

INFORMATION MANAGEMENT CONCENTRATION

The concentration in information management develops managerial insights on how digital innovations can disrupt existing business models and enable organizational transformations. You will acquire the technology savvy needed to navigate the dual purpose of organizational investments in IT – operations enablement and transformative innovations.

The courses also strengthen essential problem-solving and problem-framing skills needed for a consulting career and for making critical decisions about effectively incorporating technology into enterprise-level, organizational, and functional strategy and operations.

Required Courses

CIS 510: Business Process and Workflow Analysis

Builds the foundation for process analysis by focusing on information, documents, people, roles, and business rules. Provides an introduction to various techniques and tools of process analysis, including an understanding of organizational issues in rolling out change initiatives.

CIS 545: Managing Enterprise Systems

Investigates major categories of enterprise systems, factors driving software adoption and keys for successful implementation. Discusses best practices for implementing enterprise systems and addressing common organizational and technology challenges.

CIS 575: Emerging Technologies

Explores decision models and frameworks applied to assess, evaluate and implement new technologies. Provides context for applying the decision models and frameworks, including artificial intelligence, Big Data, 3D printing, Internet of Things (IoT), mobile platforms and devices, semantic web, collaboration technologies, and other emerging technologies.

Electives

CIS 505: Introduction to Enterprise Analytics (or CIS 506 but not both)

Ensures the foundational understanding of contextualized analytics within the business enterprise continuum, covering how data flows and is managed across the landscape of business processes.

CIS 506: Information Management (or CIS 505 but not both)

Addresses central issues in managing information to achieve competitive advantage and support innovation. Specific topics covered include data modeling using entity relationship (ER) diagrams, data quality, building analytic capability, and providing user-friendly access to organizational data.

CIS 508: Data Mining I

Charts a roadmap for data-driven decision making and getting a practical understanding of how IT tools and techniques can allow managers to extract predictive analytics and patterns from data.

CIS 540: Enterprise Information Security and Controls

Provides a broad survey of information security and controls, utilizing the COBIT framework to illustrate how information security and controls contribute to effective IT governance. Develops an understanding of the issues associated with information security and effective IT governance, assesses effectiveness of information security alternatives, and designs an organizational information security program.

CIS 560: IT Services and Project Management

Focuses on key aspects of commoditization of hardware, software, and business processes. Introduces the IT product development and service delivery processes with sound management principles for on-budget and on-time projects that meet end-user needs.

Course list subject to change without notice. Some courses have prerequisites and/or an application process. Please contact your program coordinator for information.

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CIS 591: Information Enabled Business Models

Explores how different industries and organizational functions are deriving value from big data, the challenges they're encountering, and how to avoid pitfalls. Addresses the value and importance of adopting data science and building an analytical culture within an organization, and how companies utilize big data as part of their business strategy.

Career Paths

- Information security and IT governance
- Process analysis
- Project management
- Strategic IT planning
- Consulting

Notable Employers

- American Express Company
- P.F. Chang's China Bistro, Inc.
- Microsoft Corporation
- Amazon.com, Inc.

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