

MODEL ROUTE

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|-----------------------------|--|------------------------------------|---|--|---------------------------|-------------------|--------------------|
| School: | School of Engineering Technology & Applied Sciences - AMAT | Program Number: | 3747 | | | | |
| Program Title: | Mechanical Engineering Technology - Industrial | 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 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 | | 4 | 0 | 4 | 14 | 56 |
| MT-201 | CAD/CAM Programming | | 1 | 3 | 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 | | 2 | 2 | 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 |
| Total | | | | | | | 280 |
| Semester 6 | Winter 2024 | | | | | | |
| 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 & 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: | | | | | | | 1246 |
| Notes: | | | | | | | |

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| Program Title: | Mechanical Engineering Technology - Industrial | Credential: | <input type="checkbox"/> Certificate | <input type="checkbox"/> Graduate Certificate | | | |
| | | | <input type="checkbox"/> Diploma | <input checked="" type="checkbox"/> Advanced Diploma | | | |
| | | | <input type="checkbox"/> Degree | | | | |
| 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 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 | | | |
| Intake: | Fall 2022 & Winter 2023 | | | | | | |
| Course Code | Course Title | Pre-Requisite (Course Code) | Lab Hours | Lecture Hours | Total Weekly Hours | Weeks (14) | Total Hours |
| 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 | | | | |