

North Central Michigan College Advising Guide

BACHELOR OF SCIENCE-MANUFACTURING ENGINEERING TECHNOLOGY

What to take at NCMC for Manufacturing Engineering

PREREQUISITE and PROGRAM REQUIREMENTS		
Total credit hours: 69		
NCMC Course #	Title	Cr. Hrs.
	MICHIGAN TRANSFER AGREEMENT (MTA)	
ARTH110	<i>Art History I</i>	3
CEM121	<i>Principles of Chemistry</i>	5
COM111 or COM170	<i>Public Speaking or Interpersonal Communication</i>	3
ECO111 or ECO112	<i>Macroeconomics or Microeconomics</i>	3
ENG111	<i>Comp I</i>	3
GEO121	<i>World Geography</i>	4
MATH130	<i>College Algebra</i>	4
MU120	<i>History of Music</i>	3
PHY210	<i>General Physics</i>	5
	Other Requirements taken at NCMC	
B200	<i>Principles of Management</i>	3
CIS115	<i>C++ Programming</i>	3
ENGR101	<i>Introduction to Engineering</i>	3
MATH140	<i>Trigonometry</i>	4
MATH150	<i>Analytic Geometry and Calculus</i>	5
MFG100	<i>Machine Shop Tech Foundation</i>	3
MFG101	<i>Machine Shop Tech I</i>	3
MFG102	<i>Machine Shop Tech II</i>	3
MFG103	<i>Machine Shop Tech III</i>	3
MFG104	<i>Machine Shop Tech IV</i>	3
STAT200	<i>Statistics</i>	3

What to take on LSSU's Main Campus

MFG ENG TECH PROGRAM REQUIREMENTS		
Total credit hours: 73		
LSSU Course #	Title	Cr. Hrs.
Coop Ed	<i>Cooperative Education</i>	2
ECON302	<i>Managerial Economics</i>	4
ENGR140	<i>Linear Alg./ Num. App for Engineering</i>	2
EGNR245	<i>Calculus Apps for Technology</i>	3
EGNR265	<i>"C" Programming</i>	3
ENGR310	<i>Advance Quality Engineering</i>	3
ENGR491	<i>Engineering Design Project I</i>	3
ENGR495	<i>Engineering Design Project II</i>	3
EGET110	<i>Applied Electricity</i>	4
EGET175	<i>Applied Electronics</i>	4
EGME141	<i>Solid Modeling</i>	3
EGME240	<i>Assembly Modeling and GD&T</i>	3
EGME275	<i>Engineering Materials</i>	3
EGME276	<i>Strength of Material Lab</i>	1
EGMT225	<i>Statics & Strength Materials</i>	4
EGRS365	<i>Programmable Logic Controllers</i>	3
EGRS380	<i>Robotics Technology</i>	2
EGRS381	<i>Robotics Tech Lab</i>	1
EGRS480	<i>Manufacturing Automation</i>	3
EGRS481	<i>Manufacturing Auto Lab</i>	1
	<i>Senior Project</i>	8
	<i>Technical Electives</i>	10

HIGHLY RECOMMENDED prior to transferring to LSSU

- Michigan Transfer Agreement (MTA): Requires minimum of 30 credits with a "C" grade or better. Click on the link for information and specific courses to satisfy the MTA at NCMC: [MTA Information](http://www.ncmich.edu/resources-support/other-support/mi-transfer-agreement.html) or <http://www.ncmich.edu/resources-support/other-support/mi-transfer-agreement.html>
- Note: If the MTA is not met at NCMC, additional courses may be required at LSSU.
- Completion of Associate of General Studies degree from NCMC

✓ Checklist and Program Requirements for the Mfg Eng. Tech Program

- Apply to LSSU @ lssu.edu
- Send ALL official transcripts to LSSU
- Apply for Financial Aid (LSSU FAFSA: 002293)
- General Education Requirement met through MTA at NCMC
- Minimum of 124 credits needed for degree
- Minimum of 30 of last 60 hours taken at LSSU
- 50% of 300/400 level Department credits earned at LSSU
- Minimum GPA - 2.0 overall, Departmental -2.0

