

## **Engineering Technology**

Engineering Technology is a profession in which knowledge of applied mathematics, natural sciences, and engineering methods gained by higher education and practice is used for the development of technological advances and for applications of existing technology to various industries. An Engineering Technology program is different from a classical engineering one in that it is devoted primarily to the utilization of available engineering techniques and methods to solve practical technological problems.

### **Engineering Technology Concentrations**

Students must elect to study one of the Engineering Technology Concentrations: Computer Engineering Technology, Construction Engineering Technology, Energy Engineering Technology, Industrial Engineering Technology, or Mechanical Engineering Technology. A Bachelor of Science degree will be awarded upon successful completion of the required course work, which includes the Engineering Technology core curriculum, the required curriculum for each individual concentration, and the relevant technical electives.

### **Major**

There are 27 credit hours of required Engineering Technology courses, 30 to 33 credit hours of concentration required courses, and an additional six to nine credit hours of technical elective courses required for the Bachelor of Science degree in Engineering Technology for a minimum of 66 hours of Engineering Technology.

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

**FIRST YEAR**

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
†Engineering Technology 100 .....	3	†Engineering Technology 202 .....	3
English 101 .....	3	English 102 .....	3
Math 165 <sup>1</sup> .....	3	Math 200 .....	5
Chemistry 121 .....	3	Physics 191 .....	3
Chemistry 123 .....	1	Physics 193 .....	1
Southeastern 101 .....	0-3		
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	13 -16		15

**SECOND YEAR**

†Engineering Technology 212 .....	3	†Engineering Technology 205 .....	3
†Engineering Technology 241 .....	3	†Engineering Technology 271 .....	3
†Industrial Technology 111 .....	3	†Engineering Technology 283 .....	3
General Biology 151 .....	3	English 322 .....	3
Biology Lab 152.....	1	English 230, 231 or 232 .....	3
Physics 192 .....	3		
Physics 194 .....	1		
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	17		15

**THIRD YEAR**

†Engineering Technology 213 .....	3	†Engineering Technology 305 .....	3
†Engineering Technology 371 .....	3	†Engineering Technology 376 .....	3
†Engineering Technology 375 .....	3	†Engineering Technology 385 .....	3
†Engineering Technology 381 .....	3	†Engineering Technology 386 .....	3
†Engineering Technology 390 .....	3	†Industrial Technology 407 .....	3
		Communication 211 .....	3
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	15		18

**FOURTH YEAR**

†Engineering Technology 478 .....	3	†Engineering Technology 490 .....	1
†Engineering Technology 492 .....	3	†Engineering Technology 494 .....	3
†Engineering Technology 493 .....	2	History 101, 102, 201 or 202.....	3
†Occupational Safety 111 .....	3	Music, Art, Theater, or Dance .....	3
Social Science <sup>2</sup> .....	3	Social Science <sup>2</sup> .....	3
†Technical Elective I <sup>3</sup> .....	3	†Technical Elective II <sup>3</sup> .....	3
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	17		16

Total Semester Hours Required..... 126-129

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

<sup>1</sup> Math 161 may be used as an elective for those students whose Math ACT score is insufficient for direct entry into Math 165. Students with an ACT Math score of 20 or lower will take Math 155 (five credit hours) in place of Math 161, which will increase two credit hours the total number of hours required for the degree.

<sup>2</sup> Economics, Psychology, Anthropology, Sociology or Political Science.

<sup>3</sup> Technical electives should be selected by students in consultation with their advisor.

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