PennState
Smeal College of Business

Supply Chain and Information Systems

Students majoring in Supply Chain and Information Systems have access to the Smeal Business Career Center. More information can be found at: **careerconnections. smeal.psu.edu/channels/supply-chain-information-systems**.

In addition to job-placement services, the department partners with the Center for Supply Chain Research (CSCR) in hosting a fall and spring career fair attended by more than 100 companies.

Career Overview

A supply chain encompasses business functions and enterprises interconnected by resource flows of goods, services, information, and funds. Supply chain management spans these interconnected networks to acquire, produce, and deliver goods and services in our global economy.

Scan the QR code to watch the Video on the Supply Chain and Information Systems (SCIS) Program:

Major Overview

Students selecting the SCIS major develop excellent knowledge and skills in three critically important areas:

- Core functions, which include source, make, deliver, and return
- The role of data analytics and information systems as the critical enablers for integrating supply chains
- The cross-functional planning perspectives that span core functions, customer relationships, post-sales support, and new product design and launches

SCIS emphasizes real world content and exposure to best practices from internships, case studies, visiting business leaders, industry partnerships, company-sponsored research projects, study abroad opportunities, and professional development workshops.

Employment Prospects

Students majoring in Supply Chain and Information Systems (SCIS) gain knowledge, skills, and expertise to manage multiple facets of organizations and businesses. They become leaders in acquiring, producing, and delivering goods around the world. They are experts at integrating people, processes, and informational technology in order to produce successful supply chains. SCIS graduates have opportunities to work in fields including production, logistics, transportation, and more.

Preparing to Enroll in the Major

Enrollment in the SCIS major is contingent upon several criteria, which include the timing and completion of a specified range of cumulative credits at Penn State. Students apply for the major once they have earned a minimum of 36 but no more than 59 cumulative credits. These credits include required business foundation and related courses. In addition to the course and credit window requirements, students must attain an overall competitive GPA in all courses.

smeal.psu.edu/scis

SCIS Major Requirements

Complete all of the following Supply Chain Management (SCM) courses (15 credits). A grade of "C" or better is required in all SCM courses, including SCM 301:

SCM 404 (3): Demand Fulfillment (Prerequisite: SCM 301)

SCM 405 (3): Manufacturing and Service Strategies (Prerequisite: SCM 301)

SCM 406 (3): Strategic Procurement (Prerequisite: SCM 301)

SCM 421 (3): Supply Chain Modeling and Analysis (Prerequisite: SCM 404 or 405 or 406)

SCM 450W (3): Design and Management of Supply Chains (Prerequisite: SCM 421)

Select a Two-Piece Sequence

(6 credits) from the areas below or complete a designated University minor.

- Accounting
- Business Law
- Business Sustainability
- Corporate Diversity
- Corporate Innovation and Entrepreneurship
- Economics
- Finance
- Information Systems Management (ISM)
- International Business
- Management
- Marketing
- Real Estate
- Risk Management

SCIS Highlights

Consider some of the other factors that help to enhance the environment for SCIS students at the Smeal College of Business.

A Tradition of Excellence

We are...

- One of the first and largest supply chain programs
- Leading faculty in supply chain research, teaching, and executive education
- One of the largest engaged alumni networks in supply chain management

Student Events

The SCIS Department hosts a variety of student events each year, including fall and spring career fairs and career exploration sessions for SCIS majors. First-year and second-year students can also learn more about majors, careers, and involvement opportunities at Explore Smeal.

Information Systems Management (ISM) Minor

The ISM minor focuses on technology-supported techniques for exploring, analyzing, integrating, and reporting business data to facilitate fact-based decisions. The coursework enables students to study basic concepts, principles, and methods for business analytics and to gain an understanding of the best practices for aligning IT-supported analytics with business strategy. SCIS students with a strong understanding of business analytics are highly sought after by recruiters.

Contact Information

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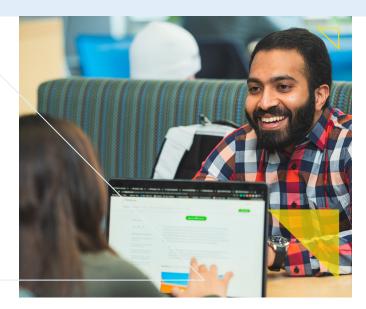
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Management Information Systems

Career Overview

Data is everywhere: location-based from smart phones, social media, text, corporate data, and more. Companies need to analyze this data to get meaningful information to the people who need it. Hence, Management Information Systems (MIS) lives in the space that intersects technology and business. Our graduates create and use technology tools to improve and benefit businesses.

"For business leaders, analytics is no longer just a technology issue, it is a strategy and operational issue. Big data and analytics is a disruptive innovation that is transforming our everyday lives. Enterprises need a holistic plan for creating competitive advantage, identifying opportunities and ultimately measuring value. We believe that there is tremendous value to be gained by those organizations that leverage analytics to transform their business processes and how they make decisions."

Chris Mazzi and Carmine Di Sibio, EY

Management Information Systems professionals use business intelligence tools to design informative and graphical applications, allowing executives to make strategic decisions analytically. Smeal MIS graduates are well prepared for careers in industry, consulting, and government sectors as business analytics specialists and systems analysis professionals.

Employment Prospects

The MIS major has one of Smeal's highest average starting salaries with very strong placement rates. Students majoring in Management Information Systems have countless options when thinking about internships and full-time jobs. Career paths for MIS students include consulting, analytics, systems analysts, and data analysts. Companies hiring MIS students include Deloitte, KPMG, Manhattan Associates, and PWC. MIS majors gain core competencies to succeed in their fields by learning to explore, analyze, integrate, and report business data; students excel in developing proficiency in business analytics, competency in system analysis and design, and mastering of core business processes.

Students majoring in Management Information Systems have access to the Smeal Business Career Center.
More information can be found at: **careerconnections.smeal.psu.edu/ channels/management-information- systems.**

In addition to job-placement services, the department partners with the Center for Supply Chain Research (CSCR) in hosting a fall and spring career fair attended by more than 100 companies.

Major Overview

The MIS major focuses on technology-supported techniques for exploring, analyzing, integrating, and reporting business data to facilitate fact-based decision making and enterprise-wide management. MIS students develop proficiency in business analytics, competency in systems analysis and design, and mastery of core business processes.

Preparing to Enroll in the Major

Enrollment in the MIS major is contingent upon several criteria, which include the timing and completion of a specified range of cumulative credits at Penn State. Students apply for the major once they have earned a minimum of 36 but no more than 59 cumulative credits.

Management Information Systems

These credits include required business foundation and related courses. In addition to the course and credit window requirements, students must attain an overall competitive GPA in all courses.

MIS Major Requirements

Complete all the following Management Information Systems courses (18 credits). A grade of "C" or better is required in all MIS courses, including MIS 250.

MIS 301 (3): Business Analytics (Prerequisites: SCM 200 or STAT 200; Concurrent: MATH 110 or MATH 140, MIS 250)

MIS 431 (3): Business Data Management (Prerequisite: MIS 301; Concurrent: SCM 301)

MIS 432 (3): Business Information System Analysis (Concurrent: MIS 431)

MIS 441 (3): Business Intelligence for Decision Making (Prerequisite: MIS 431)

MIS 446 (3): Information Technology and Business Strategy (Prerequisite: MIS 301)

MIS 479W (3): Enterprise Information Systems (Prerequisite: MIS 432)

Select a Two-Piece Sequence

(6 credits) from the areas below or complete a designated University minor.

- Accounting
- Business Law
- Business Sustainability
- Corporate Diversity
- Corporate Innovation and Entrepreneurship
- Economics
- Finance
- International Business
- Management
- Marketing
- Real Estate
- Risk Management
- Supply Chain and Information Systems

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MIS Highlights

Consider some of the other factors that help to enhance the environment for MIS students at the Smeal College of Business.

Top Ranked

Penn State and Smeal have consistently received top rankings from employers. INFORMS is the largest professional association for decision and data sciences. In 2011, INFORM's Board of Directors put together a vigorous new strategic plan with an eye on the burgeoning field of data analytics. In 2012, Smeal Professor of Supply Chain and Information Systems Terry P. Harrison was President of INFORMS. During his term as president, he helped lay the four cornerstones of the new plan to define the data analytics field, introduce certification, expand outreach, improve INFORM's IT backbone, and start continuing education courses.

Student Events

The Supply Chain and Information Systems Department hosts a variety of student events each year, including fall and spring career fairs and career exploration sessions for MIS majors. First-year and second-year students can also learn more about majors, careers, and involvement opportunities at Explore Smeal.

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