



**ENGINEERING TECHNOLOGY  
ASSOCIATE OF APPLIED SCIENCE**

**MECHANICAL ENGINEERING TECHNOLOGY**

<b>TECHNICAL Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Completed Sem./Year</b>
MET123	Material Science	2	
MET124	Statics & Strength of Materials	4	
MET221	Advanced Strength of Materials	2	
MET222	Fluid Power	4	
MET223	Dynamics	2	
MET225/AIT122	Manufacturing Processes or Machine Tools	3	
MET226	Technical Project - Mechanical and Design	2	
MET227	Thermodynamics and Heat Transfer	3	
MET228	Machine Design	4	
DET121	Engineering Drawing	3	
DET125	Basic AutoCAD or Pro Engineer (DET131)	3	
EST130	Electrical Circuits and Devices	4	
ETD121	Engineering Technology Seminar	1	
<b>TOTAL</b>		<b>37</b>	

  

<b>BASIC/RELATED Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Completed Sem./Year</b>
ECA122	Computer Applications for Technical Professionals	3	
MTH125	College Algebra	4	
MTH128	Trigonometry	1	
MTH126	Pre-Calculus	4	
MTH221/MTH223	Concepts of Calculus or Analytical Geometry-Cal I	3(4)	
PHY121	Physics I	4	
<b>TOTAL</b>		<b>19 (20)</b>	

  

<b>NON-TECH Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Completed Sem./Year</b>
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(69)</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

**MECHANICAL ENGINEERING TECHNOLOGY**

<u>First Semester</u>		<u>Credit Hours</u>	<u>Prerequisite</u>
ETD121	Engineering Technology Seminar	1	-
MET123	Material Science	2	-
DET121	Engineering Drawing	3	-
ENG124	College Composition	3	ENG105 or Test
MTH125	College Algebra	4	MTH101 or MTH103 or Test
MTH128	Trigonometry	1	Co-MTH125
ECA122	Computer Applications for Technical Professionals	<u>3</u>	
		17	
<u>Second Semester</u>			
MET124	Statics & Strength of Materials	4	Co-PHY121
MET225/AIT122	Manufacturing Processes or Machine Tools	3	-
MTH126	Pre-Calculus	4	MTH125, MTH128
DET125	Basic AutoCAD or Pro Engineer (DET131)	3	DET121
PHY121	Physics I	<u>4</u>	MTH125, MTH128
		18	
<u>Third Semester</u>			
COM121/COM123	Effective Speaking or Inter-group Communications	3	ENG124
MET228	Machine Design	4	MET124
MET221	Advanced Strength of Materials	2	MET124
MET222	Fluid Power	4	MET124
MTH221/MTH223	Concepts of Calculus or Analytical Geometry-Cal I	<u>3(4)</u>	MTH126
		16(17)	
<u>Fourth Semester</u>			
MET223	Dynamics	2	MET124
EST130	Electrical Circuits and Devices	4	MTH125
MET227	Thermodynamics and Heat Transfer	3	MTH125, PHY121
MET226	Technical Project - Mechanical and Design	2	ETD121, MET228, (DET125 or DET131)
ENG221	Technical Report Writing	3	ENG124
	Arts/Humanities/Social Science Elective	<u>3</u>	-
		17	
<b>TOTAL CREDITS</b>		<b>68(69)</b>	

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