162 3
†Industrial Technology 1113	Computer Science 173 3
†Occupational Safety & Health 115	†Construction Technology 1113
or Industrial Technology 3023	†Construction Technology 1213
†Construction Technology 1013	†Technical Elective3
Orientation 1010-1	
15-16	18
	SECOND YEAR
Physics 1913	Chemistry 1013
Physics Laboratory 1931	Chemistry Lab 1031
Communication 211 or 2153	†Industrial Technology 291 or 2923
Psychology 101 or Sociology 101 ² 3	†Technical Elective6
†Construction Technology 2013	†Construction Technology 2713
†Technical Elective3	•
16	16
Total semester hours required	65-66

Orientation 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.

Technical electives must be selected by students in consultation with their advisors.

*Social/Behavioral Sciences course must be selected by students in consultation with their advisors. †A grade of "C" must be earned in all major courses; a cumulative GPA of 2.0 is required to graduate.

CURRICULUM IN INDUSTRIAL TECHNOLOGY LEADING TO THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE DESIGN DRAFTER TECHNOLOGY CONCENTRATION (ACCREDITED BY NAIT)

	FIRST YEAR
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
English 1013	English 1023
Mathematics 1613	Mathematics 1623
†Industrial Technology 1113	Computer Science 1733
†Occupational Safety & Health 1153	†Industrial Technology 1123
or Industrial Technology 302	†Industrial Technology 2153
Psychology 101 or Sociology 1013	†Technical Elective ²
Orientation 1010-1	
15-16	18
	SECOND YEAR
Physics 1913	Chemistry 101
Physics Laboratory 1931	Chemistry Lab 1031
Communication 211 or 2153	†Design Drafter Technology 2113
†Design Drafter Technology 113 or 1143	†Industrial Technology 291 or 2923
†Industrial Technology 2163	†Technical Elective ² 6
†Technical Elective ² 3	
16	16
Total semester hours required	65-66

¹Social/Behavioral Sciences course must be selected by students in consultation with their advisors.

²Technical electives must be selected by students in consultation with their advisors.

[†]A grade of "C" must be earned in all major courses; a cumulative GPA of 2.0 is required to graduate.

CURRICULUM IN INDUSTRIAL TECHNOLOGY LEADING TO THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE OCCUPATIONAL SAFTY AND HEALTH CONCENTRATION (ACCREDITED BY NAIT)

	FIRST YEAR
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
English 1013	English 102 3
Mathematics 1613	Mathematics 162 3
†Industrial Technology 1113	Computer Science 1733
†Occupational Safety & Health 115	†Occupational Safety & Health 1213
or Industrial Technology 3023	†Occupational Safety & Health 1223
†Occupational Safety & Health 1203	†Technical Elective3
Orientation 1010-1	
15-16	18
	SECOND YEAR
Physics 1913	Chemistry 101 3
Physics Laboratory 1931	Chemistry Lab 1031
Communication 211 or 2153	†Industrial Technology 291 or 292 3
Psychology 101 or Sociology 101 ² 3	†Occupational Safety & Health 2213
†Occupational Safety & Health 1233	†Technical Elective 6
†Technical Elective3	
16	16
Total semester hours required	65-66

Orientation 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.

CURRICULUM IN INDUSTRIAL TECHNOLOGY LEADING TO THE DEGREE OF ASSOCIATE OF APPLIED SCIENCE SUPERVISION CONCENTRATION (ACCREDITED BY NAIT)

		FIRST YEAR	
FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
English 101	3	English 102	3
Mathematics 161		Mathematics 162	
†Industrial Technology 111	3	Computer Science 173	3
Psychology 101 or Sociology 101	3	†Industrial Technology 112	3
†Occupational Safety & Health 115		†Industrial Technology 242	3
or Industrial Technology 302	3	†Technical Elective ²	3
Orientation 101	0-1		
	15-16		18
		SECOND YEAR	
Physics 191	3	Chemistry 101	3
Physics Laboratory 193		Chemistry Lab 103	
Communication 211 or 215	3	†Industrial Technology 264	3
†Industrial Technology 233	3	†Industrial Technology 291 or 292	3
†Industrial Technology 256	3	†Technical Elective	6
†Technical Elective ²	3		
	16		16
Total semester hours required			65-66

Technical electives must be selected by students in consultation with their advisors.

^{*}Social/Behavioral Sciences course must be selected by students in consultation with their advisors. †A grade of "C" must be earned in all major courses; a cumulative GPA of 2.0 is required to graduate.

Social/Behavioral Sciences course must be selected by students in consultation with their advisors.
Technical electives must be selected by students in consultation with their advisors.

[†]A grade of "C" must be earned in all major courses; a cumulative GPA of 2.0 is required to graduate.