

**Curriculum in Engineering Technology  
Leading to the Degree of Bachelor of Science  
Computer Engineering Technology Concentration**

**FIRST YEAR**

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
+ Eng. Tech. 100 (Intro. Eng Tech) .....	3	Math 200 (Calculus I) .....	5
Math 165 (Pre-Calculus with Trig) .....	3	+ Eng. Tech. 202 (Computer Applications) ..	3
Chemistry 121 (General Chemistry I) .....	3	Physics 191 (General Physics I) .....	3
Chemistry 123 (General Chemistry I Lab) .....	1	Physics 193 (General Physics I Lab) .....	1
English 101 (Freshman Composition) .....	3	+ Eng. Tech. 212 (Intro to Programming) .....	3
Southeastern 101 .....	0-3		—
	—		15

13 -16

**SECOND YEAR**

+ Eng. Tech. 213 (Electrical Circuits) .....	3	+ Eng. Tech. 226 (Electronics II) .....	3
+ Eng. Tech. 221 (Programming for Technol.) .....	3	+ Eng. Tech. 205 (Math. Methods for Eng.) .....	3
Physics 192 (General Physics II) .....	3	Computer Science 297 (Digital Logic) .....	3
Physics 194 (General Physics Lab II) .....	1	Computer Science 290 (Computer Organization) ..	3
+ Eng. Tech. 225 (Electronics I) .....	3	English 102 (Critical Reading & Writing) .....	3
Biology 151 (Gen. Biology) .....	3		—
	—		15

16

**THIRD YEAR**

Industrial Tech. 111 (Engineering Drafting) .....	3	+ Eng. Tech. 305 (Human Factors Engineering) ...	3
+ Eng. Tech. 320 (mProcessors&Interfacing) .....	3	+ Eng. Tech. 410 (Signals and Systems) .....	3
+ Eng. Tech. 390 (Engineering Economics) .....	3	Occupational Safety 111 .....	3
English 322 (Technical Writing) .....	3	History 101, 102, 201, or 202 .....	3
Music, Art, Theater, or Dance .....	3	Communication 211 .....	3
Social Sciences <sup>3</sup> .....	3	+ Eng. Tech. 241 (Strength of Materials) .....	3
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18

18

**FOURTH YEAR**

Industrial Tech. 407 (Statist. Quality Assurance) 3	3	+ Eng. Tech. 494 (Senior Design II) .....	3
+ Technical Elective I <sup>2</sup> .....	3	Social Sciences <sup>3</sup> .....	3
+ Eng. Tech. 492 (Project Management) .....	3	+ Eng. Tech. 490 (Seminar) .....	1
+ Eng. Tech. 425 (Control and Automation) .....	3	+ Technical Elective II <sup>2</sup> .....	3
+ Eng. Tech. 493 (Senior Design I) .....	2	+ Technical Elective III <sup>2</sup> .....	3
	—	English 230, 231, or 232 .....	3

14

16

**Total Semester Hours Required .....125-128**

<sup>1</sup>Southeastern 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.

<sup>2</sup>Technical electives should be selected by students in consultation with their advisor.

<sup>3</sup>Economics, Psychology, Anthropology, Sociology or Political Science.

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

**Curriculum in Engineering Technology  
Leading to the Degree of Bachelor of Science  
Industrial Engineering Technology Concentration**

**FIRST YEAR**

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
+ Eng. Tech. 100 (Intro. Eng Tech).....	3	+ Eng. Tech. 150 (Software for Data Mgmt.).....	3
Industrial Tech. 111(Engineering Drafting) .....	3	Math 200.....	5
Mathematics 165 (Pre-Calculus with Trig) .....	3	English 102.....	3
English 101.....	3	Physics 191 (General Physics I) .....	3
+ Eng. Tech. 202 (Computer Applications).....	3	Physics 193 (General I Lab) .....	1
Southeastern 101 <sup>1</sup>	0-3		—
	—		15

15-18

**SECOND YEAR**

+ Eng. Tech. 241 (Strength of Materials) .....	3	+ Eng. Tech. 283 (Manufacturing Processes).....	3
Occupational Safety 111.....	3	History 101, 102, 201, or 202 .....	3
Mathematics 241 (Statistics) .....	3	+ Eng. Tech. 213 (Electrical Circuits) .....	3
English 230, 231, or 232.....	3	English 322.....	3
Chemistry 121 (General Chemistry I) .....	3	Physics 192 (General Physics II).....	3
Chemistry 123 (General Chemistry I Lab) .....	1	Physics 194 (General Physics II Lab)	1
	—		—
	16		16

**THIRD YEAR**

+ Industrial Tech. 407 (Stat. Qual. Assurance)....	3	Industr. Tech. 308 (Prod. Planning & Control) ....	3
+ Eng. Tech. 390 (Engineering Economics).....	3	+ Eng. Tech. 305 (Human Factors Engineering) ....	3
Biology 151 .....	3	Industr. Tech. 405 (Work Meth&Measurement) ..	3
+ Eng. Tech. 357 (Auto Ident. & Data Capture)....	3	Social Science <sup>3</sup> .....	3
Communication 211 .....	3	Eng. Tech 353 (Total Quality Management) .....	3
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	15		15

**FOURTH YEAR**

Industr. Tech. 406 (Facility Planning&Design)....	3	+ Eng. Tech. 463 (Cost Estimating) .....	3
+ Eng. Tech. 492 (Project Management).....	3	+ Eng. Tech. 465 (Industr. Simul. &Modeling).....	3
Industrial Tech. 402 (Industrial Supervision).....	3	+ Eng. Tech. 490 (Seminar).....	1
Technical Elective <sup>2</sup> .....	3	+ Eng. Tech. 494 (Senior Design II).....	2
+ Eng. Tech. 493 (Senior Design I).....	2	Technical Elective <sup>2</sup> .....	3
Social Science <sup>3</sup> .....	3	Music, Art, Theater, or Dance .....	3
	—		—
	17		15

**Total Semester Hours Required**

..... 12

**5-128**

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**Curriculum in Engineering Technology  
Leading to the Degree of Bachelor of Science  
Construction Engineering Technology Concentration**

FIRST YEAR

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Industr. Tech. 111(Engineering Drafting).....	3	Social Science <sup>3</sup> .....	3
+ Eng. Tech. 100 (Intro. Eng Tech) .....	3	+ Eng. Tech. 132 (Construction Materials).....	3
+ Eng. Tech. 202 (Computer Applications) .....	3	Mathematics 200 .....	5
Mathematics 165 (Pre-Calculus with Trig).....	3	English 102 .....	3
English 101 .....	3	Physics 191 (General Physics I).....	3
Southeastern 101 <sup>1</sup> .....	0-3	Physics 193 (General I Lab).....	1
	15-18		18

SECOND YEAR

+ Eng. Tech. 241 (Strength of Materials).....	3	+ Eng. Tech. 213 (Electrical Circuits).....	3
+ Eng. Tech. 231 (Surveying I).....	3	+ Eng. Tech. 232 (Surveying II) .....	3
Biology 151.....	3	Communication 211 .....	3
English 230, 231 or 232 .....	3	+ Eng Tech. 271 (Engineering Statics) .....	3
Chemistry 121 (General Chemistry I).....	3	Physics 192 (General Physics II).....	3
Chemistry 123 (General Chemistry I Lab).....	1	Physics 194 (General Physics II Lab) .....	1
	16		16

THIRD YEAR

+ Eng. Tech. 331 (Construction Estimating I) .....	3	+ Eng. Tech. 332 (Construction Estimating II) .....	3
Occupational Safety 111 .....	3	+ Eng. Tech. 492 (Project Management) .....	3
+ Eng. Tech. 234 (Concrete & Masonry Design).3	3	+ Eng. Tech. 305 (Human Factors Engineering)...	3
+ Eng. Tech. 244 (Const. Regulns Contr. Specs).3	3	+ Eng. Tech. 336 (Steel Design) .....	3
English 322 .....	3	History 101, 102, 201or 202 .....	3
	15		15

FOURTH YEAR

+ Eng. Tech. 443 (Foundations & Soil Mech.) ....	3	Social Science <sup>3</sup> .....	3
+ Eng. Tech. 441 (Constrn. Plang.&Scheduling).3	3	+ Eng. Tech. 494 (Senior Design I).....	3
+ Eng. Tech. 390 (Engineering Economics) .....	3	+ Eng. Tech. 490 (Seminar) .....	1
Technical Elective <sup>2</sup> .....	3	Technical Elective <sup>2</sup> .....	3
Industrial Tech. 407 (Statist. Quality Assurance) 3	3	Music, Art, Theater, or Dance.....	3
+ Eng. Tech. 493 (Senior Design I) .....	2		13
	17		

**Total Semester Hours Required**

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**125-128**

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<sup>3</sup>Economics, Psychology, Anthropology, Sociology or Political Science.

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**Curriculum in Engineering Technology  
Leading to the Degree of Bachelor of Science  
Mechanical Engineering Technology Concentration**

**FIRST YEAR**

<b>FIRST SEMESTER</b>	S.H.	<b>SECOND SEMESTER</b>	S.H.
+ Eng. Tech. 100 (Intro. Eng Tech) .....	3	Industrial Technology 111(Engineering Drafting) ..	3
Math 165 (Pre-Calculus with Trig) .....	3	Math 200 (Calculus I) .....	5
Chemistry 121 (General Chemistry) .....	3	Physics 191 (General Physics I).....	3
Chemistry 123 (General Chemistry Lab) .....	1	Physics 193 (General I Lab).....	1
English 101 (Freshman Composition).....	3	+ Eng. Tech. 202 (Computer Applications) .....	3
Southeastern 101 <sup>1</sup> (Freshman Success) .....	0-3		—
	—		15
	13 -16		

**SECOND YEAR**

+ Eng. Tech. 212 (Introduction to Programming) ...	3	English 322 (Technical Writing).....	3
English 102 (Critical Read & Writing) .....	3	+ Eng. Tech. 205 (Math. Methods for Engineering)3	3
+ Eng. Tech. 241 (Strength of Materials).....	3	+ Eng. Tech. 271 (Engineering Statics) .....	3
Biology 151 (General Biology).....	3	+ Eng. Tech. 283 (Manufacturing Processes) .....	3
Physics 192 (General Physics II) .....	3	English 230, 231 or 232 .....	3
Physics 194 (General Physics II Lab) .....	1		—
	—		15
	16		

**THIRD YEAR**

+ Eng. Tech. 213 (Electrical Circuits).....	3	+ Eng. Tech. 305 (Human Factors Engineering).....	3
+ Eng. Tech. 375 (Applied Thermodynamics).....	3	+ Eng. Tech. 376 (Applied Fluid Mechanics) .....	3
+ Eng. Tech. 390 (Engineering Economics) .....	3	+ Eng. Tech. 385 (Mechanical Design).....	3
+ Eng. Tech. 381 (Engineering Materials).....	3	Industrial Technology (IT 407) .....	3
+ Eng. Tech. 371 (Engineering Dynamics).....	3	Communication 211 .....	3
	—	+ Eng. Tech. 386 (Machines and Controls).....	3
	15		—
			18

**FOURTH YEAR**

+ Eng. Tech. 478 (HVAC) .....	3	+ Eng. Tech. 490 (Seminar) .....	1
+ Eng. Tech. 492 (Project Management) .....	3	+ Eng. Tech. 494 (Senior Design II) .....	3
Technical Elective I <sup>2</sup> .....	3	Technical Elective II <sup>2</sup> .....	3
Occupational Safety 111 .....	3	History 101, 102, 201 or 202.....	3
Social Science <sup>3</sup> .....	3	Social Science <sup>3</sup> .....	3
+ Eng. Tech. 493 (Senior Design I) .....	2	Music, Art, Theater, or Dance .....	3
	—		—
	17		16

**Total Semester Hours**

**Required.....125-128**

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<sup>3</sup>Economics, Psychology, Anthropology, Sociology or Political Science.

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**Curriculum in Engineering Technology  
Leading to the Degree of Bachelor of Science  
Energy Engineering Technology Concentration**

**FIRST YEAR**

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
+ Eng. Tech. 100 (Intro. Eng Tech.....)	3	Math 200 (Calculus I) .....	5
Math 165 (Pre-Calculus with Trig .....	3	English 102 (Critical Reading & Writing) ....	3
Chemistry 121 (General Chemistry I.....)	3	Physics 191 (General Physics I).....	3
Chemistry 123 (General Chemistry I Lab.....)	1	Physics 193 (General Physics I Lab).....	1
English 101 (Freshman Composition.....)	3	+ Eng. Tech. 212 (Intro to Programming).....	3
Southeastern 101 .....	0-3		15

13 -16

**SECOND YEAR**

+ Eng. Tech. 213 (Electrical Circuits).....	3	+ Eng. Tech. 226 (Electronics II) .....	3
+ Eng. Tech. 221 (Progrrng for Technologists)..	3	+ Eng. Tech. 205 (Math. Methods for Eng.) .....	3
Physics 192 (General Physics II) .....	3	+ Eng. Tech. 361 (Solar Thermal systems).....	3
Physics 194 (General Physics Lab II) .....	1	Biology 151 (Gen. Biology).....	3
+ Eng. Tech. 225 (Electronics I).....	3	+ Eng. Tech. 202 (Computer Applications) .....	3
+ Eng. Tech. 375 (Applied Thermodynamics).....	3		15

16

**THIRD YEAR**

Industrial Tech. 111 (Engineering Drafting).....	3	+ Eng. Tech. 305 (Human Factors Engineering)...	3
+Eng. Tech. 365 (Power Electronics) .....	3	+ Eng. Tech. 363 (Photovoltaics) .....	3
+ Eng. Tech. 390 (Engineering Economics) .....	3	Occupational Safety 111 .....	3
English 322 (Technical Writing) .....	3	History 101, 102, 201, or 202.....	3
Music, Art, Theater, or Dance .....	3	Communication 211 .....	3
Social Sciences <sup>3</sup> .....	3	+ Eng. Tech. 241 (Intro. Engineering Materials) ..	3
	18		18

18

**FOURTH YEAR**

Industrial Tech. 407 (Statist. Quality Assurance)3	3	+ Eng. Tech. 494 (Senior Design II) .....	3
+ Technical Elective I <sup>2</sup> .....	3	Social Sciences <sup>3</sup> .....	3
+ Technical Elective II <sup>2</sup> .....	3	+ Eng. Tech. 490 (Seminar) .....	1
+ Eng. Tech. 492 (Project Management) .....	3	+ Eng. Tech. 431 (Power Transmission lines) .....	3
+ Eng. Tech. 493 (Senior Design I) .....	2	+ Technical Elective III <sup>2</sup> .....	3
+ Eng. Tech. 410 (Signals and Systems).....	3	English 230, 231, or 232 .....	3
	17		16

17

**Total Semester Hours Required.....128-131**

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