

**Bachelor of Science in Industrial Management**  
**Major: Manufacturing and Service Operations Management**  
**Minimum credit hours: 120**

**Management Admissions Index Core (MAI)**

- To be automatically 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 School of Management courses, and may not be on academic probation.
- Requirements for upper division can be found online:  
<http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp>
- MAI courses, or their equivalents, may only be enrolled in two times for a grade.
- A maximum of three MAI courses may be retaken.
- School of Management, MAI, and concentration courses with grades of "F" can only be retaken at Purdue University.
- Both science electives must be completed prior to admission to upper division of Industrial Management

**MAI Core**

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

**School of Management Foundations**

3	COM 11400 Fundamentals of Speech Communication or equivalency ♦ <b>*UC*</b> <i>satisfies Oral Communication for core</i>
3	CS 23500 Organizational Computing ♦ ( <b>MA 16010</b> )
3	ECON 25200 Macroeconomics <b>*UC*</b> <i>satisfies Behavioral/Social Science for core</i>
3	ENGL 42000 Business Writing ( <b>ENGL 10600/ENGL 10800</b> )
4	MA 26100 Multivariate Calculus ( <b>MA 16200 C- or higher</b> )
3	MGMT 20100 Management Accounting I ( <b>MGMT 20000 C- or higher</b> )
1	MGMT 30100 Professional Career Management
3	STAT 22500 Introduction to Probability Models ( <b>MA 16020 C- or higher</b> )
3-5	Chemistry or Physics (C- or higher) <b>*UC*</b> <i>satisfies Science for core</i>
3-5	Chemistry or Physics (C- or higher) <b>*UC*</b> <i>satisfies Science for core</i>
3	PSY 12000 or SOC 10000 <b>*UC*</b> <i>satisfies Behavioral/Social Science for core</i>
3	International Elective
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**International Electives**

AGEC	25000	COM	22400	POL	13000	*You must be in Upper Division to take these classes.	
	34000		30300		14100		
	45000	CSR	33200		23500	ECON	36800
ANTH	34100	HIST	34000		23700		37000
CLCS	23700		34100		34500		46600
	33300		34300		34700	MGMT	41500
	38000		34400		34800		42210
	38100		40800		43000		45900
	38300	PHIL	33000		43200		50900
	48300		33100		43300		
		SOC	33900		43500		

- Any foreign language course – 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.
- Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

♦ Completion prior to admittance to upper division strongly encouraged

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

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

Revised 03/20/2015 LG (effective Fall 2015)

**Chemistry or Physics 8 Hours must be completed prior to admission to Upper Division**

Chemistry	11500 (4cr)	Physics	17200 (4cr)	22100 (4cr)
	11600 (4cr)		21800(4cr)	24100 (3cr)
	12300(4cr)		21900(4cr)	25100 (5cr)
	12400(4cr)		22000(4cr)	26100(4cr)

Equivalent courses, credit given for only one: CHM 11500 & 12300; CHM 11600 & 12400; PHYS 17200, 21800 & 22000; PHYS 21900, 22100, 24100, 25100 & 26100

**University Core (\*UC\*)/Program Course Requirements**

- \_\_\_\_\_ 3 UC Human Cultures (Humanities) \*UC\* <http://www.purdue.edu/provost/initiatives/curriculum/course.html>  
 \_\_\_\_\_ 3 UC Science, Technology & Society \*UC\* <http://www.purdue.edu/provost/initiatives/curriculum/course.html>  
 (Additional requirements fulfilled through MAI Core and/or School of Management Foundations courses)

**Upper Division Required Courses**

- |  |   |
|--|---|
| _____ 3 OBHR 33000 Organizational Behavior         | _____ 3 MGMT 36100 Operations Management          |
| _____ 3 MGMT 30500 Business Statistics             | _____ 3 MGMT 38200 Management Information Systems |
| _____ 3 MGMT 30600 Management Science              | _____ 3 MGMT 45100 Strategic Management           |
| _____ 3 MGMT 31000 Financial Management            | _____ 3 MGMT 44428 Human Resource Management      |
| _____ 3 MGMT 32400 Marketing Management            | _____ 3 ECON 41900 Managerial Economics           |
| _____ 3 MGMT 35400 Legal Foundations of Business I |   |

**Required Manufacturing and Service Operations Management Upper Division Courses**

**Complete the following courses:**

- \_\_\_\_\_ 3 MGMT 40500 Six Sigma and Quality Management  
 \_\_\_\_\_ 3 MGMT 45200 Manufacturing Strategy  
 \_\_\_\_\_ 3 MGMT 46200 Adv. Mfg. Planning and Control Systems

**Choose two of the following courses for 6 credits:**

- \_\_\_\_\_ 3 MFET 40000 Computer Integrated Manufacturing  
 \_\_\_\_\_ 3 MA 26500 Linear Algebra  
 \_\_\_\_\_ 3 MGMT 44429 Employee Relations and Performance Management  
 \_\_\_\_\_ 3 MGMT 54400 Database Management Systems  
 \_\_\_\_\_ 3 MGMT 54500 Systems Development

**Electives (Complete Enough Electives to Equal at Least 120 Credits)**

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

**General Information**

- MGMT, OBHR and ECON courses numbered 30000 or higher, except for MGMT 30100, can only be taken after being admitted to Upper Division.
- Transfer credit for upper level MGMT, OBHR and ECON ([https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p\\_select\\_info](https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p_select_info)) courses will only be considered if taken at a 4 year AACSB accredited school, ([www.aacsb.edu](http://www.aacsb.edu)).
- Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities. Minors outside of the School of Management are also available.
- Refer to the most updated list of pre-and co-requisites and Course Grade Requirements at <http://krannert.purdue.edu/undergraduate/current-students>.

**Graduation Index Requirements**

- Graduation Index: 2.0 minimum
- Major (MGMT, OBHR, ECON) Index: 2.0 minimum

◊ Completion prior to admittance to upper division strongly encouraged

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**Suggested Arrangement of Courses:**

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	MA 16100 or MA 16500	see myPurdue	4-5	MA 16200 or MA 16600	see myPurdue
4	ENGL 10600/ ENGL 10800		3	COM 11400	
4	CHM or PHYS	see myPurdue	4	CHM or PHYS	see myPurdue
3	PSY 12000 or SOC 10000		3	UC Humanities	
			1	MGMT 30100	
<b>15-16</b>			<b>15-16</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	MGMT 20000		3	STAT 22500	MA 16200 C- or higher
3	ECON 25100		3	MGMT 20100	MGMT 20000 C- or higher
4	MA 26100		3	ECON 25200	
3	CS 23500	MA 15400 or higher	3	Free Elective	
3	UC Science Tech & Society		3	International Elective	
<b>16</b>			<b>15</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	ENGL 42000	ENGL 10600 or ENGL 10800 D- or higher	3	International Elective	
3	MGMT 30500	STAT 22500 C- or higher	3	MGMT 30600	(pre or co-req MGMT 30500)
3	MGMT 31000	MGMT 20100 C- & ECON 25100 & STAT 22500 C- or higher	3	OBHR 33000	
3	MGMT 32400	MGMT 20100 C- & ECON 25100 C- or higher	3	MGMT 36100	STAT 22500 C- or higher
3	Manufacturing & Service Operations Management Required Courses		3	Manufacturing & Service Operations Management Required Courses	
<b>15</b>			<b>15</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MGMT 38200	CS 23500 C- or higher	3	MGMT 44428 (Formerly OBHR 42800)	OBHR 33000 & MGMT 30500 C- or higher
3	MGMT 35400		3	MGMT 45100	MGMT 20100 C- & ECON 25100 C- or higher, junior standing
3	ECON 41900	ECON 25100	3	Manufacturing & Service Operations Management Required Courses	
3	Manufacturing & Service Operations Management Required Courses		3	Manufacturing & Service Operations Management Required Courses	
3	General Elective		1	General Elective (if necessary)	
<b>15</b>			<b>13</b>		
			<b>Total Credits</b>		<b>120</b>

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