



# ENGINEERING TECHNOLOGY

## ASSOCIATE OF APPLIED SCIENCE

4000

### DESIGN ENGINEERING TECHNOLOGY

TECHNICAL Course Number	Course Title	Credits	Completed Sem./Year
DET121	Engineering Drawing	3	
DET122	Descriptive Geometry	3	
DET124	Working Drawings	3	
DET125	Basic AutoCAD	3	
DET223	Kinematics	3	
DET226	Geometric Dimensioning & Tolerancing	2	
MET226	Technical Project - Mechanical and Design	2	
ETD121	Engineering Technology Seminar	1	
MET124	Statics & Strength of Materials	4	
MET225/AIT122	Manufacturing Processes or Machine Tools	3	
MET228	Machine Design	4	
	Design Elective I and II (select any two courses from the following electives): Customizing AutoCAD (DET126), Advanced AutoCAD (Inventor) (DET230), Pro Engineer (DET131)	6	
<b>TOTAL</b>		<b>37</b>	
BASIC/RELATED Course Number	Course Title	Credits	Completed Sem./Year
ECA122	Computer Applications for Technical Professionals	3	
MTH125	College Algebra	4	
MTH128	Trigonometry	1	
MTH126	Pre-Calculus	4	
MTH221	Concepts of Calculus	3	
PHY121	Physics I	4	
<b>TOTAL</b>		<b>19</b>	
NON-TECH Course Number	Course Title	Credits	Completed Sem./Year
ENG124	College Composition	3	
ENG221	Technical Report Writing	3	
COM121/COM123	Effective Speaking or Inter-group Communications	3	
	Select one (1) Arts/Humanities/Social Science elective from the list below.	3	
<b>TOTAL</b>		<b>12</b>	
<b>TOTAL CREDIT HOURS</b>		<b>68</b>	

Arts/Humanities/Social Science Electives: ACC130, PHL122, SOC121, SOC225

## FULL-TIME STUDENT - ADVISING NOTES

1. ACADEMIC ADVISING - Each student should make an appointment to see their advisor if they have difficulty registering on-line or have other questions.
2. COURSE SEQUENCE - The semester-by-semester listing below gives the normal scheduling option for full-time associate degree students who plan to finish in two years. Some courses can be scheduled as beginning courses in other semesters depending upon course availability and advisor's recommendation. Introduction to Algebra should be scheduled before College Algebra and Trigonometry by those whose pre-admission test indicates the need for it. Introduction to Algebra and selected technical and general studies courses are available summer term.
3. TECHNICAL ELECTIVES - Some programs provide for technical electives. Consult with your academic advisor to determine course availability.
4. BACHELOR'S DEGREE - In most of the associate degree programs, some courses may be applied towards a bachelor's degree in technology. Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer. Please inform your advisor if you plan on completing a bachelor's degree after your SSCT engineering technology degree

### **DESIGN ENGINEERING TECHNOLOGY**

<u>First Semester</u>		<u>Credit Hours</u>	<u>Prerequisite</u>
DET121	Engineering Drawing	3	-
ENG124	College Composition	3	ENG105 or Test
ETD121	Engineering Technology Seminar	1	-
MTH125	College Algebra	4	MTH101 or MTH103 or Test
MTH128	Trigonometry	1	Co-MTH125
ECA122	Computer Applications for Technical Professionals	3	-
DET125	Basic AutoCAD	<u>3</u>	-
		18	
<u>Second Semester</u>			
DET122	Descriptive Geometry	3	DET121
DET124	Working Drawings	3	DET121, Co-DET125
MTH126	Pre-Calculus	4	MTH125, MTH128
PHY121	Physics I	4	MTH125, MTH128
MET124	Statics & Strength of Materials	<u>4</u>	Co-PHY121
		18	
<u>Third Semester</u>			
DET226	Geometric Dimensioning & Tolerancing	2	DET124
COM121/COM123	Effective Speaking or Inter-group Communications	3	ENG124
MET225/AIT122	Manufacturing Processes or Machine Tools	3	-
MTH221	Concepts of Calculus	3	MTH126
	Design Elective I (CAD)	3	DET121
DET223	Kinematics	<u>3</u>	PHY121
		17	
<u>Fourth Semester</u>			
MET226	Technical Project - Mechanical and Design	2	ETD121, MET228, (DET125 or DET131)
MET228	Machine Design	4	MET124
ENG221	Technical Report Writing	3	ENG124
	Arts/Humanities/Social Science Elective	3	-
	Design Elective II (CAD)	<u>3</u>	Design Elective I
		15	
	<b>TOTAL CREDITS</b>	<b>68</b>	

**Arts/Humanities/Social Science Electives:** ACC130, PHL122, SOC121, SOC225