

# Engineering Technology Associate in Applied Science

### Degree Program Mentor

For additional information regarding this degree, contact the Degree Program Mentor.



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### Program Objective

The objective of the Engineering Technology Associate in Applied Science is to prepare students to enter the workforce as an Engineering Technician.

### Requirements for Graduation

1. At least sixty-four designated semester credit hours.
2. Grade of "C" or better required in all Technical-Occupational Requirement courses.
3. Grade Point Average of 2.5 or better on Technical-Occupational Requirement courses.
4. Overall Grade Point Average of 2.0 or better.
5. Fifteen semester credit hours in attendance at SSC.
6. Completion of Graduate Exit Survey.

**Please Note:** Students who begin an Associate in Applied Science degree program are permitted to change to a transfer degree program should their goals change to include the pursuit of a four-year degree upon graduation from Seminole State.

### General Education Requirements ..... 20

GOV 1113	American National Government .....	3
HIST 1483	American History Survey to 1877 <u>or</u>	
HIST 1493	American History Survey since 1877.....	3
ENG 1113	Composition I .....	3
ENG 1213	Composition II .....	3
CAP 1103	Introduction to Computer Applications.....	3
MATH 1513	Pre-Calculus for Eng-Phys-CS.....	3
STSC 1002	Learning Strategies .....	2

### Technical-Occupational Field Support Requirements ..... 11

MATH 1613	Plane Trigonometry
PHYS 2114	General Physics I
PHYS 2224	General Physics II

### Technical-Occupational Field Requirements..... 33

BA 1603	Workplace and Cultural Competence
BA 2133	Human Relations
BA 2423	Business Ethics
ENGR 1113	Introduction to Engineering
ENGR 1123	Geometric Dimensioning and Tolerances
ENGR 1133	Manual Machining Skills
ENGR 1143	CAD-CAM
ENGR 2003	Principles of Mechanical Design
ENGR 2013	Principles of Electrical Design
ENGR 2903	Engineering Technology Internship
HUM 2333	Leadership Development through the Classics

### MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE ..... 64

**Students who want to position themselves to enter a Bachelor of Science in Engineering program once they enter the workforce should consider taking the following courses in addition to Major Field Requirements:**

MATH 2215	Calculus and Analytic Geometry I.....	5
MATH 2424	Calculus and Analytic Geometry II.....	4
MATH 2434	Calculus and Analytic Geometry III .....	4
PHYS 2211	Calculus Based Physics I.....	1
PHYS 2231	Calculus Based Physics II.....	1

### Suggested Sequence of Major Field Courses

<u>First Semester</u>	<u>Second Semester</u>	<u>Third Semester</u>	<u>Fourth Semester</u>
HUM 2333	BA 2133	BA 1603	BA 2423
MATH 1513	MATH 1613	PHYS 2114	PHYS 2224
ENGR 1113	ENGR 1133	ENGR 1143	ENGR 2013
ENGR 1123		ENGR 2003	ENGR 2903



# Engineering Technology - Associate in Applied Science

## Degree Requirements Checklist

2021-22

	<b>GENERAL EDUCATION REQUIREMENTS</b>		<b>TECHNICAL OCCUPATIONAL SUPPORT REQUIREMENTS</b>
6 hrs.	<b>Social Sciences</b> <input type="checkbox"/> GOV 1113 American National Government <input type="checkbox"/> HIST 1483 American History Survey to 1877 <b>or</b> <input type="checkbox"/> HIST 1493 American History Survey since 1877	11 hrs.	<input type="checkbox"/> MATH 1613 Plane Trigonometry <input type="checkbox"/> PHYS 2114 Physics I <input type="checkbox"/> PHYS 2224 Physics II
6 hrs.	<b>Language Arts</b> <input type="checkbox"/> ENG 1113 Principles of English Composition I <input type="checkbox"/> ENG 1213 Principles of English Composition II <b>or</b> <input type="checkbox"/> ENG 1313 Technical Report Writing	33 hrs.	<b>TECHNICAL OCCUPATIONAL REQUIREMENTS</b>
3 hrs.	<b>Computer Applications</b> <input type="checkbox"/> CAP 1103 Introduction to Microsoft Office		<input type="checkbox"/> BA 1603 Workplace and Cultural Competence <input type="checkbox"/> BA 2133 Human Relations <input type="checkbox"/> BA 2423 Business Ethics <input type="checkbox"/> ENGR 1113 Introduction to Engineering <input type="checkbox"/> ENGR 1123 Geometric Dimensioning and Tolerances <input type="checkbox"/> ENGR 1133 Manual Machining Skills <input type="checkbox"/> ENGR 1143 CAD-CAM <input type="checkbox"/> ENGR 2003 Principles of Mechanical Design <input type="checkbox"/> ENGR 2013 Principles of Electrical Design <input type="checkbox"/> ENGR 2903 Engineering Technology Internship <input type="checkbox"/> HUM 2333 Leadership Development through the Classics
3 hrs.	<b>Mathematics</b> <i>Select one of the following:</i> <input type="checkbox"/> MATH 1513 Pre-Calculus for Eng-Phys-CS		
2 hrs.	<b>Student Success</b> Required during first semester <input type="checkbox"/> STSC 1002 Learning Strategies		
20 hrs.	<b>TOTAL REQUIRED GENERAL EDUCATION HOURS</b>	44 hrs.	<b>TOTAL REQUIRED MAJOR FIELD HOURS</b>
		64 hrs.	<b>TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE</b>

revised 4/2018



## Semester by Semester Suggested Degree Plan\*

### Engineering Technology - Associate in Applied Science

COURSE NUMBER- COURSE DESCRIPTION	HOURS
<b>FRESHMAN YEAR, 1ST SEMESTER, FALL</b>	
<input type="checkbox"/> STSC 1002 LEARNING STRATEGIES	2
<input type="checkbox"/> MATH 1513 PRE-CALCULUS FOR ENG-PHYS-CS	3
<input type="checkbox"/> HUM 2333 LEADERSHIP DEVELOPMENT THROUGH THE CLASSICS	3
<input type="checkbox"/> ENGR 1113 INTRODUCTION TO ENGINEERING	3
<input type="checkbox"/> ENGR 1123 GEOMETRICAL DIMENSIONS AND TOLERANCES	3
<input type="checkbox"/> CAP 1103 INTRODUCTION TO MICROSOFT OFFICE	3
<b>TOTAL:</b>	<b>17</b>
<b>FRESHMAN YEAR, 2ND SEMESTER, SPRING</b>	
<input type="checkbox"/> ENG 1113 COMPOSITION I	3
<input type="checkbox"/> MATH 1613 TRIGONOMETRY	3
<input type="checkbox"/> ENGR 1133 MANUAL MACHINING SKILLS	3
<input type="checkbox"/> GOV 1113 AMERICAN NATIONAL GOVERNMENT	3
<input type="checkbox"/> BA 2133 HUMAN RELATIONS	3
<b>TOTAL:</b>	<b>15</b>
<b>SOPHOMORE YEAR, 1ST SEMESTER, FALL</b>	
<input type="checkbox"/> ENG 1213 COMPOSITION II <b>OR</b> ENGR 1313 TECHNICAL REPORT WRITING	3
<input type="checkbox"/> PHYS 2114 GENERAL PHYSICS I	4
<input type="checkbox"/> BA 1603 WORKPLACE AND CULTURAL COMPETENCE	3
<input type="checkbox"/> ENGR 1143 CAD-CAM	3
<input type="checkbox"/> ENGR 2003 PRINCIPLES OF MECHANICAL DESIGN	3
<b>TOTAL:</b>	<b>16</b>
<b>SOPHOMORE YEAR, 1ST SEMESTER, SPRING</b>	
<input type="checkbox"/> HIST 1483/1493 AMERICAN HISTORY SURVEY TO 1877 OR SINCE 1877	3
<input type="checkbox"/> BA 2423 BUSINESS ETHICS	3
<input type="checkbox"/> PHYS 2224 GENERAL PHYSICS II	4
<input type="checkbox"/> ENGR 2013 PRINCIPLES OF ELECTRICAL DESIGN	3
<input type="checkbox"/> ENGR 2903 ENGINEERING TECHNOLOGY INTERNSHIP	3
<b>TOTAL:</b>	<b>16</b>
<b>TOTAL HOURS:</b>	<b>64</b>

\*THIS IS A GUIDE TO HELP STUDENTS WITH PLANNING. A STUDY OF THE COURSE SCHEDULE AND A VISIT WITH YOUR ACADEMIC ADVISOR IS CRUCIAL FOR SUCCESS IN COMPLETING YOUR DEGREE.