

Industrial Management/

# **Manufacturing and Service Operations Management**

Krannert School of Management

Fall 2016

Program: MGMT-BSIM Code: IMMS Credit Hours: 120 Graduation Index: 2.00 minimum Major Index: 2.00 minimum

	Major mack. 2.00 mmman
	ijor Upper Division Courses (33 credits)
(3)	OBHR 33000 Organizational Behavior
(3)	MGMT 30500 Business Statistics (Prerequisite: STAT 22500 C- or higher)
	MGMT 31000 Financial Management (Prerequisite: MGMT 20100 & ECON 25100 & STAT 22500 C- or higher)
(3)	
(3)	MGMT 30600 Management Science (Pre or Co-requisite MGMT 30500 or STAT 35000 C- or higher)
(3)	MGMT 32400 Marketing Management (Prerequisite: MGMT 20100 & ECON 25100 C- or higher)
(3)	MGMT 35400 Legal Foundations of Business I
(3)	MGMT 36100 Operations Management (Prerequisite: STAT 22500 C- or higher)
(3)	MGMT 38200 Management Information Systems (Prerequisite: CS 23500 C- or higher)
(3)	MGMT 45100 Strategic Management (Prerequisite: MGMT 20100 & ECON 25100 C- or higher)
(3)	ECON 41900 Managerial Economics (Prerequisite: ECON 25100)
(3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	MGMT 44428 Human Resource Management (Prerequisite: MGMT 30500 or STAT 35000 C- or higher)
	ves (15 credits)
1. Comp	olete the following courses (9 credits)
(3)	MGMT 40500 Six Sigma Quality Management (Prerequisite: MGMT 30500 or STAT 35000 C- or higher)
(3)	MGMT 45200 Manufacturing Strategy (Prerequisite: MGMT 36100 & MGMT 45100 C- or higher)
(3)	MGMT 46200 Advanced Manufacturing Planning & Control Systems (Prerequisite: MGMT 36100 C- or higher)
2. Com	plete two of the following courses (6 credits)
(3)	MFET 40000 Computer Integrated Manufacturing
(3)	MGMT 54400 Database Management Systems (Prerequisite: MGMT 38200 C- or higher)
(3)	MA 26500 Linear Algebra (Prerequisite or Co-Requisite: MA 26100 C- or higher)
(3) (3) (3) (3) (3)	MA 54500 Systems Development
	tmental /Program Course Requirements (63- 66 credits, including MAI Core courses)
-	
(1)	MGMT 29500 Professional Career MGMT <b>(CC, C- or higher)</b>
(3)	COM 11400 Fundamentals of Speech Communication <b>3 *UC* satisfies Oral Communication for core</b>
(2)	CS 23500 Organizational Computing <b>(Co-requisite: MA 15400/MA 15910/MA 15800/ MA 16500/MA</b>
(3) (3) (3) (4) (3) (3) (4)	22300/MA 16010)
(3)	ECON 25200 Macroeconomics <b>*UC*</b> satisfies Behavioral/Social Science for core
(3)	ENGL 42000 Business Writing or ENGL 42100 Technical Writing ( <b>Prerequisite: ENGL 10600/ENGL 10800</b> )
(4)	MA 26100 Multivariate Calculus ( <b>Prerequisite: MA 16200 C- or higher</b> )
(3)	MGMT 20100 Management Accounting I (Prerequisite: MGMT 20000 C- or higher)
(3)	STAT 22500 Intro to Probability Models ( <b>Prerequisite: MA 16020 C- or higher</b> )
(1)	Chemistry or Physics <b>*UC* * satisfies Science for core (CC, C- or higher)</b>
(3-4)	Chemistry or Physics <b>*UC* * satisfies Science for core (CC, C- or higher)</b>
(3)	PSY 12000 or SOC 10000
(3)	International Elective <u>http://krannert.purdue.edu/undergraduate/current-students/International%20Electives.pdf</u>
$ \begin{array}{c} (3-4) \\ (3$	International Elective <u>http://krannert.purdue.edu/undergraduate/current-students/International%20Electives.pdf</u>
(3)	UC Human Cultures (Humanities) <b>*UC</b> * <u>www.purdue.edu/provost/initiatives/curriculum/course.html</u>
(3)	UC Science, Technology & Society <b>*UC*</b> <u>www.purdue.edu/provost/initiatives/curriculum/course.html</u>

Completion prior to admittance to Upper Division strongly encouraged

\*UC\* Fulfills University Core requirement

## Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Chemistry	11500 (4cr)	Physics	17200 (4cr)	22000(4cr)
	11600 (4cr)		21800(4cr)	22100 (4cr)
			21900(4cr)	24100 (3cr)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

## Management Admissions Index (MAI) Core\*

 (3)	ECON 25100 Microeconomics *UC* satisfies Behavioral/Social Science for core (CC)
	ENGL 10600 First-Year Composition or ENGL 10800 (3cr) Accelerated First-Year Composition <b>*UC* satisfies</b>
(4)	Written Communication for core (CC)
 (4-5)	MA 16100 (5 cr)/MA 16500 (4 cr) Analytic Geometry & Calculus I <b>*UC* satisfies Quantitative Reasoning for</b> core (CC)
 (4-5)	MA 16200 (5 cr) /MA 16600 (4 cr) Analytic Geometry & Calculus II <b>(CC, Prerequisite: MA 16100/MA16500 C- or higher)</b>
 (3)	MGMT 20000 Introductory Accounting (CC)
 (( )	

Electives (6-9 credits)	
-------------------------	--

( )	()	()	()
( )	()	()	()

## \*Management Admissions Index (MAI) Core

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.40 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: <u>http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp</u>
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- Students are responsible for consulting their advisor about re-take options available to them.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

## **University Core Requirements**

Human Cultures Humanities	Science, Technology & Society	
Human Cultures	Written Communication	
Behavioral/Social Science		
Information Literacy	Oral Communication	
Science Selective	Quantitative Reasoning	$\Box$
Science Selective		

## 

The student is ultimately responsible for knowing and completing all degree requirements.

## The knowledge source for specific degree requirements and completion is myPurduePlan.

Completion prior to admittance to Upper Division strongly encouraged

**\*UC\*** Fulfills University Core requirement

## Industrial Management Manufacturing and Service Operations Management

Suggested Arrangement of Courses:

Fall 1st Vear	00			Prerequisite
	-		1 0	-
16500 (CC)	or ACT MATH 29	4-5	(CC)	MA 16100 or MA 16500
ENGL 10800 (CC)		3	COM 11400	
(CC)	C- or higher	4	CHM or PHYS (CC)	C- or higher
PSY 12000 or SOC 10000		3	UC Humanities	
		1	MGMT 29500 (CC)	Must complete in the first or second year
		15-16		
Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
MGMT 20000 (CC)		3	STAT 22500	MA 16020 or MA 16100 C- or higher
ECON 25100 (CC)		3	MGMT 20100	MGMT 20000 C- or higher
MA 26100	higher	3	ECON 25200	
CS 23500	Co-requisite: MA 15400/MA 15910/MA 15800/ MA 16500/MA 22300/MA 16010	3	International Elective	
UC Science, Tech & Society		3	General Elective	
		15		
Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
ENGL 42000	ENGL 10600 or ENGL 10800 D- or higher	3	International Elective	
MGMT 30500		3	MGMT 30600	Pre or co-req MGMT 30500 or STAT 35000 C- or higher
MGMT 31000	& STAT 22500 C- or higher	3	OBHR 33000	
MGMT 32400	MGMT 20100 C- & ECON 25100 C- or higher	3	MGMT 36100	STAT 22500 C- or higher
Required IMMS Course		3	MGMT 40500	MGMT 30500 or STAT 35000 C- or higher
		15		
		Credits	Spring 4th Year	Prerequisite
Fall 4th Year	Prerequisite	creuits		•
Fall 4th YearMGMT 38200	CS 23500 C- or higher	3	MGMT 44428	MGMT 30500 or STAT 35000 C- or higher
MGMT 38200 MGMT 35400	CS 23500 C- or higher	3	MGMT 45100	MGMT 30500 or STAT 35000 C- or higher MGMT 20100 C- & ECON 25100 C- or higher
MGMT 38200	CS 23500 C- or higher ECON 25100	3		MGMT 30500 or STAT 35000 C- or higher MGMT 20100 C- & ECON 25100 C-
MGMT 38200 MGMT 35400 ECON 41900 MGMT 45200	CS 23500 C- or higher	3 3 3 3 3	MGMT 45100 MGMT 46200 Required IMMS Course	MGMT 30500 or STAT 35000 C- or higher MGMT 20100 C- & ECON 25100 C- or higher
MGMT 38200 MGMT 35400 ECON 41900	CS 23500 C- or higher ECON 25100 MGMT 36100 & MGMT 45100	3 3 3	MGMT 45100 MGMT 46200	MGMT 30500 or STAT 35000 C- or higher MGMT 20100 C- & ECON 25100 C- or higher
	ENGL 10600/ ENGL 10800 (CC) PSY 12000 or SOC 10000 Fall 2nd Year MGMT 20000 (CC) ECON 25100 (CC) ECON 25100 (CC) MA 26100 CS 23500 UC Science, Tech & Society Fall 3rd Year ENGL 42000 MGMT 30500 MGMT 30500 MGMT 31000 Required IMMS Course	Fall 1st YearPrerequisiteMA 16100 or MA 16500 (CC)ALEKS 085 or SAT MATH 650 or ACT MATH 29ENGL 10600/ ENGL 10800 (CC)C- or higherC(C)C- or higherPSY 12000 or SOC 10000C- or higherFall 2nd YearPrerequisiteMGMT 20000 (CC)Correquisite:MGMT 20000 (CC)Correquisite: MA 16600 C- or higherMGMT 20000 (CC)Correquisite: MA 15400/MA 15910/MA 16600 C- or higherCS 23500Co-requisite: MA 15400/MA 16500/MA 22300/MA 16010UC Science, Tech & SocietyENGL 10600 or ENGL 10800 D- or higherMGMT 30500STAT 22500 C- or higherMGMT 31000MGMT 20100 C- & ECON 25100 & STAT 22500 C- or higherMGMT 32400MGMT 20100 C- & ECON 25100 & STAT 22500 C- or higherMGMT 32400MGMT 20100 C- & ECON 25100 C- or higherRequired IMMS CourseMGMT 20100 C- & ECON 25100 C- or higher	Fall 1st YearPrerequisiteCreditsMA 16100 or MA 16500 (CC)ALEKS 085 or SAT MATH 650 or ACT MATH 294-5ENGL 10600/ ENGL 10800 (CC)3C(C)C- or higher4PSY 12000 or SOC 100003SOC 100001Fall 2nd YearPrerequisiteMGMT 20000 (CC)3C(C)MA 16200/MA 16600 C- or higherMGMT 20000 (CC)3Correquisite: MA 15400/MA 15910/MA 15800/MA 16010UC Science, Tech & Society3ENGL 42000ENGL 10600 or ENGL 10800 D- or higher3MGMT 30500STAT 22500 C- or higher3MGMT 31000MGMT 20100 C- & ECON 25100 & STAT 22500 C- or higher3MGMT 31000MGMT 20100 C- & ECON 25100 & STAT 22500 C- or higher3MGMT 31000MGMT 20100 C- & ECON 25100 & STAT 22500 C- or higher3MGMT 32400MGMT 20100 C- & ECON 25100 & STAT 22500 C- or higher3Required IMMS Course33	MA 16100 or MA 16500 (CC)         ALEKS 085 or SAT MATH 650 or ACT MATH 29         4-5         MA 16200 or MA 16600 (CC)           ENGL 10600/ ENGL 10800 (CC)         3         COM 11400           C(C)         C - or higher         4         CHM or PHYS (CC)           C(C)         3         UC Humanities           C(C)         3         UC Humanities           SOC 10000         3         UC Humanities           SOC 10000         1         MGMT 29500 (CC)           Fall 2nd Year         Prerequisite         Credits         Spring 2nd Year           MGMT 20000 (CC)         Prerequisite         3         ECON 25100           (CC)         MA 16200/MA 16600 C- or higher         3         ECON 25200           Co-requisite: MA 15400/MA 15910/MA 15800/ MA 15910/MA 15800/ MA 16500/MA 22300/MA 16010         3         General Elective           VC Science, Tech & Society         Society         15         International Elective           Fall 3rd Year         Prerequisite         MC 10800 D- or higher         3         International Elective           MGMT 30500         STAT 22500 C- or higher         3         MGMT 30600           MGMT 31000         MGMT 20100 C- & ECON 25100 & STAT 22500 C- or higher         3         MGMT 36100           MGMT 32400

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

\_\_\_\_\_

• Completion prior to admittance to Upper Division strongly encouraged

\*UC\* Fulfills University Core requirement

• Completion prior to admittance to Upper Division strongly encouraged

**\*UC\*** Fulfills University Core requirement