

Industrial Management
Science, Technology, Engineering, and Math
Krannert School of Management
Fall 2016

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

Required Major Upper Division Courses (33 credits)

- _____ (3) OBHR 33000 Organizational Behavior
- _____ (3) MGMT 30500 Business Statistics **(Prerequisite: STAT 22500 C- or higher)**
- _____ (3) MGMT 31000 Financial Management **(Prerequisite: MGMT 20100 & ECON 25100 & STAT 22500 C- or higher)**
- _____ (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) MGMT 44428 Human Resource Management **(Prerequisite: MGMT 30500 or STAT 35000 C- or higher)**

Major Selectives* - Complete 15 credit hours from the following courses (15 credits)

- _____ (3) AAE 20300 Aeromechanics **(Prerequisite: PHYS 17200/PHYS 16200 & 16300)**
- _____ (3) AAE 25100 Intro to Aerospace Design **(Prerequisite: ENGR 13200 & CGT 16300 & AAE 20000)**
- _____ (3) BME 20100 Biomolecules: Structure, Function & ENGR Applications **(Prerequisite: CHM 11600 C- or higher & BIOL 23000)**
- _____ (4) CE 20300 Principles 7 Practices of Geomatics **(Prerequisite or Co-Requisite: CGT 16400 C- or higher)**
- _____ (3) CE 29700 Basic Mechanics I: Statics **(Prerequisite or Co-Requisite: MA 26100/MA 27100/MA 18200/MA 26300 C- or higher)**
- _____ (3) CEM 20100 Life Cycles Engineering & Management
- _____ (3) CS 15900 Programming Applications for Engineering **(Prerequisite or Co-Requisite: ENGR 11600/ENGR 12600/ENGR 13100)**
- _____ (3) ECE 20100 Linear Circuit Analysis I **(Prerequisite: MA 16200/MA16600 C- or higher & ENGR 13100/ENGR 13300/ENGR 14100 & PHYS 17200/PHYS 15200; Prerequisite or Co-Requisite: MA 17400/MA18200/MA 26100/MA 27100)**
- _____ (2) ENGR 13100 Transforming Ideas to Innovation I
- _____ (2) ENGR 13200 Transforming Ideas to Innovation II **(Prerequisite: ENGR 13100 C- or higher)**
- _____ (3) IE 23000 Probability & Statistics in Engineering **(Prerequisite: MA 17400/MA18200/MA 26100/MA 26300/MA 27100)**
- _____ (3) IE 34300 Engineering Economics **(Prerequisite: ENGR 13100/ENGR 14100)**
- _____ (3) MA 26500 Linear Algebra **(Prerequisite or Co-Requisite: MA 26100 C- or higher)**
- _____ (3) ME 20000 Thermodynamics **(Prerequisite or Co-Requisite: MA 26100/ MA 26300 & CHM 11500/CHM 12300 & ENGR 13200/ENGR 13300/ENGR 14200)**
- _____ (3) ME 27000 Basic Mechanics I **(Prerequisite: PHYS 17200 & MA 16200/MA 16600/MA 18100; Prerequisite or Co-Requisite: MA 26100/MA 26300 & ENGR 13200/ENGR 13300/ENGR 14200)**
- _____ (3) MSE 23000 Structure & Properties of Materials **(Prerequisite: CHM 10900/CHM 11500/CHM 13500 & MA 16100/MA 16300/MA 16500)**
- _____ (3) MSE 23500 Materials Properties Laboratory **(Prerequisite: CHM 10900/CHM 11500/CHM 13500 & MA 16100/MA 16300/MA 16500)**
- _____ (3) NUCL 20000 Introduction to Nuclear Engineering **(Prerequisite: MA 16200/MA 16400/MA 16600 & PHYS 15200/PHYS 17200)**
- _____ (3) PHYS 24100 Electricity & Optics **(Prerequisite: MA 16200/MA 16400/MA 16600 & PHYS 15200/PHYS 17200)**

◇ Completion prior to admittance to Upper Division strongly encouraged

UC Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

Industrial Management/ STEM

Suggested Arrangement of Courses:

| Credits | Fall 1st Year | Prerequisite | Credits | Spring 1st Year | Prerequisite |
|----------------------|--------------------------------|--|--------------|---------------------------|---|
| 4-5 | MA 16100 or MA 16500 (CC) | ALEKS 085 or SAT MATH 650 or ACT MATH 29 | 4-5 | MA 16200 or MA 16600 (CC) | MA 16100 or MA 16500 |
| 4 | ENGL 10600/ ENGL 10800 (CC) | | 3 | COM 11400 | |
| 4 | CHM or PHYS (CC) | C- or higher | 4 | CHM or PHYS (CC) | C- or higher |
| 3 | PSY 12000 or SOC 10000 | | 3 | UC Humanities | |
| | | | 1 | MGMT 29500 (CC) | Must complete in the first or second year |
| 15-16 | | | 15-16 | | |
| Credits | Fall 2nd Year | Prerequisite | Credits | Spring 2nd Year | Prerequisite |
| 3 | MGMT 20000 (CC) | | 3 | STAT 22500 | MA 16200 C- or higher |
| 3 | ECON 25100 (CC) | | 3 | MGMT 20100 | MGMT 20000 C- or higher |
| 4 | MA 26100 | | 3 | ECON 25200 | |
| 3 | CS 23500 | Co-requisite: MA 15400/MA 15910/MA 15800/ MA 16500/MA 22300/MA 16010 | 3 | International Elective | |
| 3 | UC Science Tech & Society | | 3 | General Elective | |
| 16 | | | 15 | | |
| 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 or STAT 35000 C- or higher |
| 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 | ECON 41900 | ECON 25100 |
| 3 | Required STEM Course | | 3 | Required STEM Course | |
| 15 | | | 15 | | |
| Credits | Fall 4th Year | Prerequisite | Credits | Spring 4th Year | Prerequisite |
| 3 | MGMT 38200 | CS 23500 C- or higher | 3 | MGMT 44428 | MGMT 30500 or STAT 35000 C- or higher |
| 3 | MGMT 35400 | | 3 | MGMT 45100 | MGMT 20100 C- & ECON 25100 C- or higher |
| 3 | MGMT 36100 | STAT 22500 C- or higher | 3 | Required STEM Course | |
| 3 | Required STEM Course | | 3 | Required STEM Course | |
| 3 | General Elective | | 2 | General Elective | |
| 15 | | | 14 | | |
| Total Credits | | | | 120 | |

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

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

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CC Critical Course to satisfy MAI requirements