

MODEL ROUTE

School:	School of Engineering Technology & Applied Sciences - AMAT	Program Number:	3735	
Program Title:	Mechanical Engineering Technology - Design	Credential:	<input type="checkbox"/> Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Degree	<input type="checkbox"/> Graduate Certificate <input checked="" type="checkbox"/> Advanced Diploma
Delivery Mode:	<input checked="" type="checkbox"/> Non Co-Op <input type="checkbox"/> Co-Op <input checked="" type="checkbox"/> Fast Track	Duration:	<input type="checkbox"/> 2 Semesters <input checked="" type="checkbox"/> 4 Semesters <input type="checkbox"/> 8 Semesters	<input type="checkbox"/> 3 Semesters <input type="checkbox"/> 6 Semesters <input type="checkbox"/> 9 Semesters

Intake: **Fall 2024, Winter 2025 & Summer 2025**

Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours
Semester 3 Fall 2024, Winter 2025 & Summer 2025							
MT-103	Machine Shop		3	1	4	14	56
MT-201	CAD/CAM Programming	(MT-103 & MATH-170/140) or FT Code	4	0	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) or FT Code	0	4	4	14	56
MT-153	CAD II	MT-106 or (MT-151 & MT-152) or FT Code	4	0	4	14	56
COMM-170/171	College Communications 2		0	3	3	14	42
Total							322
Semester 4 Winter 2025, Summer 2025 & Fall 2025							
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
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
GNE-500	Global Citizenship: From Social Analysis to Social Action		0	3	3	14	42
Total							294
Semester 5 Fall 2025 & Winter 2026							
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 ♦	Operational Excellence		0	4	4	14	56
Total							322
Semester 6 Winter 2026 & Summer 2026							
MT-257	Quality Assurance		0	3	3	14	42
MT-300	FEA Applications	(MT-153 & MT-335) or FT Code	1	2	3	14	42
MT-323 ♦	Instrumentation & Control	(MT-256 or FT Code) & MT-318	1	2	3	14	42

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Intake: **Fall 2024, Winter 2025 & Summer 2025**

Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours
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
Total							322
Total Program Hours:							1260

Notes:

Minimum Program GPA of 2.00 is required for graduation

Fall & Winter intakes are eligible to apply to coop program (3745); Summer intakes are not eligible to apply to coop

◆ This course may be offered in one of the following modalities: Online, Hybrid, or Blended

* Minimum C grade required for Technologist graduation

Scheduled Breaks:

Fall 2024 intake has a scheduled break in Summer 2025

Winter 2025 & Summer 2025 intake has no scheduled break

Signature:	<i>Donald Wang</i>		April 12, 2022
	AMAT Chair		Revised Date