DEPARTMENT OF COMPUTER SCIENCE AND INDUSTRIAL TECHNOLOGY

COMPUTER SCIENCE

The Department of Computer Science and Industrial Technology offers a four-year program leading to the Bachelor of Science degree in Computer Science. The program is accredited by the Computing Accreditation Commission ABET, 111 Market Place Suite 1050, Baltimore, MD 21202-4012--telephone 410-347-7700. This program is designed to provide the foundation necessary for computer science graduates to succeed in the computing profession as well as in graduate school.

The department also offers courses in computing applications designed to meet the needs of students in other disciplines.

MAJORS

Students wishing to major, or co-major, in Computer Science must complete following:

- 1. Forty-three or more semester hours of Computer Science course work as specified in the curriculum, below,
- 2. Six or more semester hours of mathematics course work, as specified in the curriculum, below,
- 3. Twelve or more semester hours of science course work, as specified in the curriculum, below, and
- 4. Thirty or more semester hours of broad, general education course work.

In addition, students must complete a departmentally specified, comprehensive computer science examination in their final semester.

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

A Computer Science minor consists of the following eighteen semester hours of coursework in Computer Science: CMPS 161, 257, 280, either 262, 285, or 293, and two 300- or 400-level computer science electives, which must be approved by the department head.

An Applied Computing minor consists of eighteen semester hours of coursework in Computer Science: twelve credits from CMPS 120, 225, 233, 234, 235, and 262, and six credits from CMPS 309, 335, and 409.

CURRICULUM IN COMPUTER SCIENCE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE INFORMATION SYSTEMS CONCENTRATION

FIRST YEAR FIRST SEMESTER SECOND SEMESTER S.H. †Mathematics 2005 †Mathematics 2015 English 101......3 English 102......3 †Computer Science 257³......3 History Elective3 Southeastern 1010-3 14 - 1714 SECOND YEAR †Computer Science 3753 †Computer Science 1203 †Computer Science 2853 †Computer Science 3903 Social Science Elective²......3 †Computer Science 2933 Communications 2113 English 230, 231, or 2323

Science Sequence I ⁵ 4	Science Sequence II ⁵ 4
16	16
	THIRD YEAR
†Computer Science 4013	†Computer Science 3833
†Computer Science Elective (300-400 level)3	†Computer Science 4313
English 3223	Economics 201 or 2023
Accounting 200	Art/Music Elective ¹ 3
Biology Elective ⁵ 4	Elective3
16	15
	FOURTH YEAR
†Computer Science 4113	†Computer Science 4393
†Computer Science Elective(300-400 level)3	†Computer Science 4811
Arts/Social Science Elective ^{1,2} 3	Mathematics Elective ⁴ 3
Finance 381	Management 3623
Mathematics 380	Electives4
15	14
Total semester hours required	120-123

Note: Because Biology 151 and 153 satisfy the Biological Science requirement, students taking biology as their science sequence must take a physics or chemistry course, with a lab, to replace it.

Information Systems Concentration Electives

†Computer Science 120	3 hours
†Computer Science 383	
†Computer Science 439	3 hours
Accounting 200	
Management 362	
Finance 381	

CURRICULUM IN COMPUTER SCIENCE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE INFORMATION TECHNOLOGY CONCENTRATION

FIRST YEAR FIRST SEMESTER SECOND SEMESTER †Mathematics 1655 †Mathematics 2413 English 101......3 English 102......3 History Elective3 †Computer Science 257³......3 †Computer Science 2803 †Computer Science 1613 Arts/Social Sci Elective^{1,2}......3 Arts/Music Elective¹......3 Southeastern 1010-3 15 - 18SECOND YEAR †Computer Science 2853 †Computer Science 2943 †Computer Science 2933 †Computer Science 3753

¹Choose one from the following: Visual Arts, Music, Dance, or Theatre

²Choose one from the following: Anthropology, Geography, Psychology, Political Science, or Sociology.

³Mathematics 223 may be substituted for Computer Science 257

⁴Choose from Mathematics 312, 350, 360, 370, 410, or 414

⁵Science sequence: Choose from (Physics 221/223 & 222/224) or (Biology 151/152 & 153/154) or (Chemistry 121/123 & 122/124)

[†]Students must earn a grade of "C" or better in all Computer Science courses and in Math 200 and 201.

English 230, 231, or 2323	†Computer Science 3903
Communications 211	English 3223
Science Sequence I ⁵ 4	Social Science Elective ² 3
16	15
	THIRD YEAR
†Computer Science 3093	†Computer Science 3833
†Computer Science 315	†Computer Science 4313
†Computer Science 319	Biology Elective ⁵ 4
Science Sequence II ⁵ 4	*Elective6
*Elective3	
16	16
	FOURTH YEAR
†Computer Science 4113	†Computer Science 4393
†Computer Science 420	†Computer Science 4811
^a †Computer Science ⁴ 3	b†Computer Science ⁴ 3
b†Computer Science ⁴ 3	^x Elective6
Elective	
Total semester hours required	121-124

†Students must earn a grade of "C" or better in all Computer Science courses and in Math 200 and 201.

Note: Because Biology 151 and 153 satisfy the Biological Science requirement, students taking biology as their science sequence must take a physics or chemistry course, with a lab, to replace it.

CURRICULUM IN COMPUTER SCIENCE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE SCIENCE CONCENTRATION

FIRST YEAR

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
†Mathematics 200	5	†Mathematics 201	5
English 101	3	English 102	3
History Elective	3	†Computer Science 257 ³	3
†Computer Science 161	3	†Computer Science 280	
Southeastern 101	0-3		
	14 - 17		14
		SECOND YEAR	
†Computer Science 285		†Computer Science 375	
†Computer Science 293	3	†Computer Science 390	3
Communications 211		Social Science Elective ²	
Economics 201 or 202	3	English 230, 231, or 232	3
Science Sequence I ⁵	4	Science Sequence II ⁵	4

^a Must be selected for CMPS 320, 389, 394, 409

^b Must be selected for CMPS 391, 393, 401, 432, 441, 443, 479

^x Must be selected to meet "application area" requirement (a minor or approved 18 hour minimum customize curriculum).

¹Choose one from the following: Visual Arts, Music, Dance, or Theatre

²Choose one from the following: Anthropology, Geography, Psychology, Political Science, or Sociology.

³Mathematics 223 may be substituted for Computer Science 257

⁴Students are required to take additional mathematics if they wish to pursue some Computer Science electives.

⁵Science sequence: Choose from (Physics 221/223 & 222/224) or (Biology 151/152 & 153/154) or (Chemistry 121/123 & 122/124). Note that some of these sequences require additional math prerequisites.

16 16

	THIRD YEAR
†Computer Science 4013	†Computer Science 4313
†Computer Science Elective(300-400 level)3	†Computer Science Elective(300-400 level)3
English 3223	Mathematics Elective ⁴ 3
Mathematics 380	Art/Music Elective ¹ 3
Biology Elective ⁵ 4	Elective3
16	15
	FOURTH YEAR
†Computer Science 3913	†Computer Science 4793
†Computer Science 4113	†Computer Science 4811
Arts/Social Science Elective ^{1,2} 3	Mathematics Elective ⁴ 3
Elective	Phys/Biol Science Elective ⁵ 4
Elective	Electives4
15	15
Total semester hours required	121-124

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

Note: Because Biology 151 and 153 satisfy the Biological Science requirement, students taking biology as their science sequence must take a physics or chemistry course, with a lab, to replace it.

SCIENCE CONCENTRATION ELECTIVES

†Computer Science 391	3 hours
†Computer Science 479	3 hours
†Second mathematics elective	3 hours
Additional Physical or Biological Science	4 hours
Ganaral Flactives	6 hours

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

¹Choose one from the following: Visual Arts, Music, Dance, or Theatre

²Choose one from the following: Anthropology, Geography, Psychology, Political Science, or Sociology.

³Mathematics 223 may be substituted for Computer Science 257

⁴Choose from Mathematics 312, 350, 360, 370, 410, or 414

⁵Science sequence: Choose from (Physics 221/223 & 222/224) or (Biology 151/152 & 153/154) or (Chemistry 121/123 & 122/124)

[†]Students must earn a grade of "C" or better in all Computer Science courses and in Math 200 and 201.

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

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 Computer Science and 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 36 hours of required I.T. courses, 15 hours of I.T. Concentration Courses, and an additional 6 hours of I.T. electives are required for a Bachelor of Science degree in Industrial Technology for a total of 57 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

IT 242 – Materials and Processes	. 3 semester hours
IT 264 – Industrial Fluid Power	. 3 semester hours
IT 302 - Loss Prevention, OSHE 111 - Intro to Safety &	
Health 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

	TIKSI I EAK
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
†Industrial Technology 1113	†Industrial Technology 1123
Mathematics 161 ⁴	Mathematics 1623
English 1013	English 1023
Biological Science4	Chemistry 101
Sociology 101or Psychology 1013	Chemistry Laboratory 1031
Southeastern 1010-3	Computer Science 1733
16-19	16
	SECOND YEAR
†Industrial Technology 2423	†Industrial Technology 2333
†Industrial Technology 264	†Industrial Technology 2563
Mathematics 165 or 241	Communication 2113
English 230, 231 or 2323	Computer Science 2733
Physics 191	Physical Science ¹ 4
Physics Lab 1931	•
	
16	16
	THIRD YEAR
†Industrial Technology 2363	†Industrial Technology 2153
†Industrial Technology 302 or	†Industrial Technology 3223
Occupational Safety, Health & Enviro 1113	†Industrial Technology 3313
†Industrial Technology 3513	Accounting 2003

English 3223	History 101, 102, 201 or 2023
Economics 201	
15	15
	FOURTH YEAR
†Industrial Technology 4053	†Industrial Technology 4063
†Industrial Technology 4423	†Industrial Technology 4073
Management 351	†Industrial Technology 4443
Arts ²	†Technical Elective ^s 3
†Technical Elective ³	
15	12
Total semester hours required	121-124

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 161 ⁴	Mathematics 162
English 1013	English 1023
Biological Science4	Chemistry 101
Sociology 101or Psychology 1013	Chemistry Laboratory 1031
Southeastern 1010-3	Computer Science 1733
16-19	16
	G **
	SECOND YEAR
†Industrial Technology 2423	†Industrial Technology 2333
†Industrial Technology 2643	†Industrial Technology 2563
Mathematics 165 or 2413	Communication 2113
English 230, 231 or 2323	Computer Science 2733
Physics 1913	Physical Science ¹ 4
Physics Lab 1931	
	_
16	16
	THIRD YEAR
†Industrial Technology 2363	†Industrial Technology 2153
†Industrial Technology 302 or Occupational	†Industrial Technology 3223
Safety, Health & Enviro 1113	Management 3513
†Industrial Technology 3513	Accounting 2003
English 3223	History 101, 102, 201 or 2023

¹Select Chemistry 102/104 or Physics 192/194.

²Select one course in Art, Dance, Music or Theatre.

³Technical 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.

⁴Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161, which will increase 2 credit hours the total number of hours required for the degree.

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

Economics 201	
15	
	FOURTH YEAR
†DDT 113, 114, 211, 212, 215, 218, or	†DDT 113, 114, 211, 212, 215, 218, or
Industrial Technology 2166	Industrial Technology 2163
†Industrial Technology 4053	†Industrial Technology 3113
Arts ²	†Industrial Technology 4063
†Technical Elective 3	†Technical Elective
15	12
Total semester hours required	121-124

†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 SECOND SEMESTER †Industrial Technology 1113 †Industrial Technology 1123 Biological Science4 Chemistry 1013 Sociology 101or Psychology 1013 Chemistry Laboratory 1031 Southeastern 1010-3 Computer Science 1733 16-19 SECOND YEAR †Industrial Technology 2423 †Industrial Technology 2333 †Industrial Technology 2563 Communication 2113 English 230, 231 or 2323 Computer Science 2733 Physical Science¹4 Physics Lab 1931 16 16 THIRD YEAR †Industrial Technology 2363 †Industrial Technology 3223 †Industrial Technology 302 or..... †Industrial Technology Elective3 Occupational Safety, Health & Enviro 111 3 Management 3513 †Industrial Technology 3513 English 322......3 History 101, 102, 201 or 2023

¹Select Chemistry 102/104 or Physics 192/194.

² Select one course in Art, Dance, Music or Theatre.

³Technical 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.

⁴Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161, which will increase 2 credit hours the total number of hours required for the degree.

Economics 201	
15	15
	FOURTH YEAR
†Industrial Technology 3916	†Industrial Technology 3916
†Industrial Technology 405	†Industrial Technology 4063
Arts ²	† Technical Elective ³ 3
†Technical Elective ³	
	
15	12
Total semester hours required	121-124

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

LEADING TO THE 1	I IN INDUSTRIAL TECHNOLOGY DEGREE OF BACHELOR OF SCIENCE ENTRATION (ACCREDITED BY NAIT)
	FIRST YEAR
FIRST SEMESTER S.H.	SECOND SEMESTER S.H.
†Industrial Technology 1113	†Industrial Technology 1123
Mathematics 161 ⁴	Mathematics 162
English 1013	English 1023
Biological Science4	Chemistry 1013
Sociology 101or Psychology 1013	Chemistry Laboratory 1031
Southeastern 1010-3	Computer Science 1733
16-19	16
	SECOND YEAR
†Industrial Technology 2423	†Industrial Technology 2333
†Industrial Technology 2643	†Industrial Technology 2563
Mathematics 165 or 2413	Communication 2113
English 230, 231 or 2323	Computer Science 2733
Physics 1913	Physical Science ¹ ,4
Physics Lab 1931	
16	16
	THIRD YEAR
†Industrial Technology 2363	†Industrial Technology 3223
†Industrial Technology 302 or	†Industrial Technology 4023
Occupational Safety, Health & Enviro 1113	Management 3513
†Industrial Technology 3513	Accounting 2003
English 3223	History 101, 102, 201 or 2023
Economics 201	
15	EOLIDEH VEAD
	FOURTH YEAR
†Industrial Technology 331	†Industrial Technology 406
†Industrial Technology 405	†Industrial Technology 308
†Industrial Technology 4073	†Industrial Technology 4423

¹Select Chemistry 102/104 or Physics 192/194.

²Select one course in Art, Dance, Music or Theatre.

³Technical 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.

⁴Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161, which will increase 2 credit hours the total number of hours required for the degree.

Arts ²	†Technical Elective ³ 3
†Technical Elective ³	
	12
Total semester hours required	121-124

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

CURRICULUM IN OCCUPATIONAL SAFETY, HEALTH AND ENVIRONMENT LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

The Bachelor of Science Degree program in Occupational Safety, Health, and Environment is designed to enable graduates to enter business and industry as safety, industrial hygiene and environmental professionals.

	FIRST YEAR	
FIRST SEMESTER S.H.	SECOND SEMESTER	S.H.
English 101	English 102	3
Mathematics 161 ⁴	Mathematics 162	3
†OSHE 1113	†OSHE 112	3
General Biology 1513	†OSHE 121	3
Biology Lab 152	Psychology 101	1
Computer Science 110 or 1733		
Southeastern 1010-3		
16-19		15
	SECOND YEAR	
Chemistry 101	Physics 191	3
Chemistry Lab 1031	Physics Lab 193	1
Mathematics 241	Chemistry 261	3
Zoology 2414	Communication 211	3
†OSHE 2413	†OSHE 251	3
†OSHE 261	†OSHE 242	3
17		16
	THIRD YEAR	
Economics 201	Physical Science ¹	4
English 230 or 231 or 2323	History 101 or 102 or 201 or 202	3
†OSHE 2313	†Industrial Technology 242	3
†OSHE 2813	†Industrial Technology 322	3
†OSHE 282		
15		13
	FOURTH YEAR	
†OSHE 3713	†OSHE 321	3
Management 351	†OSHE 324	3
Arts ² 3	†OSHE 341	3
†Professional Elective ³ 3	†Industrial Technology 391 ³	3
†Professional Elective ³ 3	†Professional Elective ³	
15		15

¹Select Chemistry 102/104 or Physics 192/194.

²Select one course in Art, Dance, Music or Theatre.

³Technical 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.

⁴Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161, which will increase 2 credit hours the total number of hours required for the degree.

ASSOCIATE DEGREE PROGRAM IN INDUSTRIAL TECHNOLOGY

The Associate of Applied Science Degree program in the Department of Computer Science and 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.

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

FIRST YEAR SECOND SEMESTER FIRST SEMESTER S.H. S.H. English 1023 Mathematics 1623 †Industrial Technology 1113 † Occupational Safety, Health & Enviro †Construction Technology 1113 111or Industrial Technology 3023 †Construction Technology 1213 †Construction Technology 101......3 Southeastern 1010-3 15-18 18 SECOND YEAR Physics Laboratory 1931 Chemistry Lab 1031 †Industrial Technology 291 or 2923 †Technical Elective¹6 Psychology 101 or Sociology 101²......3 †Construction Technology 2013 †Construction Technology 2713 16 16 Total semester hours required 65-68

Southeastern 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 DESIGN DRAFTER TECHNOLOGY CONCENTRATION (ACCREDITED BY NAIT)

FIRST YEAR FIRST SEMESTER S.H. SECOND SEMESTER S.H. English 101 3 English 102 3 Mathematics 161³ 3 Mathematics 162 3 †Industrial Technology 111 3 Computer Science 173 3 † Occupational Safety, Health & Enviro 111 3 †Industrial Technology 112 3

¹Select Chemistry 102/104 or Physics 192/194.

²Select one course in Art, Dance, Music or Theatre.

³Professional electives should be selected in consultation with advisors.

⁴Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161, which will increase 2 credit hours the total number of hours required for the degree.

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

¹Technical electives must be selected by students in consultation with their advisors.

²Social/Behavioral Sciences course must be selected by students in consultation with their advisors.

³Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161.

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

or Industrial Technology 302	†Industrial Technology 2153
Psychology 101 or Sociology 101 ¹ 3	†Technical Elective ² 3
Southeastern 1010-3	
15-18	18
	SECOND YEAR
Physics 1913	Chemistry 1013
Physics Laboratory 1931	Chemistry Lab 1031
Communication 211 or 215	†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	
16	16
Total semester hours required	65-68

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

Occornitional bar E11, HEA	EIII MIND ENVIRONMENT (MEN	CREDITED
	FIRST YEAR	
FIRST SEMESTER S.H.	SECOND SEMESTER	S.H.
English 1013	English 102	3
Mathematics 161 ¹	Mathematics 162	3
†OSHE 1113	†OSHE 112	3
General Biology 1513	†OSHE 121	3
Biology 1521	Psychology 101	3
Computer Science 110 or 1733		
Southeastern 1010-1		
16-19		15
	C	
	SECOND YEAR	
Chemistry 101	Physics 191	3
Chemistry Laboratory 1031	Physics Lab 193	1
Mathematics 241	Chemistry 261	3
Zoology 241 ² 4	Communication 211	3
†OSHE 2413	†OSHE 251	3
†OSHE 2613	†OSHE 242	3
17		16
Total semester hours required		64-67

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

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.

³Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161, which will increase 2 credit hours the total number of hours required for the degree.

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

¹Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161, which will increase 2 credit hours the total number of hours required for the degree.

[†]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 SUPERVISION CONCENTRATION (ACCREDITED BY NAIT)

FIRST YEAR FIRST SEMESTER S.H. SECOND SEMESTER Mathematics 1623 †Industrial Technology 1113 Computer Science 173......3 Psychology 101 or Sociology 101¹......3 †Industrial Technology 1123 † Occupational Safety, Health & Enviro 111 †Industrial Technology 2423 or Industrial Technology 3023 †Technical Elective²3 Southeastern 1010-3 15-18 18 SECOND YEAR Chemistry 1013 Chemistry Lab 1031 Physics Laboratory 1931 †Industrial Technology 2643 †Industrial Technology 291 or 2923 †Industrial Technology 2563 †Technical Elective 6 16 16 Total semester hours required 65-68

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

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

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

³Students with an ACT Math score of 20 or lower will take Math 155 (5 credit hours) in place of Math 161, which will increase 2 credit hours the total number of hours required for the degree.

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