

NORTH CENTRAL STATE COLLEGE

Industrial Technology – Manufacturing Tool and Die Certificate 2021-2022

| 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 1110 | Manufacturing Processes | | 3 | |
| | | MATH 1070 | Applied Geometry & Trig | MATH0084 OR MATH0065m * | 3 | |
| | | MECT 1150 | Fundamentals of Engineering Design | | 3 | |
| | | | | | Semester Credit Hours | 9 |
| SPRING | | | | | | YEAR ONE |
| Complete | Term | Course Number | Course Title | Prerequisites | Credits | |
| | | MECT 1300 | Welding | | 2 | |
| | | MFGT 2010 | Jig & Fixture Design | MFGT 1110, MECT 1150 | 3 | |
| | | | | | Semester Credit Hours | 5 |
| SUMMER | | | | | | YEAR ONE |
| Complete | Term | Course Number | Course Title | Prerequisites | Credits | |
| | | MFGT 1120 | Advanced Machining | MFGT 1110 and either MECT 1150 or ENRD2260 | 2 | |
| | | | | | Semester Credit Hours | 2 |
| FALL | | | | | | YEAR TWO |
| Complete | Term | Course Number | Course Title | Prerequisites | Credits | |
| | | MFGT 1640 | Computer Aided Manufacturing I | MFGT 1110 | 2 | |
| | | MECT 2230 | Engineering Materials | | 3 | |
| | | | | | Semester Credit Hours | 5 |
| SPRING | | | | | | YEAR TWO |
| Complete | Term | Course Number | Course Title | Prerequisites | Credits | |
| | | PHYS 1010 | Introduction to Physics | MATH0084 or Higher * | 3 | |
| | | EMMT1050 | Fundamentals of Fluid Power Systems | | 3 | |
| | | MFGT 2250 | Stamping Operations and Die Design | MFGT 1110, MECT1150 or ENRD2260 | 3 | |
| | | | | | Semester Credit Hours | 9 |
| | | | | | TOTAL SEMESTER HOURS | 30 |

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.