

Systems Analysis and Design Career Track

MSIS Advising Sheet

Overview

An *information system* (IS) is a repeatable way to create value with information. In decades past, organizations *used* IS to boost their productivity. Today, the IS *is* the business, so information systems designers are now critical to the success of most organizations. A system analyst is to an information system what a director is to a movie. They are creative visionaries who conceive new ways to create value with information. They work with stakeholders to design new, useful information capabilities and they design processes for using those capabilities to create value. A systems analyst oversees the computer scientists and other specialists who develop the technical components of the system (not all the components are technical). Like a director, they draw all the elements together as a finished system and release it to the organization. The MSIS is an ideal degree from which to launch a career in systems analysis. It prepares students to understand and improve the ways organizations can protect and optimize returns on its intellectual capital, and the ways to use its systems to enhance offerings to stakeholders, and to gain sustainable strategic advantage.

The Systems Analysis and Design career track begins with the Business Core courses required for all MSIS students to develop a general understanding of business issues. It continues with data management and technology courses from the MSIS IS Technology requirement, and information management courses from the MSIS IS Information Management and Analytics requirement. Students are then encouraged to select courses from the Systems Analysis and Design Career Track, which includes offerings from a variety of disciplines to further development their information systems competencies, and to learn the application of these skills across multiple domains. The MSIS career track is ideal for any graduate business student seeking a systems analysis and design position. A Systems Analysis and Design career path can lead to executive positions such as Enterprise Architect, Chief Data Officer, Chief Information Officer, and Chief technology officer.

MSIS Requirements

Business Core (9 units) (Waiveable)

1. B A 625. Financial and Management Accounting (3)
2. B A 627. Marketing (3)
3. B A 628. Operations and Supply Chain Management (3)

IS Technology (9 units – choose 3 of the following)

1. **Recommended:** MIS 686. Enterprise Data Management (3)
2. **Recommended:** MIS 687. Business Data Communications (3)
3. **Recommended:** MIS 695. Business Systems Analysis and Design (3)
4. MIS 691. Decision Support Systems (3)
5. MIS 697. Project Planning and Development (3)
6. MIS 752. Seminar in Supply Chain and Enterprise Resource Planning (3)

Master of Science in Information Systems

A STEM DEGREE

IS Management & Analytics (9 units – choose 3 of the following)

1. **Recommended:** MIS 688. Information Systems and Strategies in Organizations (3)
2. **Recommended:** MIS 750. Strategic Project Management (3)
3. **Recommended:** MIS 755. Information Systems Security Management (3)
4. B A 623. Statistical Analysis (3)
5. MIS 748. Seminar in Applied Multivariate Analytics (3)
6. MIS 749. Business Analytics (3)

Thesis Option or Directed Readings with Examination (3 units)

1. B A 799A. Thesis Research (3)
2. MIS 790. Directed Readings in MIS (3)

Systems Analysis and Design Career Track (12 units – choose 4 of the following)

1. **Recommended:** MIS 755. Information Systems Security Management (3)
2. MIS 697. Project Planning and Development (3)
3. MIS 691. Decision Support Systems (3)
4. STAT 702. Data Mining Statistical Methods (3)
5. MIS 744. Seminar in Lean Six Sigma and Baldrige Quality Management (3)
6. MIS 750. Strategic Project Management (3)
7. MIS 752. Seminar in Supply Chain and Enterprise Resource Planning (3)
8. Alternative courses may be identified by working with an advisor.

Open Elective (3 Units)

Note: For students pursuing the Systems Analysis and Design Career Track, we recommend satisfying the 3 units of open elective by selecting an additional course from the Systems Analysis and Design courses listed above.

Advising

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