Bachelor of Science in Industrial Management  
Major: Financial Engineering  
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](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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON 25100 Microeconomics <em>UC</em></td>
<td>satisfies Behavioral/Social Science for core</td>
</tr>
<tr>
<td>ENGL 10600 First-Year Composition or ENGL 10800 (3cr)</td>
<td>Accelerated First-Year Composition <em>UC</em> satisfies Written Communication for core</td>
</tr>
<tr>
<td>MA 16100/MA 16500 Analytic Geometry &amp; Calculus I <em>UC</em></td>
<td>satisfies Quantitative Reasoning for core</td>
</tr>
<tr>
<td>MA 16200/MA 16600 Analytic Geometry &amp; Calculus II (MA 16100 C- or higher)</td>
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<tr>
<td>MGMT 20000 Introductory Accounting</td>
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### School of Management Foundations

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

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<td>34000</td>
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<td>COM 22400</td>
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<td>33900</td>
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<td>POL 13000</td>
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<td>14100</td>
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<td>42210</td>
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<td>45900</td>
<td></td>
</tr>
<tr>
<td>50900</td>
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</tbody>
</table>

* Completion prior to admittance to upper division strongly encouraged

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

Revised 03/27/2015 LG (effective Fall 2015)
Chemistry or Physics 8 Hours must be completed prior to admission to Upper Division

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>Physics</th>
</tr>
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<tbody>
<tr>
<td>11500 (4cr)</td>
<td>17200 (4cr)</td>
</tr>
<tr>
<td>11600 (4cr)</td>
<td>21800 (4cr)</td>
</tr>
<tr>
<td>12300 (4cr)</td>
<td>21900 (4cr)</td>
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<tr>
<td>12400 (4cr)</td>
<td>22000 (4cr)</td>
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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](http://www.purdue.edu/provost/initiatives/curriculum/course.html)
- 3 UC Science, Technology & Society *UC* [http://www.purdue.edu/provost/initiatives/curriculum/course.html](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 30500 Business Statistics
- 3 MGMT 30600 Management Science
- 3 MGMT 31000 Financial Management
- 3 MGMT 32400 Marketing Management
- 3 MGMT 35400 Legal Foundations of Business I
- 3 MGMT 36100 Operations Management
- 3 MGMT 38200 Management Information Systems
- 3 MGMT 45100 Strategic Management
- 3 MGMT 44428 Human Resource Management
- 3 ECON 41900 Managerial Economics

**Financial Engineering Upper Division Required Courses**

Complete 5 of the following courses for 15 credits / Must have completed MGMT 30100 or IE 34300 prior to starting these course

- 3 MGMT 41100 Investment Management
- 3 MGMT 41200 Financial Markets and Institutions
- 3 MGMT 41500 International Finance
- 3 MGMT 49000 Advance Spreadsheet Modeling
- 3 MGMT 49000 Predictive Analytics
- 3 MGMT 49000 Futures and Options
- 3 ECON 51100 Macroeconomics Theory
- 3 ECON 56200 Econometrics
- 3 IE 53500 Linear Programming (Pre-requisite IE 33500 and CS 15900 (15600) or CS 18000)
- 3 IE 53800 Nonlinear Optimization Algorithms and Models (pre-requisites IE 33500 and CS 15900 (15600))
- 3 IE 54600 Economic Decisions in Engineering (pre-requisite IE 33600)
- 3 IE 58100 Simulation Design and Analysis (pre-requisite CS 15900, IE 33000, IE 33600)
- 3 IE 59000 Financial Engineering (Summer Only)

**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](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

*UC* Fullfills University Core requirement

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

Revised 03/27/2015 LG (effective Fall 2015)
## Suggested Arrangement of Courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 1st Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 1st Year</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>4-5</td>
<td>MA 16100 or MA 16500</td>
<td>see myPurdue</td>
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<td>MA 16200 or MA 16600</td>
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<td>COM 11400</td>
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<td>4</td>
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<td>CHM or PHYS</td>
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<tr>
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<tr>
<td>3</td>
<td>ENGL 42000</td>
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<table>
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<tr>
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<tr>
<td>3</td>
<td>MGMT 38200</td>
<td>CS 23500 C- or higher</td>
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<td>MGMT 44428 (Formerly OBHR 42800)</td>
<td>OBHR 33000 &amp; MGMT 30500 C- or higher</td>
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<td>MGMT 35400</td>
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<td>MGMT 45100</td>
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**Total Credits: 120**

◊ Completion prior to admittance to upper division strongly encouraged

*UC* Fulfills University Core requirement

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