

## MODEL ROUTE

<b>School:</b>	School of Engineering Technology & Applied Sciences - AMAT	<b>Program Number:</b>	3701				
<b>Program Title:</b>	Mechanical Engineering Technician - Design	<b>Credential:</b>	<input type="checkbox"/> Certificate	<input type="checkbox"/> Graduate Certificate	<input checked="" type="checkbox"/> Diploma	<input type="checkbox"/> Advanced Diploma	<input type="checkbox"/> Degree
<b>Delivery Mode:</b>	<input checked="" type="checkbox"/> Non Co-Op <input type="checkbox"/> Co-Op <input type="checkbox"/> Fast Track	<b>Duration:</b>	<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 3 Semesters	<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 2023 &amp; Winter 2024</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 1</b>	<b>Fall 2023 &amp; Winter 2024</b>						
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
GNEED	General Education Elective		0	3	3	14	42
<b>Total</b>							<b>350</b>
<b>Semester 2</b>	<b>Winter 2024 &amp; Summer 2024</b>						
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	MATH-140	0	3	3	14	42
GNEED-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
<b>Total</b>							<b>336</b>
<b>Semester 3</b>	<b>Fall 2024</b>						
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
<b>Total</b>							<b>294</b>
<b>Semester 4</b>	<b>Winter 2025</b>						
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
MT-258	Project: Design & Construction	MT-153 & MT-204 or FT Code	0	4	4	14	56
GNEED	General Education Elective		0	3	3	14	42
ENGL-250	Report Writing in a Technical Environment	COMM-170/171	0	2	2	14	28

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						Total	336
<b>Total Program Hours:</b>							1316
<b>Notes:</b>							
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							
<b>Signature:</b>	<i>Donald Wang</i>		April 12, 2022				
	AMAT Chair		Revised Date				