

## MODEL ROUTE

<b>School:</b>	School of Engineering Technology & Applied Sciences - AMAT	<b>Program Number:</b>	3735				
<b>Program Title:</b>	Mechanical Engineering Technology - Design	<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 2021, Winter 2022 &amp; Summer 2022</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 2021, Winter 2022 &amp; Summer 2022</b>						
MT-103	Machine Shop		3	1	4	14	56
MT-201	CAD/CAM Programming		4	0	4	14	56
MT-318 *	Fluid Mechanics 1		1	3	4	14	56
MATH-231 *	Diff. Calc. & Analyt. Geometry		0	4	4	14	56
MT-153	CAD II		4	0	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 2022, Summer 2022 &amp; Fall 2022</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
MATH-232	Integral Calculus	MATH-231	0	4	4	14	56
ENGL-250	Report Writing in a Technical Environment	COMM-170/171	0	2	2	14	28
GNED-500	Global Citizenship: From Social Analysis to Social Action		0	3	3	14	42
<b>Total</b>							<b>294</b>
<b>Semester 5</b>	<b>Fall 2022 &amp; Winter 2023</b>						
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
<b>Total</b>							<b>322</b>
<b>Semester 6</b>	<b>Winter 2023 &amp; Summer 2023</b>						
MT-257	Quality Assurance		0	3	3	14	42
MT-300	FEA Applications	MT-153 & MT-335	1	2	3	14	42
MT-323 ♦	Instrumentation & Control	MT-256 & MT-318	1	2	3	14	42
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
<b>Total</b>							<b>322</b>
<b>Total Program Hours:</b>							<b>1260</b>
<b>Notes:</b>							

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