

Information Systems (ITIS)

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ITIS 5000 [0.5 credit]

Introduction to Data Science for Business

Machine learning; statistics; data science; data ethics; data cleaning; data preparation; data visualization; communication skills to explain advanced analytics. Precludes additional credit for DATA 5000.

ITIS 5401 [0.25 credit]

Managing Information Systems in Organizations

Key issues in managing of information systems in organizations. Business and information technology challenges faced by managers and how decisions are made about acquiring, deploying, and using information technologies to achieve business objectives. Includes: Experiential Learning Activity

ITIS 5403 [0.25 credit]

ICT for Development

Conceptual frameworks to understand the prospects and challenges and roles of information and of information and communications technologies (ICTs) in social and economic development; knowledge and skills to help in the effective planning, development, implementation and management of ICT for development initiatives; case studies. Includes: Experiential Learning Activity

ITIS 5405 [0.25 credit]

AI for Managers

Critical factors to successfully enable and leverage AI within organizations. Introduction to AI concepts, AI strategy, economics of AI, organizational AI Readiness, legal and regulatory issues in managing AI, AI risk management, responsible AI adoption and integration.

ITIS 5408 [0.5 credit]

Social Analytics

The process, tools and techniques necessary to acquire, clean, and analyze text that has been generated on social platforms. Social network analysis, sentiment analysis, topic extraction, and co-occurrence analysis. Includes: Experiential Learning Activity
Also offered at the undergraduate level, with different requirements, as BUSI 4408, for which additional credit is precluded.

ITIS 5411 [0.25 credit]

IT Service Support

Management of IT processes crucial to business operations. IT service management (ITSM) best practices including service desk management, incident management, problem management, change management, release management, and configuration management.

Prerequisite(s): ITIS 5401.

ITIS 5412 [0.25 credit]

IT Service Delivery

Service level management, services reporting, service continuity and availability management, budgeting and accounting for IT services, capacity management and information security management. Service level agreements (SLAs) and information technology security techniques or subjects.

Prerequisite(s): ITIS 5401.

ITIS 5413 [0.25 credit]

Enterprise Architecture and Governance

Exploration and analysis of enterprise architecture frameworks used to guide organizations in aligning business and IT strategies and goals while enhancing organizational efficiency in the adoption and use of IT. Models of IT Governance.

Prerequisite(s): ITIS 5401.

ITIS 5414 [0.25 credit]

Emerging Information Technologies and Business Innovation

Examines the emerging information technology trends and how new technologies can be incorporated to drive process innovation and improve operational performance. Prerequisite(s): ITIS 5401, or ITIS 5403 for students in the International Development Management Concentration.

ITIS 5421 [0.25 credit]

Strategic Management of Technology Concentration Integration

Components and aspects of technology strategy formulation and its successful implementation in an organization. Technology strategy from a general management perspective, designing and developing technology strategy for sustaining competitiveness. Project-based course.

Includes: Experiential Learning Activity
Prerequisite(s): ITIS 5401, ITIS 5411, ITIS 5412, ITIS 5413.

ITIS 5431 [0.25 credit]**Business Analytics for Managers**

Decision support systems in organizations; moving from business intelligence to business analytics; big data trends in organizations; theories and trends in data analytics.

Includes: Experiential Learning Activity

Prerequisite(s): ITIS 5401 or permission of the School of Business.

ITIS 5432 [0.25 credit]**Business Analytics Methods**

Tools for data analytics; analyzing data beyond statistics; data mining and predictive modeling; time series analysis and forecasting; neural networks algorithms in business analytics.

Includes: Experiential Learning Activity

Precludes additional credit for ITIS 5433.

Prerequisite(s): ITIS 5431 and BUSI 5801 (or equivalent).

ITIS 5433 [0.5 credit]**Business Analytics Methods**

Tools for data analytics; analyzing data beyond statistics; data mining and predictive modeling; decision trees; logistic regression; neural networks; time series analysis and forecasting; algorithms for business analytics.

Includes: Experiential Learning Activity

Precludes additional credit for ITIS 5432.

Prerequisite(s): ITIS 5431 and BUSI 5801 or equivalent.

ITIS 5434 [0.25 credit]**Data Visualization for Business Analytics**

Principles, techniques, technology and applications of data visualization for decision making; cognition and visual perception; types of visual analysis; interactive dashboards; story telling; infographics.

Includes: Experiential Learning Activity

ITIS 5440 [0.5 credit]**Business Analytics Capstone**

The capstone course for the Business Analytics concentration. The objective is to be the concentration's culminating course allowing students to undertake a major business analytics project, while refining their knowledge by examining a set of advanced/specialized topics beyond what has been introduced in the program.

Includes: Experiential Learning Activity

Prerequisite(s): ITIS 5433, ITIS 5434, TOMS 5301.