

Management Information Systems

Prerequisite Courses

MGMT 38200 MGMT Information Systems
MGMT 29000 Programming for Business Applications (preferred)
OR CS 17700 Programming with Multimedia Object
CS 18000 Programming I

Successfully complete the following courses

MGMT 54400 Database Management Systems
MGMT 54500 Systems Analysis & Design
MGMT 54700 Computer Communications Systems

Successfully complete 1 of the following courses

MGMT 48800 Electronic Commerce & Information Strategies
MGMT 59000 Adv. Data Management for Decision Making

Industrial Engineering

Complete the following courses:

IE 47700 Work Methods & Measurement
IE 53000 Quality Control
IE 53300 Industrial Applications of Statistics
IE 54500 Engineering Economic Analysis
IE 54600 Economic Decisions in Engineering
IE 55600/
PSY 55600 Socio-Technical Aspects of Job Design
IS 55800 Safety Engineering
IE 56600 Production Management Control
IE 57700/
PSY 57700 Human Factors in Engineering
IE 59000 Financial Engineering

Quantitative Methods

Complete the following course:

MA 26200 Linear Algebra & Differential Equations
IE 33600 Principals of Operations Research II
IE 53600 Stochastic Models in Operations Research I
IE 53700 Integer Programming & Network Flows
STAT 51200 Applied Regression Analysis

Manufacturing Management

Complete the following courses:

MGMT 45200 Manufacturing Strategy
MGMT 46200 Adv. Manufacturing Planning and Control Systems

Complete 1 of the following courses:

MGMT 40500 Tools & Methods for Total Quality Management
OBHR 47000 MGMT of Adv. Manufacturing Organizations

Complete 2 of the following courses:

MFET 40000 Computer-Integrated Manufacturing
IE 47700 Work Methods & Measurement
IE 53000 Quality Control
MGMT 40500 Tools & Methods for Total Quality Management
MGMT 49000 Technology Strategy
MGMT 54400 Database Management Systems
MGMT 54500 Systems Development
OBHR 42900 Labor Relations
OBHR 47000 MGMT of Adv. Manufacturing Organizations

Operations Management

Complete the following courses:

MGMT 46200 (3cr.) Adv. Manufacturing Planning & Control Systems
or
MGMT 56000 (2cr.) Manufacturing Planning & Control
MGMT 49000 (3cr.) Logistics: Concepts & Models
Complete remaining hours in the following courses:
MGMT 45200 (3cr.) Manufacturing Strategy
MGMT 56100 (2cr.) Logistics
MGMT 56200 (2cr.) Project Management
MGMT 56400 (2cr.) Management of Service Operations
MGMT 59000 (2cr.) Strategic Sourcing & Purchasing Management

Notes:

- 2 credit hours courses are 8 week modules
- IM major professional elective requires 3 credit hrs.
- Additional MGMT 4000 & 50000 level Operations Management elective when available

Computer Science

Complete the following courses with a "C" or higher. All courses require permission from the CS department to enroll:

www.cs.purdue.edu/courses/courses.html

CS 18000 Programming I
CS 18200 Foundations of Computer Science
CS 24000 Programming in C
CS 25000 Computer Architecture
CS 25100 Data Structure
One CS 30000 or 40000 level course.

Economics Honors

Students must have a 3.3 in all ECON courses and an overall GPA of 3.3 to pursue ECON Honors.

Complete the following courses:

ECON 41500 Economic Policy
ECON 34000 Intermediate Microeconomics
ECON 35200 Intermediate Macroeconomics
ECON 36000 Econometrics
ECON 49900 Senior Honors Theses
One ECON 30000 or 40000 level course

Economics

Complete the following courses:

ECON 34000 Intermediate Microeconomics
ECON 35200 Intermediate Macroeconomics
Three additional ECON 30000 or 40000 level courses

Notes:

- To enroll in all MGMT, ECON & OBHR 30000 level or higher courses you must be in upper division
- Pre/Co-requisites can be found on MyPurdue and the Krannert Undergraduate website.
- Only one course can be shared between two minors.
- MGMT, ECON and OBHR courses must be taken at Purdue University, West Lafayette and may not be taken through correspondence or online.
- The School of Management CANNOT guarantee the offerings of non MGMT, ECON or OBHR courses.

A minimum of 15 credit hours is required

Not available to students outside of the School of Management

Earth & Atmospheric Sciences

Complete the following courses:

EAS 11100 Physical Geology
EAS 22100 or Intro to Atmospheric Science
EAS 22500 Science of the Atmosphere
EAS 23000 Laboratory in Atmospheric Sciences

Complete 10 additional credit hours in EAS:

Only one of the additional courses may be at the 10000 level.

All courses for this minor must be taken at Purdue

Biological Sciences

Pre-requisite courses:

CHEM 11500 (4cr) General Chemistry
CHEM 11600 (4cr) General Chemistry

Complete 1 of the following courses:

BIOL 11000 (4cr) Fundamentals of Biology
BIOL 11100 (4cr) Fundamentals of Biology
BIOL 12100 (2cr) Biology I: Diversity, Ecology, & Behavior
BIOL 13100 (3cr) Biology II: Develop/Structure/Function of Organisms
BIOL 13600 (.5cr) Quantitative & Problem Solving Skills
BIOL 13700 (.5cr) Handling Cells & Tissues; Microscopy
BIOL 13800 (.5cr) Information & Communication Skills
BIOL 13900 (.5cr) Measurements & Basic Solution Chemistry

Complete the following courses:

BIOL 23100 (3cr) Biology III: Cell Structure & Function or BIOL 29500 Biology of the Living Cell (3cr)
BIOL 23200 (2cr) Lab in Biology III

Complete the Biology or the Agronomy sequence:

BIOL 24100 (3cr) Biology IV: Genetics & Molecular Biology
BIOL 24200 (2cr) Lab in Biology IV
AGRY 32000 (3cr) Genetics
AGRY 32100 (1cr) Genetics Laboratory

Math

Complete 1 of the following courses:

MA 26500 Linear Algebra
MA 35000 Elem. Linear Algebra Honors
MA 35100 Elem. Linear Algebra
MA 51100 Linear Algebra with Applications

Complete 1 of the following courses:

MA 34100 Foundations of Analysis
MA 44000 Real Analysis
MA 45000 Algebra Honors
MA 45300 Elements of Algebra

Complete 2 of the following courses:

MA 30100 Introduction to Proof through Real Analysis
MA 34100 Foundations of Analysis
MA 35300 Linear Algebra II
MA 36200 or Topics in Vector Calculus
MA 51000 Vector Calculus
MA 36600 Ordinary Differential Equations
MA 37500 Intro. To Discrete Mathematics
MA 42500 or Elements of Complex Analysis
MA 52500 Intro to Complex Analysis
MA 44000 Real Analysis – Honors
MA 45000 Algebra - Honors
MA 45300 Elements of Algebra
MA 45400 Galois Theory – Honors
MA 52000 Boundary Value Problems of Differential Equations
MA 52300 Introduction to Partial Differential Equations

Statistics

Complete the following courses:

STAT 51200 Applied Regression Analysis
STAT 51300 Statistical Quality Control
STAT 51400 Design of Experiments
STAT 52200 Design of Experiments

Complete 1 of the following courses:

IE 33500 Operations Research I
IE 33600 Operations Research II
STAT 41600 Probability
STAT 50600 Statistical Programming and Data MGMT

All courses for this minor must be taken at Purdue.

Chemistry

Pre-requisite courses:

CHEM 11500 General Chemistry
CHEM 11600 General Chemistry

Complete 16 hours beyond general chemistry.

CHEM 22400, CHEM 25700, and CHEM 33300 cannot be used to fulfill this requirement; 3 credits of CHEM 49900 may be used to fulfill this requirement.

Recommended Courses:

CHEM 24100 Inorganic Chemistry
CHEM 25500 Organic Chemistry
CHEM 25501 Organic Chemistry Lab
CHEM 25600 Organic Chemistry
CHEM 25601 Organic Chemistry Lab
CHEM 32100 Analytical Chemistry I

Physics

Complete 1 of the following courses:

PHYS 15200 (4cr) Mechanics
PHYS 16200 & Particles, Kinematics, & Conservation Laws
PHYS 16300 (5cr) Mechanics, Heat & Kinetic Theory

Complete 1 of the following courses:

PHYS 24100 Electricity and Optics
PHYS 26100 (4cr) Electricity and Optics
PHYS 27100 (5cr) Electricity and Magnetism

Complete 1 of the following courses:

PHYS 34200 Modern Physics
PHYS 34400 Modern Physics - Honors

Complete 1 of the following courses:

This requirement is not necessary if PHYS 25100 is taken.

PHYS 25200 (1cr) Heat Electrical Optics Lab
PHYS 27101 Electricity & Magnetism –Honors
PHYS 34201 (1cr) Modern Physics Lab
Complete 6 additional credit hours from 30000, 40000, or 50000 level courses in Physics or Astronomy.