

ON LINE: MSUM & MSTATE

BACHELOR OF SCIENCE DEGREE

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.

SUGGESTED COURSE SEQUENCING:

JUNIOR YEAR

Fall Semester:

Tech 380 Methods Improvement (MSUM)	3 cr
Tech 383 Cost Analysis (MSUM)	3 cr
*ACCT 1110 PRIN of Accounting (MSTATE)	3 cr
MNTC/Gen Ed	3 c
MNTC/Gen Ed	<u>3 cr</u>
Total	15 cr

Spring Semester:

Tech 485 Production and Inventory(MSUM)	3 cr
Tech 493 OS & H (MSUM)	3cr
MGMT 360 Intro to Management (MSUM)	3cr
Math 1114 College Algebra	3 cr
MNTC/ Gen Ed	<u>3cr</u>
Total	15 cr

SENIOR YEAR

Fall Semester:

Tech 393 Computer Appls (MSUM)	3 cr
Tech 482 Quality Plan/Impl (MSUM)	3 cr
ECON 2220/2210 ECON (MSTATE)	3 cr
*Physics 1101/Chem 1100 (MSTATE) (ONLY ONE)	3 cr
MNTC/Gen Ed	<u>3 cr</u>
Total	15 cr

Spring Semester:

Tech 385 Process Leadership(MSUM)	3cr
Tech 428 Project Managemnet(MSUM)	3 cr
*Math 1213 Statistics (MSTATE)	3 cr
MNTC/GenEd	3cr
MNTC/Gen Ed	<u>3cr</u>
Total	15 cr

***469 Internships: Internships are often completed in the summer and at the students current place of employment.**

FALL ONLY CLASSES:

Tech 380 Methods
 Tech 383 Cost
 Tech 394 Computers
 Tech 482 Quality

SPRING ONLY CLASSES:

Tech 485 Production Inventory Management
 Tech 493 OSHA
 Tech 385 Process Leadership
 Tech 428 Project Management

TO REGISTER FOR MATH:

You need to have an SAT/ACT math score on file or take the AccuplacerTest. Contact ARO at 1.218.477.4318.
 You must take College Algebra before Probability and Statistics

ACCOUNTING:

You must have or be in Principles of Accounting when you register for Tech 383 Cost Analysis

WRITING INTENSIVE REQUIREMENTS:

You must take two writing intensive courses. Both of those courses MUST come from MSUM. You **can not** transfer in a writing intensive course to fulfill this requirement. One of your writing intensive courses is Tech 385 Process Leadership (core requirement). The other

writing intensive course needs to be at a 200 level or above. We recommend: GEOS 320, CHEM 304, PHIL 312, which also fulfill DC 8, 9, 10 respectively.

COURSE REQUIREMENTS

DRAGON CORE (MINIMUM OF 14 COURSES, MINIMUM OF 40 CREDITS, GPA 2.0, SATIFICATION OF EACH GOAL AREA REQUIREMENT)		42 CR	GR
1A	Oral Communication : 1. SPCH 1114 or SPCH 1150	3	
1B	Written Communication : 2. ENGL 1101 College Writing	3	
2	Critical Thinking (Select DC#2 Class) 3.Mstate Options : ENGL 1201 Technical Writing, PSYC 1101 Human Interaction, PHIL 1130 Critical Thinking	3	
3	4.Math 1114 College Algebra	3	
3M	Mathematics 5.Math 1213 Probability& Statistics	3	
4I/M	Natural Sciences (Any 2 Classes, one must be lab) 6.Chem 1100/Physics 1105 (pick one) 7.Physics 1112 General Physics	4 3	
5M	History and Social Sciences 8. Econ 2220 or 2210 Principles of Microeconomics *Note: You can count no more than 3 courses in category 5.	3	
6I/M	The Humanities 9.Any Goal Area 6 Satisfies this requirement Recommend: HUM1101Intro to Humanity, HUM 2236 Hum and Technology,	3	
7M	Human Diversity 10.Any Goal area 7 satisfies this requirement MStateOptions: Soc 1111, ANTH 1100	3	
8	Global Perspective 11.GEO320 Economic Geography(MSUM) (W) or elective from MState. Options: GEOG110 World Geo, Hist 1110, 1111, 1112, 1113	3	
9	Ethical and Civil Responsibility 12.Phil 312/318 (MSUM) (w) or elective from MSCTC Options: PHIL 1201 Ethics, 2220 Environmental Ethics	3	
10	People and Environment 13.CHEM 304 Chem and you (MSUM)(w) or electives from MState. Options: ENGL 2230 Envir Engl, PSYC 1107 Environmental Psych	3	
	One MNTC Core electives 14.Any MSTATE Elective, don't double count	3	
	Minimum total	43	

OPERATIONS MANAGEMENT B.S. DEGREE 2+2

OPERATIONS MANAGEMENT CORE	Cr	27
Tech 380 Methods Improvement	3	_____
Tech 383 Cost Analysis	3	_____
Tech 385 Process Leadership	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) **3-12**
Tech 469 Internship (3 to 12 credits) _____

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

RELEATED REQUIREMENTS

Mgmt 360 Principles of Management	3	_____
Acct 1110 Principles of Accounting	3	_____
*Math 1213 Probability and Statistics	3	_____
*Math 1114 College Algebra	3	_____
*Econ 2220,2210 Economics	3	_____
*2 Natural Sciences either Chem or Physics (one has to have alab)	7	_____

GENERAL EDUCATION (DRAGON CORE) **43**

2 WRITING INTENSIVE COURSES

TECH 385 PROCESS LEADERSHIP	3	_____
ADDITIONAL WRITING INTENSIVE	3	_____

*MUST BE TAKEN FROM MSUM

*RECOMMEND GEOS 320 ECONOMIC GEOGRAPHY (DC8), PHIL 312 ETHICS(DC9), CHEM 304 CHEM AND THE ENVIRONMENT (DC10)

TOTAL CREDITS **120**

- Minimum of 42 Credits _____
- Minimum of 14 Courses _____
- Completion of 3 MCluster courses _____
- GPA of 2.0 or above _____
- Completion of each Goal Area 1-10 _____

- Total Graduation Requirements
- 40 Credits of upper division _____
 - Two Writing Intensive Courses _____
 - GPA 2.0 or better _____
 - 120 Total Credits _____



Updated 12/17/09
Technology Department -- Moorhead, MN, 56563

Phone: (218) 477-2466 Fax: (218) 477-5958
Web Site: <http://www.mnstate.edu/om/>

- Note, you can double count course to fulfill goal areas, but can only count once towards the 14 Course requirement and 42 credits.
- You can have no more than 3 classes in Goal area 5

- 5. 30 Residency Requirements
- 6. 8 of 12 Rule
- 7. Fill out grad application

Website: www.mnstate.edu/records

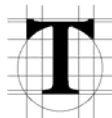
OPERATIONS MANAGEMENT PLAN OF STUDY WORKSHEET

Name _____ Dragon ID _____

Fall _____	Spring _____
Summer _____	
Fall _____	Spring _____
Summer _____	
Fall _____	Spring _____
Summer _____	

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Note: Your advisor's role is to give you advice on what classes to take. The Students role is to ensure they meet the graduation requirements and fill out the necessary paperwork.



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Minnesota State University Moorhead