

ASSOCIATE OF APPLIED SCIENCE

2023-24 Catalog

Effective Summer 2023

4050

MECHANICAL ENGINEERING TECHNOLOGY



The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

Business, Engineering, and Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DET121	Engineering Drawing	3		
MET124	Statics and Strength of Materials	4	Pre-Co-PHY121 or Pre-Co-PHY221	
MET221	Advanced Strength of Materials	2	MET124	
MET222	Fluid Power	4	MET124	
MET223	Dynamics	2	MET124	
MET225	Manufacturing Processes	3		
or AIT122	or Machine Tools	or 4		
MET226	Technical Project - Mechanical and Design	2	Pre-Co-MET228 and Pre-Co-DET125	
MET227	Thermodynamics and Heat Transfer	3	PHY121	
MET228	Machine Design	4	MET124	
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) or MTH107	
	Total	31-32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
DET125	Basic AutoCAD	3		
DET230	AutoCAD Inventor with 3D Printing and Scanning	3	DET125	
ENG124	College Composition^	3	Co-ENG024 or Co- ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MET123	Material Science	3		
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	MTH025 or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130) or Proficiency	
	Select one (1) Arts & Humanities Elective ¹	3	Check for prerequisites	
	Total	31		
	TOTAL CREDIT HOURS	62-63		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

First Semester		Credit Hours	Pre- or Co-requisites
SSC101	Student Success Seminar^^	1	Take first semester
MTH135	Precalculus^ – A student may take MTH125	5	MTH025 or Proficiency
	(College Algebra) and MTH130 (Trigonometry)		
ITD122	over two semesters to satisfy this requirement. Computer Applications for Professionals^	3	ITD100 or Proficiency
11D122	Computer Applications for Frotessionals	3 9	11D100 01 11offclency
Second Semester			
DET121	Engineering Drawing	3	
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or
			Proficiency
MET123	Material Science	<u>3</u>	
Third Semester		9	
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PHY121	College Physics I with Algebra (lab)^	4	MTH135 or (MTH125 and MTH130) or
			Proficiency
MET124	Statics and Strength of Materials	<u>4</u>	Pre-Co-PHY121 or
			Pre-Co-PHY221
Favorile Commenter		8	
Fourth Semester			
DET125	Basic AutoCAD	3	
MET225 or	Manufacturing Processes or	3 or	
AIT122	Machine Tools	<u>4</u>	
		6 or 7	
Fifth Semester			
MET221	Advanced Strength of Materials	2	MET124
MET222	Fluid Power	<u>4</u>	MET124
a' i a		6	
Sixth Semester			
DET230	AutoCAD Inventor with 3D Printing and Scanning	3	DET125
MET228	Machine Design	$\frac{4}{7}$	MET124
Seventh Semester		1	
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) or
ES1230	Electrical Circuits and Devices	4	MTH107
MET223	Dynamics	2	MET124
MET226	Technical Project - Mechanical and Design	<u>2</u>	Pre-Co-MET228
		_	and Pre-Co-DET125
		8	
Eighth Semester			
MET227	Thermodynamics and Heat Transfer	3	PHY121
ENG221	Technical Report Writing	3	ENG124
Arts & Humanities Elective ¹		$\frac{3}{9}$	Check for prerequisites
	TOTAL CREDITS	62-63	
footnotes on first page.	TOTAL CREDITO	02-03	