

# NORTH CENTRAL STATE COLLEGE

## Advanced Manufacturing Certificate 2021-2022

Possible Preparatory Courses					
Complete	Course Number	Course Title			
	<u>FYEX 0070*</u>	College and Career Success			
	<u>ENGL 0040*</u>	Integrated Reading and Writing			
	<u>MATH 0030, MATH 0075, MATH 0084, STAT 0086 *</u>	Developmental Math courses			
FALL				YEAR ONE	
Complete	Term	Course Number	Course Title	Prerequisites	Credits
		ENRD 2260	Solid Modeling		3
		MATH 1070	Applied Geometry & Trig	MATH0084 OR MATH0065m *	3
		MECT 2230	Engineering Materials		3
		MFGT1010	Industrial Blueprint Reading		2
		MFGT 1110	Manufacturing Processes		3
		MFGT2100	Quality Control and SPC		2
		<u>^ Milestone course</u>		<b>Semester Credit Hours</b>	<b>16</b>

SPRING					
				YEAR ONE	
Complete	Term	Course Number	Course Title	Prerequisites	Credits
		EMMT 1710	Introduction to Robotics		2
		ENRD 2150	Computer Aided Design I		3
		MFGT 1640	Computer Aided Manufacturing I	MFGT 1110 AND MATH 1070 *	2
		MFGT 2010	Jig & Fixture Design	MFGT 1110 and either MECT 1150 or ENRD2260	3
		MFGT2220	Manufacturing and Prototypes		2
		MFGT 2640	Computer Aided Manufacturing II		2
		<u>^ Milestone course</u>		<b>Semester Credit Hours</b>	<b>14</b>

SUMMER					
				YEAR ONE	
Complete	Term	Course Number	Course Title	Prerequisites	Credits
		MFGT 1120	Advanced Machining	MFGT 1110 and either MECT 1150 or ENRD2260	2
		<u>^ Milestone course</u>		<b>Semester Credit Hours</b>	<b>2</b>
				<b>TOTAL SEMESTER HOURS</b>	<b>32</b>

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.