		MODEL ROUTE											
School:	School of Engineering Technology & Applied Sciences - AMAT	Program Number:	3701										
Program Title:	Mechanical Engineering Technician - Design	Credential:				uate Certificate nced Diploma							
Delivery Mode:	 ✓ Non Co-Op ☐ Co-Op ☐ Fast Track 	Duration:	2 Semesters 3 Semester 4 Semesters 6 Semester 8 Semesters 9 Semester			nesters	sters						
Intake:		Fall 2021 & Winter	2022										
Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours						
Semester 1	Fall 2021 & Winter 2022												
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-140	Technology Math 1		0	4	4	14	56						
COMM-160/161	College Communications 1		0	3	3	14	42						
GNED	General Education Elective		0	3	3	14	42						
						Total	350						
Semester 2		Winter 2022 & Summ	er 2022										
MT-121	Applied Statics	PHYS-100	0	4	4	14	56						
MT-153	CAD II	MT-106 or (MT-151 & MT-152)	4	0	4	14	56						
MT-237 🔶	Manufacturing Processes		0	3	3	14	42						
MT-256	Applied Electricity	MATH-140 or MATH-170	2	2	4	14	56						
MATH-170	Technology Math 2 Global Citizenship: From Social Analysis to	MATH-140	0	3	3	14	42						
GNED-500	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 2022											
MT-201	CAD/CAM and CNC Programming	MT-103 & MATH-170/140	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	1	3	4	14	56						
MATH-180	Technology Math 3	MATH-170	0	3	3	14	42						
MATH-316	Statistics	MATH-170	2	2	4	14	56						
AMEG-212 🔶	Applied Ethics in Technology & the Environment		0	2	2	14	28						
Comoster (Winter 2023				Total	294						
Semester 4			0	4		14	FC						
MT-224	Applied Dynamics	MT-121	0	4	4	14	56						
MT-225	Hydraulics & Pneumatics	NAT 150	2	2	4	14	56						
MT-228 MT-257	Tool Design	MT-153	2	2	4	14	56 42						
MT-257 MT-258	Quality Assurance Project: Design & Construction	MT-153 & MT-204 or FT Code	1	2 4	3 4	14 14	42 56						
GNED	General Education Elective	1011-135 & 1011-204 UI FI COUE	0	3	3	14	42						
ENGL-250	Report Writing in a Technical Environment	COMM-170/171	0	2	2	14							
LINGL-250	neport writing in a reclinical Environment		U	۷	۷	14	28						

		MODEL ROUTE								
School:	School of Engineering Technology & Applied Sciences - AMAT	Program Number:			3701					
Program Title:	Mechanical Engineering Technician - Design	Credential:	 ☐ Certificate ✓ Diploma ☐ Degree 		 Graduate Certificate Advanced Diploma 					
Delivery Mode:	☑ Non Co-Op	Duration:	 2 Semesters 4 Semesters 8 Semesters 		☐ 3 Sen ☐ 6 Sen ☐ 9 Sen					
Intake:	Fall 2021 & Winter 2022									
Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours			
						Total	336			
						Total	550			
					Total Prog	ram Hours:	1316			
Notes:					Total Prog					
	GPA of 2.00 is required for graduation				Total Prog					
Minimum Program	GPA of 2.00 is required for graduation be offered in one of the following modalit	ies: Online, Hybrid, or Blended			Total Prog					
	1 3	ies: Online, Hybrid, or Blended			Total Prog					
Minimum Program	1 3	ies: Online, Hybrid, or Blended		March 2	Total Prog					