

NORTH CENTRAL STATE COLLEGE

Manufacturing Technology: Semiconductor Maintenance Certificate
2023-2024



| Possible Preparatory Courses | | | | | |
|------------------------------|-------------------------------------------------|--------------------------------|-------------------------------------|------------------------------|-----------|
| Complete | Course Number | Course Title | | | |
| | FYEX 0070* | College and Career Success | | | |
| | ENGL 0040* | Integrated Reading and Writing | | | |
| | MATH 0030, MATH 0075, MATH 0084, STAT 0086 * | Developmental Math courses | | | |
| FALL | | | | YEAR ONE | |
| Complete | Term | Course Number | Course Title | Prerequisites Credits | |
| | | MFGT 1020 | Intro to Manufacturing | | 3 |
| | | EMMT 1010 | Industrial Electricity | | 3 |
| | | EMMT 1020 | Mechanical Systems | | 2 |
| | | MFGT 1025 | Semiconductor 101 | | 3 |
| | | EMMT 1050 | Fundamentals of Fluid Power Systems | | 3 |
| | | MATH 1070 | Applied Geometry & Trig | MATH0084 or MATH0065m * | 3 |
| | | ^ Milestone course | | | |
| | | | | Semester Credit Hours | 17 |

| SPRING | | | | | YEAR ONE |
|----------|------|--------------------|------------------------------|------------------------------|-----------|
| Complete | Term | Course Number | Course Title | Prerequisites | Credits |
| | | EMMT 2120 | DC/AC Drives | | 2 |
| | | EMMT 2150 | Motor Controls | | 2 |
| | | MFGT 1700 | Vacuum systems | | 3 |
| | | EMMT 1100 | Power Distributions | EMMT 1010 | 2 |
| | | EMMT 1540 | Ladder Diagrams | EMMT 1010 | 1 |
| | | EMMT 2100 | Advanced Fluid Power Systems | EMMT 1050 | 3 |
| | | MFGT 1110 | Manufacturing Processes | | 3 |
| | | ^ Milestone course | | | |
| | | | | Semester Credit Hours | 16 |
| | | | | TOTAL SEMESTER HOURS | 33 |

c = Can be concurrent m = Must be concurrent

* All incoming students will be required to provide ACT scores or take a placement test. Based on their scores, students will be placed in appropriate English and mathematics courses. Successful completion of developmental English, and mathematics prerequisites require a grade of C- or above in the course. Developmental English and mathematics course prerequisites can also be attained through placement testing. See the [Standardized Testing Cutoff Scores](#) for specific tests and test scores.

The College strongly recommends that students be covered by hospitalization insurance, which can be purchased through a private carrier. To obtain a brochure regarding insurance, contact the Student Success Center. (Rm 103 Kee Hall) or call toll free 888-755-4899, ext. 4761 or locally 419-755-4761.