Management Science

Join us for an adventure in education.
A Management Science major can only earn a Bachelor of Science in Business Administration (BSBA).

The Management Science department serves the University in the general areas of applied statistics and operations research. Management Science emphasizes quantitative problem definition, modeling, solution, analysis and implementation.

A Management Science concentration prepares students to apply mathematics, statistics and computer models to problems of business, industry and government. Application areas of special interest include manufacturing, the environment, urban planning, law enforcement, transportation, education, and health care delivery.

Emphasis is placed on the consideration of the overall system under study from the viewpoint of its goals, the various means of achieving these goals, and finally the quantitative evaluation of the effectiveness of the proposed solution alternatives. Thus, while the unifying theme of the program is methodology, the primary objective is the analysis of real problems.

A major or minor in Management Science is recommended to qualified students as preparation for graduate work and for direct entry into the field of Management Science.

All courses in a major or minor in Management Science must be completed with a grade of “C” or higher and have a cumulative GPA of 2.5 or higher in the Management Science major or minor course work. The coursework for obtaining a major or a minor in Management Science is as follows:

**Required Courses (18 credits)**
- MAS 441 Deterministic Models in Operations Research
- MAS 442 Stochastic Models in Operations Research
- MAS 452 Systems Analysis Methodology and Applications
- MAS 547 Computer Simulation Systems
- CIS 320 Introduction to Programming

**Elective**
Select one of the following:
- MAS 548 Systems Dynamics Modeling and Analysis
- CIS 323 Object Oriented Programming C++
- CIS 324 Object Oriented Programming in Java
- CIS 360 Analysis of Information Systems

Several courses may have one or more prerequisites. All prerequisites must be completed before enrolling in a required course.

Some classes from the faculties of engineering may be substituted with the permission of the department chairman or your academic advisor.

**Management Science Minor**
To earn a minor, students must complete all pre-requisites for the nine credits of MAS and are required to maintain a GPA of 2.5.
- MAS 441 Deterministic Models in Operations Research
- MAS 442 Stochastic Models in Operations Research
- MAS 452 Systems Analysis Methodology and Applications

**Additional Areas of Study**
- Accounting
- Computer Information Systems
- Economics
- Entrepreneurship
- Finance
- Health Sector Management & Policy
- Human Resource Management
- International Finance & Marketing
- Legal Studies
- Management
- Marketing
- Real Estate

**Application Deadlines:**
- Early Decision
  - November 1
- Early Action
  - November 1
- Regular Decision
  - January 15

Schedule Your Personal Information Session Today. We’ll answer your questions about the School of Business, our programs and the world of opportunities that await you.