

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>
Total	15 cr

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>
Total	15 cr

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>
Total	15 cr

Spring Semester:

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

***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

DRAGON CORE: MINIMUM 14 COURSES (42 CR)		CR	GR
GOAL AREA			
1/2	COMMUNICATION & CRITICAL THINKING	9 CREDITS	
	Oral Communication SPCH 1114 Intro to Public Speaking	3	
	Written Communication ENGL 1101 College Writing I	3	
	ENGL 1220 Professional /Technical Writing	3	
3	NATURAL SCIENCES	7 CREDITS	
	Chemistry with a LAB CHEM 1101 Principles of Chemistry	4	
	Physics with a LAB PHYS 1101 Physics and the Environment	3	
4	MATHEMATICAL	8 CREDITS	
	MATH1114 College Algebra	4	
	MATH 1213 Intro to Statistics	4	
5	HISTORY, SOCIAL/BEHAVIORAL SCIENCES	9 CREDITS	
	Social Science ECON 2222 Microeconomics	3	
	PSYCH 1200 General Psychology	3	
	SOC 1111 Intro to Sociology	3	
6	The HUMANITIES and FINE ARTS	9 CREDITS	
	ENGL 2230 Environmental Literature	3	
	HUM 2236 Technology in Humanities	3	
	One Elective from department outside of ENGL or HUM	3	
7	HUMAN DIVERSITY SOC 1111 Intro to Sociology		
8	GLOBAL PERSPECTIVE HUM 2236 Technology in Humanities		
10	PEOPLE AND THE ENVIRONMENT ENGL 2230 Environmental Literature		
9	ETHICAL AND CIVIC RESPONSIBILITY PHIL 312 Business Ethics (MSUM) ◊	3 CREDITS	

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

Note: Students may elect to take CHEM 1100 Fundamental Concepts Chemistry 3 crs plus an additional goal area 7 course.

OPERATIONS MANAGEMENT B.S. DEGREE 2+2

OPERATIONS MANAGEMENT CORE	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	_____

INTERNSHIP REQUIRED (Minimum of 3 credits)		12
Tech 469 Internship (3 to 12 credits)	_____	

TECHNICAL TRANSFER BLOCK		30
* (30 technical transfer credits from technical area)	_____	

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

GENERAL EDUCATION (DRAGON CORE)		42
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ELECTIVES		5
(Electives or transfer credits not applying to MTC 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 120

***THIS 2+2 BS PROGRAM, THE FIRST APPROVED BY MNCSU 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.