

MODEL ROUTE

School:	School of Engineering Technology & Applied Sciences - AMAT	Program Number:	3748				
Program Title:	Mechanical Engineering Technology - Industrial (PTY)	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 type="checkbox"/> Non Co-Op <input checked="" type="checkbox"/> Co-Op <input checked="" type="checkbox"/> Fast Track	Duration:	<input type="checkbox"/> 2 Semesters <input type="checkbox"/> 4 Semesters <input type="checkbox"/> 8 Semesters	<input type="checkbox"/> 3 Semesters <input checked="" type="checkbox"/> 6 Semesters <input type="checkbox"/> 9 Semesters			
Intake:	Fall 2022 & Winter 2023						
Course Code	Course Title	Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours
Semester 3	Fall 2022 & Winter 2023						
MT-103	Machine Shop		3	1	4	14	56
MT-201	CAD/CAM and CNC 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
Total							322
Semester 4	Winter 2023 & Summer 2023						
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 or FT Code	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 2023						
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	2	2	4	14	56
MTID-313 ♦	Project Management		0	4	4	14	56
COOP-221	Employment Preplacement	Minimum C-grade in COMM 170/171, minimum CGPA. & minimum of Year 1 & 2 courses required for COOP-221 & subsequent PTY work-placements	0	1	1	14	14
Total							294
COOP-222	Professional Technology Year						
COOP-331	Professional Technology Year						
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

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

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