

**BACHELOR OF SCIENCE DEGREE—MSU MOORHEAD**

**CUSTOMIZED FOR MINNESOTA STATE COMMUNITY AND TECHNICAL COLLEGE**

**Minnesota’s ONLY accredited 2+2 technical management degree**

National Association of Industrial Technology (NAIT) Accredited

MSUM’s Operations Management Bachelor of Science Degree prepares individuals with a technical knowledge base for a career managing people or processes. The program focuses on taking a technical professional and teaching them how to lead in their technical environment. It teaches them how to interpret financial statements, use technology to make business decisions, manage projects, create work environment efficiencies, and lead people.

The Operations Management Program’s key feature is its diversity. It is a great fit for multiple program areas, including manufacturing, robotics, wholesale, technical sales, computer network specialists, computer technicians, medical office careers, medical technical careers, health professionals (EMT), and transportation careers. The Operations Management degree prepares technical and/or technical management-oriented professionals for employment in business, industry, education, and government.

**SUGGESTED COURSE SEQUENCING**

**JUNIOR YEAR**

**Fall Semester:**

Tech 380 Methods Improvement	3 cr
Tech 383 Cost Analysis	3 cr
Acct 230 Financial Accounting	3 cr
Elective	3 cr
Elective	<u>3 cr</u>
<b>Total</b>	<b>15 cr</b>

**Spring Semester:**

Tech 485 Production and Inventory	3 cr
Tech 493 OS & H	3cr
MGMT 360 Intro to Management	3cr
Elective	3 cr
Elective	<u>3cr</u>
<b>Total</b>	<b>15 cr</b>

**SENIOR YEAR**

**Fall Semester:**

Tech 393 Computer Appls	3 cr
Tech 482 Quality Plan/Impl	3 cr
Phil 312 Business Ethics	3 cr
Elective	3 cr
Elective	<u>3 cr</u>
<b>Total</b>	<b>15 cr</b>

**Spring Semester:**

Tech 385 Process Leadership	3cr
Tech 428 Project Management	3 cr
Elective	3 cr
Elective	3cr
Elective	<u>3cr</u>
<b>Total</b>	<b>15 cr</b>

**\*490 Internships:** Internships are often completed in the summer and at the student’s current place of employment.

# COURSE REQUIREMENTS

## MSU-MOORHEAD CUSTOMIZED ADVISEE SHEET

MNTC COURSES: 13 COURSES (41 CREDITS)		CR	GR
<b>GOAL AREA</b>			
1	<b>COMMUNICATION</b>	<b>9 CREDITS</b>	
	SPCH 1114 Intro to Public Speaking	3	
	ENGL 1101 College Writing I	3	
	ENGL 1220 Professional /Technical Writing	3	
2	<b>Critical Thinking</b>		
	CHEM 1100 Fundamental Concepts of Chemistry		
	MATH 1114 College Algebra		
3	<b>NATURAL SCIENCES</b>	<b>6 CREDITS</b>	
	<b>Chemistry with a LAB</b>	3	
	CHEM 1100 Fundamental Concepts Chemistry		
	<b>Physics with a LAB</b>	3	
	PHYS 1101 Physics and the Environment		
4	<b>MATHEMATICAL</b>	<b>8 CREDITS</b>	
	MATH1114 College Algebra	4	
	MATH 1213 Intro to Statistics	4	
5	<b>HISTORY, SOCIAL/BEHAVIORAL SCIENCES</b>	<b>9 CREDITS</b>	
	<b>Social Science</b>	3	
	ECON 2222 Microeconomics		
	PSYCH 1200 General Psychology	3	
	SOC 1111 Intro to Sociology	3	
6	<b>The HUMANITIES and FINE ARTS</b>	<b>9 CREDITS</b>	
	ENGL 2230 Environmental Literature	3	
	HUM 2236 Technology in Humanities	3	
	One Elective from department outside of ENGL or HUM	3	
7	<b>HUMAN DIVERSITY</b>		
	SOC 1111 Intro to Sociology		
8	<b>GLOBAL PERSPECTIVE</b>		
	HUM 2236 Technology in Humanities		
10	<b>PEOPLE AND THE ENVIRONMENT</b>		
	ENGL 2230 Environmental Literature		
9	<b>ETHICAL AND CIVIC RESPONSIBILITY</b>	<b>3 CREDITS</b>	
	PHIL 312 Business Ethics (MSUM) ♦		

♦ Must be taken through MSU-Moorhead to fulfill 40-credit upper division requirement

### OPERATIONS MANAGEMENT B.S. DEGREE 2+2

<b>OPERATIONS MANAGEMENT CORE</b>	Cr	24
Tech 380 Methods Improvement	3	_____
Tech 383 Cost Analysis	3	_____
Tech 385 Process Leadership (W4)	3	_____
Tech 394 Computer Applications	3	_____
Tech 428 Project Management	3	_____
Tech 482 Quality Planning/Implementation	3	_____
Tech 485 Production /Inventory Management	3	_____
Tech 493 Occupational Safety/Health	3	_____

<b>INTERNSHIP REQUIRED</b> (Minimum of 3 credits)		12
Tech 469 Internship (3 to 12 credits)	_____	

<b>TECHNICAL TRANSFER BLOCK</b>		30
* (30 technical transfer credits from technical area)	_____	

<b>LOWER DIVISION REQUIREMENTS</b>		6
Acct 2200 Intermediate Accounting I	3	_____
Busn 1051 Introduction to Management	3	_____

<b>GENERAL EDUCATION</b>		41
MSUM PHIL 312		3

<b>ELECTIVES</b>		5
(Electives or transfer credits not applying to MNTC or the technical transfer block above. Must also include a one credit 490 Special Topics course to fulfill 40-credits of upper division).		

# TOTAL CREDITS 121

**\*THIS 2+2 BS PROGRAM, THE FIRST APPROVED BY MNSCU FOR BLOCK CREDIT TRANSFER, RECOGNIZES THE TECHNICAL COURSES AS A COHESIVE SET OF COURSES WITH STATED AND verified educational outcomes.**

**Courses in goal areas 1-6 that are also listed in areas 7-10 can be used to satisfy BOTH areas. MEET WITH AN ADVISOR or see website (left) for class choices.**

