

# DEPARTMENT OF INDUSTRIAL TECHNOLOGY

## MANUFACTURING TECHNOLOGY SPECIALTIES

Students may elect to study one of the following manufacturing technology specialty areas. Upon satisfactory completion of the Industrial Technology core curriculum and the specialty area, the student will be awarded a Bachelor of Science degree. The Industrial Technology program at Southeastern Louisiana University is fully accredited by the National Association of Industrial Technology (NAIT).

### Supervision (18 Semester Hours)

- IT 306 - Work Methods and Measurements
- IT 402 - Industrial Supervision
- IT 407 - Statistical Quality Assurance
- IT 408 - Production Planning and Control
- IT 442 - Computer-Aided Manufacturing
- IT 444 - Industrial Robotics

### Automated Systems (18 Semester Hours)

- IT 215 - Computer-Aided Drafting
- IT 306 - Work Methods and Measurements
- IT 331 - Microcomputer Hardware
- IT 407 - Statistical Quality Assurance
- IT 442 - Computer-Aided Manufacturing
- IT 444 - Industrial Robotics

### Drafting/Design (18 Semester Hours)

- IT 215 - Computer-Aided Drafting
- IT 216 - Advanced Computer-Aided Drafting
- IT 311 - Industrial Design
- 9 hours to be selected from the following:
- DDT 113 - Architectural Drafting
- DDT 114 - Technical Illustration
- DDT 211 - Piping Drafting
- DDT 212 - Machine Drafting and Design

Industrial Internship (18 Semester Hours)

- IT 306 - Work Methods and Measurements
- IT 391 - Industrial Internship (12 semester hours required)
- IT Elective

MAJOR

A minimum of 33 hours of required I.T. courses, 18 hours of I.T. Specialty 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.

## CURRICULUM IN INDUSTRIAL TECHNOLOGY

### Leading to the Degree of Bachelor of Science

(ACCREDITED BY NAIT)

FIRST SEMESTER	FIRST YEAR S.H.	SECOND SEMESTER	S.
Industrial Technology 111	3	Industrial Technology 112	
Mathematics 161	3	Mathematics 162	
English 101	3	English 102	
Biological Science	4	Chemistry 101	
Sociology 101 or Psychology 101	3	Chemistry Laboratory 103	
Orientation 101	<u>0-1</u>	Computer Science 161	_____
			_____

16-17

16

## SECOND YEAR

?Industrial Technology 242 3	3	?Industrial Technology 233
?Industrial Technology 264 3	3	?Industrial Technology 256
Mathematics 165 or 241 3	3	Communication 211
English 230, 231 or 232 3	3	Computer Science <sup>1</sup>
Physics 191 4	3	Natural Science <sup>2</sup>
Physics Lab 193 <u>1</u>	—	—
	16	

16

## THIRD YEAR

?Industrial Technology 236 3	3	?Manufacturing Technology Specialty
?Industrial Technology 302 3	3	?Industrial Technology 322
?Industrial Technology 351 3	3	?Manufacturing Technology Specialty
?Manufacturing Technology Specialty 3	3	Accounting 211
Economics 201 3	3	History 101, 102, 201 or 202
<u>3</u>	—	—
	15	

15

## FOURTH YEAR

?Manufacturing 3		?Industrial Technology 304
Technology Specialty 3	3	?Manufacturing Technology Specialty
?Technical Elective <sup>3</sup> 3	3	?Manufacturing Technology Specialty
English 322 3	3	
Arts <sup>4</sup> 3	3	

Management 351	<u>3</u>	?Technical Elective <sup>3</sup>	<u>      </u>
<u>3</u>			
	15		
12			

Total semester hours required.....121-122

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

<sup>1</sup>Select any 200 level Computer Science course.

<sup>2</sup>Select Chemistry 102/104 or Physics 192/194.

<sup>3</sup>Technical electives should be selected by students in consultation with their advisors. Three hours must be selected from Industrial Technology

and an additional 6 hours from Computer Science, Design Drafter Technology, Industrial Technology, Management, Mathematics, Occupational

Safety and Health, or Physical Science. No 100-level course will be accepted without approval of the Department Head.

<sup>4</sup>Select one course in Art, Dance, Music or Theatre.

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

## **ASSOCIATE DEGREE PROGRAMS IN INDUSTRIAL TECHNOLOGY DESIGN DRAFTER TECHNOLOGY CONCENTRATION**

The Concentration in Design Drafter Technology curriculum is designed to enable graduates to enter the drafting field after completing two years of study. Graduates may also elect to continue their education in the four-year degree Manufacturing Technology Specialties. Graduates of the two-year curriculum will be awarded an Associate Degree in Applied Science. A minimum of 24 hours of required I.T. courses and 12 hours of D.D.T. Specialty courses are required for degree completion.

## **CURRICULUM IN INDUSTRIAL TECHNOLOGY**

# Leading to the Associate Degree in Applied Science

## Concentration in Design Drafter Technology

FIRST SEMESTER	FIRST YEAR		S.
H.	S.H.	SECOND SEMESTER	
English 101	3	English 102	
3			
Mathematics 161	3	Mathematics 162	
3			
?Industrial Technology 111	3	?Industrial Technology 112	
3			
Sociology 101	3	?Industrial Technology 215	
3			
Computer Science 110 or 161 <sup>1</sup>	3	?Industrial Technology 242	
3			
Orientation 101	<u>0-1</u>	Accounting 211	<u>      </u>
<u>3</u>			
	15-16		
18			

FIRST SEMESTER	SECOND YEAR		S.
H.	S.H.	SECOND SEMESTER	
Physics 191	3	Communication 211	
3			
Physics Laboratory 193	1	Management (200 level)	
3			
?Industrial Technology 216	3	?Design Drafter Technology 212	
3			
?Design Drafter Technology 114	3	?Industrial Technology 311	
3			
?Design Drafter Technology 211	3	?Design Drafter	
?Industrial		Technology Elective	
3			
Technology 256 or 264	<u>      </u>		
<u>3</u>			
	16		
15			

Total semester hours required.....64-65

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

<sup>1</sup>Computer Science 161 is required in the four-year Industrial Technology degree program.

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

## OCCUPATIONAL SAFETY AND HEALTH CONCENTRATION

The concentration in Occupational Safety and Health curriculum is designed to enable graduates to enter the field of occupational safety and health after completing two years of study. The curriculum conforms to standards promulgated by the American Society of Safety Engineers (ASSE) for associate degree programs. Graduates of the two-year curriculum will be awarded an Associate Degree in Applied Science. A minimum of 27 hours of Occupational Safety and Health coursework is required in this degree program.

## CURRICULUM IN INDUSTRIAL TECHNOLOGY

Leading to the Associate Degree in Applied Science

Concentration in Occupational Safety and Health

	FIRST YEAR	
FIRST SEMESTER	S.H.	SECOND SEMESTER
S.H.		
English 101	3	English
102	3	
Mathematics 161	3	Mathematics
162	3	
?Occupational		?Occupational

Safety & Health 115	3	Safety & Health
120	3	
Zoology or Biology	4	?Occupational Safety & Health
121 3		
Computer Science 110	3	Psychology
101	3	
Orientation 101	<u>0-1</u>	Communication
211	<u>3</u>	
	16-17	
18		

SECOND YEAR

FIRST SEMESTER	S.H.	SECOND SEMESTER
S.H.		
Chemistry 101	3	Physics
191	3	
Chemistry Lab 103	1	Physics Lab
193	1	
Mathematics 241	3	?Occupational Safety & Health
?Industrial		124, 125, or
221	3	
Technology 242 or 291	3	?Occupational Safety & Health
?Occupational		124, 125, or
221	3	
Safety & Health 122	3	?Occupational Safety &
Health		
?Occupational		223 or
224	3	
Safety & Health 123	3	?Occupational Safety
		& Health
Elect.	<u>3</u>	
	16	
16		

Total semester hours required.....66-67

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

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?A grade of "C" or better is required in all major courses; an overall GPA of 2.0 is required to graduate.

## PROCESS TECHNOLOGY CONCENTRATION

The concentration in Process Technology is designed to enable graduates to be employed in industry as process technicians. The curriculum conforms to guidelines promulgated by the American Chemical Society and the Louisiana Chemical Society. Graduates of the two-year curriculum will be awarded an Associate Degree of Applied Science. A minimum of 25 hours of Process Technology coursework is required in this degree program.

## CURRICULUM IN INDUSTRIAL TECHNOLOGY

Leading to the Associate Degree in Applied Science

Concentration in Process Technology

		FIRST YEAR		
FIRST SEMESTER	S.H.	SECOND SEMESTER		S.
H.				
Computer Science 110	3	Chemistry 101		
3				
English 101	3	Chemistry Lab 103		
1				
Mathematics 161	3	English 102		
3				
?Process Technology 101	3	Mathematics 162		
3				
?Process Technology 131	3	?Process Technology 132		
3				
Orientation 101	<u>0-1</u>	?Process Technology 161		<u>    </u>
<u>3</u>				
	15-16			
16				

## SECOND YEAR



FIRST SEMESTER	S.H.	SECOND SEMESTER	S.
Communication 211	3	Economics 102	
3			
Physics 191	3	Technical Elective <sup>1</sup>	
3			
Physics Laboratory 193	1	?Process Technology 263	
3			
?Occupational		?Process Technology 207	
3			
Safety & Health 223	3	?Process Technology 243	
4			
?Process Technology 242	3		
?Industrial			
Technology 291 or 292	—		
3			
	16	—	
16			
Total semester hours required.....			63-64

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

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1Technical electives must be selected by students in consultation with their advisors from related areas such as Chemistry, Construction Technology, Design Drafter Technology, Industrial Technology or Occupational Safety and Health.

?A grade of ?C? or better is required in all major courses; an overall GPA of 2.0 is required to graduate.

*Press your **BACK** button to return to the Departmental Listing.*

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