



Academic Map  
**Manufacturing Technology – Associate of Applied Science**  
**TRACK A: Mechanical Technician Specialty**  
 (CIP 15.0613)

For timely completion of degree requirements, students must follow the guidelines below. Contact the Program Director for the most up-to-date course schedules.

Students who plan to pursue this degree path may not register for Academic or Technical Courses offered outside of stated degree requirements.

| <b>Courses</b>   |              |
|--|--------------|
| College Readiness Courses (if needed)  |              |
| <b>Semester I</b>  | <b>Hours</b> |
| INMT 1305 Introduction to Industrial Maintenance   | 3            |
| INMT 2303 Pumps, Compressors, and Mechanical Drives  | 3            |
| CETT 1409 DC/AC Circuits   | 4            |
| INTC 1350 Digital Measurement and Controls   | 3            |
| MATH 1314 College Algebra <b>or</b> MATH 2312 Pre-Calculus Math  | 3            |
| <b>Semester II</b>   |              |
| HYDR 1450 Hydraulics, Fabrication and Repair   | 4            |
| PTAC 1432 Process Instrumentation I  | 4            |
| INMT 1491 Special Topics in Manufacturing Technology/Technician  | 4            |
| SPCH 1315 Public Speaking  | 3            |
| <b>Semester III</b>  |              |
| WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW)  | 4            |
| QCTC 1446 Testing and Inspection Systems   | 4            |
| ENGL 1301 Composition I  | 3            |
| CHEM 1405 Introductory Chemistry I <b>or</b> CHEM 1411 General Chemistry I   | 4            |
| <b>Semester IV</b>   |              |
| MCHN 2403 Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (Capstone Course)   | 4            |
| Social & Behavioral Science on the AAS General Education Course List   | 3            |
| Language, Philosophy, & Culture <b>or</b> Creative Arts on the AAS General Education Course List   | 3            |
| Discipline-Related Studies Elective: PHYS 1401 General Physics I <b>or</b> MATH 2413 Calculus I <b>or</b> INTC 1457 AC/DC Motor Control <b>or</b> ELMT 2437 Electronic Troubleshooting, Service, and Repair (Offered Fall only) <b>or</b> INMT 1480 Cooperative Education – Manufacturing Technology/Technician (Requires Program Director Approval) | 4            |
| <b>60 Semester Credit Hours</b>  |              |

***Choose. Connect. Complete.***