MODEL ROUTE											
School:	School of Engineering Technology & Applied Sciences - AMAT	Program Number:	3703								
Program Title:	Mechanical Engineering Technology - Design	Credential:	Certif Diplo Degre	ma	Graduate Certificate  Advanced Diploma						
Delivery Mode:	✓ Non Co-Op ☐ Co-Op ☐ Fast Track	Duration:	4 Sen	nesters nesters nesters	☐ 3 Semesters ☐ 6 Semesters ☐ 9 Semesters						
Intake:	Fall 2024 & Winter 2025										
Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours				
Semester 1		Fall 2024 & Winter	2025								
MT-102	Properties of Material		1	2	3	14	42				
MT-103	Machine Shop		3	1	4	14	56				
MT-106	CAD I/Blueprint Reading		3	2	5	14	70				
PHYS-100	Physics		0	3	3	14	42				
MATH-170	Technology Math 2	MATH-140 or Test Score	0	3	3	14	42				
COMM-160/161	College Communications 1		0	3	3	14	42				
GNED	General Education Elective		0	3	3	14	42				
						Total	336				
Semester 2		Winter 2025 & Summ	ı		_						
MT-121 *	Applied Statics	PHYS-100	0	4	4	14	56				
MT-153	CAD II	MT-106 or (MT-151 & MT-152) or FT Code	4	0	4	14	56				
MT-237 <b>♦</b>	Manufacturing Processes		0	3	3	14	42				
MT-256	Applied Electricity	MATH-140 or MATH-170	2	2	4	14	56				
MATH-180 *	Technology Math 3	MATH-170 or FT Code	0	3	3	14	42				
GNED-500	Global Citizenship: From Social Analysis to Social Action		0	3	3	14	42				
COMM-170/171	College Communications 2	COMM-160/161	0	3	3	14	42				
						Total	336				
Semester 3		Fall 2025			T	1					
MT-201	CAD/CAM and CNC Programming	(MT-103 & MATH-170/140) or FT Code	4	0	4	14	56				
MT-204 *	Strength of Materials	MT-121 & MATH 170	1	3	4	14	56				
MT-318 *	Fluid Mechanics 1	MATH-170 or MT-204 or FT Code	1	3	4	14	56				
MATH-231 *	Diff. Calc. & Analyt. Geometry	MATH-180 (C grade)	0	4	4	14	56				
MATH-316	Statistics	MATH-170	2	2	4	14	56				
AMEG-212 ♦	Applied Ethics in Technology & the Environment		0	2	2	14	28				
						Total	308				
Semester 4		Winter 2026	1			1					
MT-224 *	Applied Dynamics	MT-121 or FT Code	0	4	4	14	56				
MT-225	Hydraulics & Pneumatics		2	2	4	14	56				
MT-228	Tool Design	MT-153 or FT Code	2	2	4	14	56				
MT-257	Quality Assurance		1	2	3	14	42				

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Delivery Mode:	✓ Non Co-Op ☐ Co-Op ☐ Fast Track	Duration:	4 Ser	mesters mesters mesters	☐ 3 Semesters ☐ 6 Semesters ☐ 9 Semesters					
Intake:	Fall 2024 & Winter 2025									
Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours			
MATH-232	Integral Calculus	MATH-231 (C grade)	0	4	4	14	56			
ENGL-250	Report Writing in a Technical Environment	COMM-170/171	0	2	2	14	28			
						Total	294			
Semester 5		Fall 2026		T	Г					
MT-258	Project: Design & Construction	(MT-153 & MT-204) or FT Code	4	0	4	14	56			
MT-305	Dynamics of Machines & Mechanisms	MT-224	0	3	3	14	42			
MT-309	Thermodynamics 1	ESET-221 or MT-318	1	3	4	14	56			
MT-335	Machine Design 1	MT-204 or FT Code	0	4	4	14	56			
MT-338	Fluid Mechanics 2	MT-318	1	3	4	14	56			
MTID-311 <b>♦</b>	Operational Excellence		0	4	4	14	56			
	Total									
Semester 6		Winter 2027			1					
MT-300	FEA Applications	(MT-153 & MT-335) or FT Code	3	0	3	14	42			
MT-323 <b>♦</b>	Instrumentation & Control	(MT-256 or FT Code) & MT-318	1	2	3	14	42			
MT-324	Advanced Project: Design & Construction	MT-258	6	0	6	14	84			
MT-339	Thermodynamics 2	MT-309	0	4	4	14	56			
MT-342	Machine Design 2	MT-335	0	4	4	14	56			
GNED	General Education Elective		0	3	3	14	42			
						Total	322			
					Total Prog	ram Hours:	1918			
Notes:										
	m GPA of 2.00 is required for graduation									
	ay be offered in one of the following mod	dalities: Online, Hybrid, or Blende	ed ————————————————————————————————————							
* Minimum C grad	de required for Technologist graduation			I		<del>                                     </del>				
Scheduled Breaks										
Fall 2024 intake has scheduled breaks in Summer 2025 and Summer 2026										
Winter 2025 intak	ke has a scheduled break in Summer 2026	j 				<u> </u>				
	- 6.60									
Signature:	Donald Wang		April 12, 2022							