MODEL ROUTE

School:	School of Engineering Technology & Applied Sciences - AMAT	**Program Number:**	3747
Program Title:	Mechanical Engineering Technology - Industrial	**Credential:**	☐ Certificate ☐ Graduate Certificate ☐ Diploma ☑ Advanced Diploma ☐ Degree
Delivery Mode:	☑ Non Co-Op ☐ Co-Op ☑ Fast Track	**Duration:**	☐ 2 Semesters ☐ 3 Semesters ☑ 4 Semesters ☐ 6 Semesters ☐ 8 Semesters ☐ 9 Semesters
Intake:	**Fall 2023 & Winter 2024**		

Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours
Semester 3	**Fall 2023 & Winter 2024**						
MT-103	Machine Shop		4	0	4	14	56
MT-201	CAD/CAM Programming	MT-103 & MATH-170/140 or **FT code**	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 or **FT Code**	0	4	4	14	56
MT-153	CAD II	MT-106 or (MT-151 & MT-152) or **FT Code**	2	2	4	14	56
COMM-170/171	College Communications 2		0	3	3	14	42
						Total	322
Semester 4	**Winter 2024 & Summer 2024**						
MT-224 *	Applied Dynamics	MT-121	0	4	4	14	56
MT-225	Hydraulics & Pneumatics		2	2	4	14	56
MT-228	Tool Design	MT-153	2	2	4	14	56
MT-257	Quality Assurance		1	2	3	14	42
MATH-232	Integral Calculus	MATH-231	0	4	4	14	56
GNED-500	Global Citizenship: From Social Analysis to Social Action		0	3	3	14	42
ENGL-250	Report Writing in a Technical Environment	COMM-170/171	0	2	2	14	28
						Total	336
Semester 5	**Fall 2024**						
MT-258	Project: Design & Construction	MT-153 & MT-204 or FT Code	4	0	4	14	56
MT-335	Machine Design 1	MT-204 or FT Code	0	4	4	14	56
MTID-311 ♦	Operational Excellence		0	4	4	14	56
MTID-312 ♦	Advanced Quality Concepts	MATH-316 or FT Code	2	2	4	14	56
MTID-313 ♦	Project Management		0	4	4	14	56
						Total	280
Semester 6	**Winter 2025**						
MT-324	Advanced Project: Design & Construction	MT-258	6	0	6	14	84
MTID-321	Shop Floor Mgmt & Continuous Improvement	MTID-311	2	2	4	14	56
MTID-322	Manufacturing Automation	~~MT-256 &~~ MT-225	2	2	4	14	56
MTID-323	Facility Planning & Workcell Design	MTID 311 & (MT-151 or MT-106)	2	2	4	14	56
MTID-324 ♦	Principles of Accounting & Financial Management	MTID 313	0	4	4	14	56
						Total	308
						Total Program Hours:	1246

MODEL ROUTE

School:	School of Engineering Technology & Applied Sciences - AMAT	**Program Number:**	3747
Program Title:	Mechanical Engineering Technology - Industrial	**Credential:**	☐ Certificate ☐ Graduate Certificate ☐ Diploma ☑ Advanced Diploma ☐ Degree
Delivery Mode:	☑ Non Co-Op ☐ Co-Op ☑ Fast Track	**Duration:**	☐ 2 Semesters ☐ 3 Semesters ☑ 4 Semesters ☐ 6 Semesters ☐ 8 Semesters ☐ 9 Semesters
Intake:	**Fall 2023 & Winter 2024**		

Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours
Notes:							
Minimum Program GPA of 2.00 is required for graduation							
♦ This course may be offered in one of the following modalities: Online, Hybrid, or Blended							
* Minimum C grade required for Technologist graduation							
Signature:	*Donald Wang*		March 22, 2018				
	AMAT Chair		Revised Date				