

## MODEL ROUTE

<b>School:</b>	School of Engineering Technology & Applied Sciences - AMAT	<b>Program Number:</b>	3747				
<b>Program Title:</b>	Mechanical Engineering Technology - Industrial	<b>Credential:</b>	<input type="checkbox"/> Certificate	<input type="checkbox"/> Graduate Certificate			
			<input type="checkbox"/> Diploma	<input checked="" type="checkbox"/> Advanced Diploma			
			<input type="checkbox"/> Degree				
<b>Delivery Mode:</b>	<input checked="" type="checkbox"/> Non Co-Op <input type="checkbox"/> Co-Op	<b>Duration:</b>	<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 3 Semesters			
	<input checked="" type="checkbox"/> Fast Track		<input checked="" type="checkbox"/> 4 Semesters	<input type="checkbox"/> 6 Semesters			
			<input type="checkbox"/> 8 Semesters	<input type="checkbox"/> 9 Semesters			
<b>Intake:</b>	<b>Fall 2024 &amp; Winter 2025</b>						
<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite (Course Code)</b>	<b>Lab Hours</b>	<b>Lecture Hours</b>	<b>Total Weekly Hours</b>	<b>Weeks (14)</b>	<b>Total Hours</b>
<b>Semester 3</b>	<b>Fall 2024 &amp; Winter 2025</b>						
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 (C grade) 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
<b>Total</b>							<b>322</b>
<b>Semester 4</b>	<b>Winter 2025 &amp; Summer 2025</b>						
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
MATH-232	Integral Calculus	MATH-231 (C grade)	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
<b>Total</b>							<b>336</b>
<b>Semester 5</b>	<b>Fall 2025</b>						
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
<b>Total</b>							<b>280</b>
<b>Semester 6</b>	<b>Winter 2026</b>						
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 or FT Code) & MT-225	2	2	4	14	56

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**Intake:** Fall 2024 & Winter 2025

Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours
MTID-323	Facility Planning & Workcell Design	MTID 311 & (MT-151 or MT-106 or FT Code)	2	2	4	14	56
MTID-324 ♦	Principles of Accounting & Financial Management	MTID 313	0	4	4	14	56
<b>Total</b>							308
<b>Total Program Hours:</b>							1246

**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

**Scheduled Breaks:**

Fall 2024 intake has a scheduled breaks in Summer 2025

Winter 2025 intake has no scheduled break

<b>Signature:</b>	<i>Donald Wang</i>		March 22, 2018
	AMAT Chair		Revised Date