Management Information Systems

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The nationally ranked Fox BBA Major in Management Information Systems (MIS) produces leaders who initiate, design, and apply technology to transform business functions and produce innovative products and services.


The BBA in MIS prepares students for a digital centric economy in which large and growing IT centric firms provide infrastructure-like services that smaller entrepreneurial firms re-imagine to create innovative and value added services for consumers and business. Fox MIS students will successfully compete in a world in which traditional large corporations continue to streamline their IT operations but grow by adding new technologically enhanced innovative capabilities.

Fox MIS students will learn to:

• Initiate and lead technology enabled change (e.g., act as a change agent in a large firm)
• Analyze and design innovative digital products and services (e.g., create and implement the social media strategy for a new start-up)
• Apply IT to automate and improve business processes (e.g., apply analytics to discover new insights)
• Transform a business function with IT (e.g., use iPhone apps to reach new customers)
• Analyze clients, specify needs, integrate applications, and manage projects (e.g., acquire a customer relationship management system)

Professional Achievement Program

Fox MIS majors benefit from an innovative one-of-a-kind three part professional achievement program (http://community.mis.temple.edu/current-students/professionalachievement):

1. Earn required points for professional development activities and for applying learning to practice (http://community.mis.temple.edu/current-students/professionalachievement/professional-achievement-points) (e.g., internships, student leadership)
3. Showcase your educational and professional achievements at the MIS specific Fox IT Career Fair (http://ibit.temple.edu/careerfair).

Careers and Placement

Fox MIS BBA majors get placed in the top firms in the region and nationally and achieved 100% placement in May 2012 (http://community.mis.temple.edu/blog/2012/11/09/100-placement-congratulations-to-the-class-of-may-2012) and May 2013 (http://community.mis.temple.edu/blog/2013/11/15/100-placement-again-congratulations-to-the-class-of-may-2013). Learn about careers in IS and participate in the Fox IT Career Fair (http://ibit.temple.edu/careerfair) which provides exclusive one-stop placement and internship opportunities for MIS students. The Fox led ISJobIndex.com (http://isjobindex.com) project provides national level data on jobs in the IS field:

• Bachelor MIS students average salary is $57,212 nationally.
• 76% of IS graduates are satisfied with their jobs, and 76% are confident they will perform well in those jobs. 73% found jobs related to their chosen degree.
• Information Technology, Financial Services, and Business Services / Consulting are the top industries for IS jobs.
• The most common job classification is Systems Analyst at 35% for Bachelor students.

The top IS jobs are listed below:
• Business analyst | Systems analyst
• Data analytics | Business Intelligence
• Database administrator / manager
• Information systems / project manager
• Consultant
• Application developer / web designer
• Information architect
• Social media consultant
• Digital entrepreneur and innovator

The Fox MIS Edge
1. What is MIS and why should you consider MIS? (http://community.mis.temple.edu/what-is-mis)
2. What is unique about the Fox MIS program? (http://community.mis.temple.edu/why-fox-mis)
3. Exclusive scholarships (http://ibit.temple.edu/programs/scholarships) and awards (http://community.mis.temple.edu/current-students/annual-mis-awards). BBA in MIS students can access STEM designated scholarships (http://community.mis.temple.edu/stem-scholarships-and-awards).
5. Temple’s Association for Information Systems (http://www.temple-ais.org) (AIS) student organization is the best AIS student chapter (http://community.mis.temple.edu/blog/2014/01/08/temple-ais-wins-2013-student-chapter-of-the-year) and provides professional, social, and community activities.
6. The Fox BBA in MIS is designed in partnership with the Fox IT Industry Advisory Board (http://ibit.temple.edu/programs/fox-it-advisory-board). Members of the board mentor (http://ibit.temple.edu/programs/ibit-mentoring-program) students on projects.
7. Access networking opportunities through Fox’s Institute of Business and Information Technology (http://www.ibit.temple.edu). Learn about innovation and design at the Center for Design+Innovation. (http://design.temple.edu/events/fox-designweek-challenge-2014)
8. Learn the latest technologies (http://community.mis.temple.edu/technology).
9. Fox is one of the largest and most highly-ranked (http://www.fox.temple.edu/cms_about-fox/rankings) business schools.
10. Accelerated 3 Year BBA – Motivated students can finish in 3 years (http://community.mis.temple.edu/files/2013/05/Fox-3-year-BBA-in-MIS.pdf).

Next Steps
1. Take a look at our internationally renowned faculty (http://community.mis.temple.edu/about/faculty)
3. Contact Temple AIS on Facebook (https://www.facebook.com/tuAIS)

If you are a high-performing, motivated student, we want to recruit you. Please contact Joseph Allegra at jallegra@temple.edu.

Accelerated 3 Year BBA
Motivated students can accelerate their BBA program to finish in 3 years. Please see the suggested sequence (http://community.mis.temple.edu/programs/bba-in-mis).

Minors
Management Information Systems Minor
A minor in MIS provides undergraduate students the ability to specify, select, utilize, and apply information technology (IT) to their major field of study. The minor provides the skills and terminology needed to become an expert user of IT in the business world.

Who Should Minor in Management Information Systems?
Business students will benefit from a minor in MIS. The minor in MIS will position you for jobs in business application areas, consulting positions, technical liaisons, and selling and acquisition of business software.

What is in it for me?
• Understand the key information technologies used by organizations.
• Learn how to specify technology solutions and engage with IT professionals.
• Understand the importance of business processes.
• Identify how specific IT solutions are designed and implemented to increase efficiency and effectiveness.
• Apply data analytics to collect, store, analyze, and disseminate organizational information.

Requirements (http://bulletin.temple.edu/archives/2014-2015/undergraduate/fox-business-management/business-minors-certificates/mis-minor) for the minor must be completed prior to graduation. Courses cannot be used to meet minor requirements if already used to meet the requirements for a major or a different minor. For more information or to declare Management Information Systems as your minor, visit: http://community.mis.temple.edu/programs/misminor/

Information Technology Innovation and Entrepreneurship Minor (ITIE)
The Information Technology Innovation and Entrepreneurship (ITIE) minor integrates the enabling role of IT and the drive of entrepreneurial thinking. The minor includes courses in Entrepreneurship, Management Information Systems (MIS), and other related areas.

Who Should Minor in ITIE?
The minor is appropriate for all majors and particularly relevant for students in Marketing, Finance, Human Resources, and Management Information Systems. ITIE minors can drive new IT-enabled innovative projects in existing firms and create technology enabled start-ups.

The minor is a joint venture between the MIS department and the Strategic Management (http://www.sbm.temple.edu/dept/gsm) department.

Requirements (http://bulletin.temple.edu/archives/2014-2015/undergraduate/fox-business-management/business-minors-certificates/information-technology-innovation-entrepreneurship-minor) for the minor must be completed prior to graduation. Courses cannot be used to meet minor requirements if already used to meet the requirements for a major or a different minor. For more information or to declare ITIE as your minor, visit: http://community.mis.temple.edu/programs/minor-in-itie/.

Digital Marketing Minor
The Digital Marketing Minor prepares students for careers related to customer relationship management, social media, information architecture, e-commerce, search engine optimization, e-detailing, site design, Internet research, demographic and sales analytics, blogging, and media design. The Digital Marketing minor is appropriate for all BBA students in the Fox School of Business and is particularly relevant for Marketing, Human Resource Management, Business Management, and Management Information Systems students.

Requirements (http://bulletin.temple.edu/archives/2014-2015/undergraduate/fox-business-management/business-minors-certificates/digital-marketing-minor) for the minor must be completed prior to graduation. Courses cannot be used to meet minor requirements if already used to meet the requirements for a major or a different minor.

For more information about the Digital Marketing minor, visit: http://community.mis.temple.edu/programs/digital-marketing-minor/

Certificate
Students who wish to earn a Certificate in Management Information Systems can do so by completing the required courses. Courses cannot be used to meet certificate requirements if already used to meet the requirements for a major or a different minor or certificate. The certificate does not require the completion of the Business Minor or the Business Studies Minor. Certificates are not listed on the academic transcript.


Summary of Requirements
University Requirements
All new students are required to complete the university's General Education (GenEd (http://bulletin.temple.edu/archives/2014-2015/undergraduate/general-education)) curriculum.

Note that students not continuously enrolled who have not been approved for a Leave of Absence or study elsewhere must follow University requirements current at the time of re-enrollment.

College Requirements
Students must meet College Graduation Requirements (http://bulletin.temple.edu/archives/2014-2015/undergraduate/fox-business-management/#requirementstext), including the requirements of the major listed below. Management Information Systems students must attain a 2.0 GPA in the major, including a minimum grade of C in every course, and a 2.0 cumulative GPA in order to graduate. To calculate the GPA in the major, use the major GPA calculator (http://www.fox.temple.edu/cms_academics/dept/advising/students/gpa-calculator).
Major Requirements

Students must follow the Major Requirements and College Requirements current at the time of declaration. Students not continuously enrolled who have not been approved for a Leave of Absence or study elsewhere must follow University, College, and Major requirements current at the time of re-enrollment.

Requirements of the Management Information Systems Major

Note that minimum grades of C are required in the courses below.

**Semester 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 2501</td>
<td>Enterprise IT Architecture</td>
<td>3</td>
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**Semester 5**

<table>
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<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MIS 2502</td>
<td>Data Analytics</td>
<td>3</td>
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<tr>
<td>MIS 3501</td>
<td>Data-Centric Application Development</td>
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**Semester 6**

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>MIS 3504</td>
<td>Digital Design and Innovation</td>
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</table>

**Semester 7**

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>MIS 3535</td>
<td>Lead Global Digital Projects</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 3503</td>
<td>User Interface Design</td>
<td>3</td>
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<tr>
<td>MIS 3533</td>
<td>Electronic Commerce Site Design</td>
<td></td>
</tr>
<tr>
<td>MIS 3534</td>
<td>Strategic Management of Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>MIS 3536</td>
<td>Information Systems Innovation</td>
<td></td>
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<tr>
<td>MIS 3537</td>
<td>Internet Enabled Supply Chains</td>
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<tr>
<td>MIS 3538</td>
<td>Social Media Innovation</td>
<td></td>
</tr>
<tr>
<td>MIS 3580</td>
<td>Special Topics</td>
<td></td>
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<tr>
<td>MIS 3581</td>
<td>Co-operative Experience in Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MIS 3582</td>
<td>Independent Study</td>
<td></td>
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<tr>
<td>MIS 3682</td>
<td>Independent Study</td>
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**Semester 8**

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<tbody>
<tr>
<td>MIS 4596</td>
<td>Information Systems Integration</td>
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</table>

Total Credit Hours 21

This major capstone is taken in the final semester, and all prerequisites must be met.

Note: All MIS majors are waived from the college requirement of IB 3101 unless a second major or a minor is added. Please see an academic advisor to review this waiver further.

Suggested Academic Plan

Bachelor of Business Administration in Management Information Systems

Requirements for New Students starting in the 2014-2015 Academic Year

Please note that this plan is suggested only, ensuring prerequisites are met.

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>STAT 1001</td>
<td>Quantitative Methods for Business I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1101</td>
<td>Macroeconomic Principles</td>
<td>3</td>
</tr>
<tr>
<td>HRM 1101</td>
<td>Leadership and Organizational Management</td>
<td>3</td>
</tr>
<tr>
<td>ENG 0802, 0812, or 0902</td>
<td>Analytical Reading and Writing [GW]</td>
<td>4</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
<td>3</td>
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</tbody>
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**Spring**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>STAT 1102</td>
<td>Quantitative Methods for Business II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1102</td>
<td>Microeconomic Principles</td>
<td>3</td>
</tr>
<tr>
<td>LGLS 1101</td>
<td>Legal Environment of Business</td>
<td>3</td>
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<tr>
<td>Year 2</td>
<td>Fall</td>
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</tr>
<tr>
<td>IH 0851 or 0951</td>
<td>Mosaic: Humanities Seminar I [GY]</td>
<td>3</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
<tr>
<td>STAT 2103</td>
<td>Statistical Business Analytics (waives GenEd Quantitative Literacy requirement)</td>
<td>4</td>
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<tr>
<td>ACCT 2101</td>
<td>Financial Accounting</td>
<td>3</td>
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<tr>
<td>MIS 2101</td>
<td>Information Systems in Organizations</td>
<td>3</td>
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<tr>
<td>BA 2104</td>
<td>Excel for Business Applications</td>
<td>1</td>
</tr>
<tr>
<td>IH 0852 or 0952</td>
<td>Mosaic: Humanities Seminar II [GZ]</td>
<td>3</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td><strong>17</strong></td>
<td></td>
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<tr>
<td>Spring</td>
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<td></td>
</tr>
<tr>
<td>ACCT 2102</td>
<td>Managerial Accounting</td>
<td>3</td>
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<tr>
<td>MKTG 2101</td>
<td>Marketing Management</td>
<td>3</td>
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<tr>
<td>BA 2101</td>
<td>Professional Development Strategies</td>
<td>1</td>
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<tr>
<td>BA 2196</td>
<td>Business Communications [WI]</td>
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<tr>
<td>RMI 2101</td>
<td>Introduction to Risk Management</td>
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<tr>
<td>MIS 2501</td>
<td>Enterprise IT Architecture</td>
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<tr>
<td><strong>Term Credit Hours</strong></td>
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<tr>
<td>Year 3</td>
<td>Fall</td>
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<tr>
<td>FIN 3101</td>
<td>Financial Management</td>
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<tr>
<td>MSOM 3101</td>
<td>Operations Management</td>
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<tr>
<td>BA 3102</td>
<td>Business Society and Ethics</td>
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<tr>
<td>MIS 2502</td>
<td>Data Analytics</td>
<td>3</td>
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<td>3</td>
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<td></td>
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<tr>
<td>Spring</td>
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<td></td>
</tr>
<tr>
<td>BA 3103</td>
<td>Integrative Business Applications</td>
<td>3</td>
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<tr>
<td>MIS 3504</td>
<td>Digital Design and Innovation</td>
<td>3</td>
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<tr>
<td>GenEd Breadth Course</td>
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<tr>
<td>Year 4</td>
<td>Fall</td>
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<tr>
<td>BA 4101</td>
<td>Global Business Policies</td>
<td>3</td>
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<tr>
<td>MIS 3535</td>
<td>Lead Global Digital Projects</td>
<td>3</td>
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<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
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</table>
Courses

MIS 0855. Data Science. 3 Credit Hours.
We are all drowning in data, and so is your future employer. Data pour in from sources as diverse as social media, customer loyalty programs, weather stations, smartphones, and credit card purchases. How can you make sense of it all? Those that can turn raw data into insight will be tomorrow's decision-makers; those that can solve problems and communicate using data will be tomorrow's leaders. This course will teach you how to harness the power of data by mastering the ways it is stored, organized, and analyzed to enable better decisions. You will get hands-on experience by solving problems using a variety of powerful, computer-based data tools virtually every organization uses. You will also learn to make more impactful and persuasive presentations by learning the key principles of presenting data visually. NOTE: This course fulfills a Science & Technology (GS) requirement for students under GenEd.

Course Attributes: GS

Repeatability: This course may not be repeated for additional credits.

MIS 2101. Information Systems in Organizations. 3 Credit Hours.
Explain the role of information technology as a business enabler and identify and explain management information systems applications including customer relationship management systems, enterprise systems, e-commerce applications, transaction processing systems, business analytics, and emerging technologies. Evaluate the organizational fit and suitability of business applications and interpret the interaction between information technology, customers, processes, data, infrastructure, participants, and environment in an organization. Understand the ethical challenges of information technology and explain the evolving role of management information systems in the organization, and the role and careers of MIS professionals. NOTE: Students pursuing the MIS major or minor need a C grade or better in this class to register for MIS 2501 and 2502. “BCP PASS” is a passing score in the Fox Computer Literacy Test, a prerequisite that needs to be completed prior to registering for MIS 2101. More info: http://sbm.temple.edu/foxclt


Repeatability: This course may not be repeated for additional credits

Pre-requisites:
BCP PASS|May not be taken concurrently
OR CIS 0001 to 4999| Required Courses:1|Minimum Grade of C-|May not be taken concurrently
OR MIS 0001 to 4999| Required Courses:1|Minimum Grade of C-|May not be taken concurrently
OR CIS L000 to L999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently
OR CIS T000 to T999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently
OR CIS U000 to U999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently.

MIS 2501. Enterprise IT Architecture. 3 Credit Hours.
Specify the IT architecture for the enterprise. Explain and assess information technology such as computer hardware, software, systems, and networking. Identify management, usage, security, and consumer issues related to laptops, desktops, operating systems, servers, media, smartphones, gaming, cloud computing, and other new and evolving technologies. Learn about new computing platforms and how they create business value. Explore the technologies and business models of the ecosystems for new digital products and services. A grade of a C or better is required in this course to register for MIS 3501.


Repeatability: This course may not be repeated for additional credits

Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.
MIS 2502. Data Analytics. 3 Credit Hours.
Analyze data and learn how to present insights from business data. Analyze, model, and design database centric solutions for organizations. Create data models and data warehouses based on business rules. Learn how to operate and manage a database system and structured query language (SQL). Source traditional and new data types and apply data mining and visualization to generate business intelligence. A grade of C or better is required in this course to register for MIS 3504.


Repeatability: This course may not be repeated for additional credits

Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.

MIS 2901. Honors: Information Systems in Organizations. 3 Credit Hours.
Explain the role of information technology as a business enabler and identify and explain management information systems applications including customer relationship management systems, enterprise systems, e-commerce applications, transaction processing systems, business analytics, and emerging technologies. Evaluate the organizational fit and suitability of business applications and interpret the interaction between information technology, customers, processes, data, infrastructure, participants, and environment in an organization. Understand the ethical challenges of information technology and explain the evolving role of management information systems in the organization, and the role and careers of MIS professionals. NOTE: Students pursuing the MIS major or minor need a C grade or better in this class to register for MIS 2501 and 2502. "BCP PASS" is a passing score in the Fox Computer Literacy Test, a prerequisite that needs to be completed prior to registering for MIS 2101. More info: http://sbm.temple.edu/foxclt


Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR

Course Attributes: HO

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
BCP PASS|May not be taken concurrently
OR CIS 0001 to 4999| Required Courses:1|Minimum Grade of C-|May not be taken concurrently
OR MIS 0001 to 4999| Required Courses:1|Minimum Grade of C|May not be taken concurrently
OR CIS LO00 to L999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently
OR CIS TO00 to T999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently
OR CIS U000 to U999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently.

MIS 3501. Data-Centric Application Development. 3 Credit Hours.
Develop web-based data-centric applications using high level programming language. Use debugging techniques to identify errors and make improvements. Interpret system requirement specifications and explain technical components including the use of systems development lifecycles in creating software applications. Create simple data driven applications that connect with a database. A grade of C or better is required in this course to register for MIS 4596.

College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
(MIS 2501|Minimum Grade of C|May not be taken concurrently
AND MIS 2502|Minimum Grade of C|May be taken concurrently).

MIS 3503. User Interface Design. 3 Credit Hours.
This course presents basic principles of human-computer interaction and user-centered design as related to interface design for software applications. Topics include managing the design process, usability testing and assessment techniques, and the application of guidelines for window, menu and other dialogue techniques including single user and collaborative applications.

College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
(MIS 3596|Minimum Grade of C|May not be taken concurrently
OR MIS 3504|Minimum Grade of C|May not be taken concurrently)
AND (MIS 2501|Minimum Grade of C|May not be taken concurrently).

MIS 3505. Data Analytics. 3 Credit Hours.
Analyze data and learn how to present insights from business data. Analyze, model, and design database centric solutions for organizations. Create data models and data warehouses based on business rules. Learn how to operate and manage a database system and structured query language (SQL). Source traditional and new data types and apply data mining and visualization to generate business intelligence. A grade of C or better is required in this course to register for MIS 3504.


Repeatability: This course may not be repeated for additional credits

Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.

MIS 2901. Honors: Information Systems in Organizations. 3 Credit Hours.
Explain the role of information technology as a business enabler and identify and explain management information systems applications including customer relationship management systems, enterprise systems, e-commerce applications, transaction processing systems, business analytics, and emerging technologies. Evaluate the organizational fit and suitability of business applications and interpret the interaction between information technology, customers, processes, data, infrastructure, participants, and environment in an organization. Understand the ethical challenges of information technology and explain the evolving role of management information systems in the organization, and the role and careers of MIS professionals. NOTE: Students pursuing the MIS major or minor need a C grade or better in this class to register for MIS 2501 and 2502. "BCP PASS" is a passing score in the Fox Computer Literacy Test, a prerequisite that needs to be completed prior to registering for MIS 2101. More info: http://sbm.temple.edu/foxclt


Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR

Course Attributes: HO

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
BCP PASS|May not be taken concurrently
OR CIS 0001 to 4999| Required Courses:1|Minimum Grade of C-|May not be taken concurrently
OR MIS 0001 to 4999| Required Courses:1|Minimum Grade of C|May not be taken concurrently
OR CIS LO00 to L999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently
OR CIS TO00 to T999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently
OR CIS U000 to U999| Required Courses:1|Minimum Grade of TR|May not be taken concurrently.

MIS 3501. Data-Centric Application Development. 3 Credit Hours.
Develop web-based data-centric applications using high level programming language. Use debugging techniques to identify errors and make improvements. Interpret system requirement specifications and explain technical components including the use of systems development lifecycles in creating software applications. Create simple data driven applications that connect with a database. A grade of C or better is required in this course to register for MIS 4596.

College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
(MIS 2501|Minimum Grade of C|May not be taken concurrently
AND MIS 2502|Minimum Grade of C|May be taken concurrently).

MIS 3503. User Interface Design. 3 Credit Hours.
This course presents basic principles of human-computer interaction and user-centered design as related to interface design for software applications. Topics include managing the design process, usability testing and assessment techniques, and the application of guidelines for window, menu and other dialogue techniques including single user and collaborative applications.

College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
(MIS 3596|Minimum Grade of C|May not be taken concurrently
OR MIS 3504|Minimum Grade of C|May not be taken concurrently)
AND (MIS 2501|Minimum Grade of C|May not be taken concurrently).
MIS 3504. Digital Design and Innovation. 3 Credit Hours.
Learn business process analysis including requirements analysis, feasibility, and data and process modeling. Develop the skills required to create innovative, technology enabled, corporate and consumer products and services. Apply information gathering techniques to elicit requirements. Compose business and technical requirements. Work in teams to design and recommend information systems solutions to improve or transform business processes. Lead the "make vs. buy" decisions. Justify proposed process improvements and proposed information systems solutions. Learn how to implement and negotiate changes to requirements. NOTE: A grade of a C or better is required in this course to register for MIS 3535.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
MIS 2502|Minimum Grade of C|May not be taken concurrently.

MIS 3505. Applied Predictive Analytics. 3 Credit Hours.
This course gives students the applied, hands-on experience necessary to derive patterns and insight from large data sets. Students will learn how to select relevant variables for analysis, apply the appropriate analytic technique, and interpret the practical implications of the results. Topics also include unstructured "big" data, sentiment analysis, and articulating results to a business audience. Students will have hands-on experience with current, cutting-edge tools such as SAS Enterprise Miner.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
MIS 2502|Minimum Grade of C|May not be taken concurrently.

MIS 3533. Electronic Commerce Site Design. 3 Credit Hours.
Learn web application development including requirements analysis, usability evaluation, specification, and implementation. Focus on both traditional transaction based systems and new applications for advertising, ordering, payment, and communication. Learn specific skills and tools for the development and management of electronic commerce initiatives. Understand the distinguishing features of front ends, server side code, and third party systems.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(MIS 3501|Minimum Grade of C|May not be taken concurrently)
AND (MIS 2502|Minimum Grade of C|May not be taken concurrently).

MIS 3534. Strategic Management of Information Technology. 3 Credit Hours.
This course prepares students to be effective exploiters and managers of information technology. The management of information technology is addressed by considering the contemporary issues faced by general managers, e.g., globalization, time compression, and technology integration. Strategic approaches for dealing with these issues are explored. An integrative class project is used to pull together operational concepts from lower level information system and business courses as they apply to the management of information technology.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.

MIS 3535. Lead Global Digital Projects. 3 Credit Hours.
Learn how to lead, plan and manage global technology-enabled, process-centric information systems projects by focusing on initiating, planning, executing, controlling and closing projects in the context of topics such as integration, scope, timing, cost, quality, human resource, technology, communications, and risk and procurement. Explore the impact of the human element as it relates to the success and failure of information systems projects. Learn how to monitor project plans and communicate status reports to clients, and create and respond to request for proposals. A grade of a C or better is required in this course to register for MIS 4596.
College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(MIS 2502|Minimum Grade of C|May not be taken concurrently)
AND (MIS 3504|Minimum Grade of C|May not be taken concurrently
OR MIS 3596|Minimum Grade of C|May not be taken concurrently).
MIS 3536. Information Systems Innovation. 3 Credit Hours.
This course provides the knowledge and skills to leverage emerging and innovative information technology to create business opportunities for both new entrepreneurial ventures and traditional firms. As we move into the digital world, the ways by which companies create value is fundamentally shifting from products to experiences. The rapid convergence to digital technology opens up new opportunities to offer novel products and services that did not exist before. In this course, students will be asked to think how entrepreneurs and companies produce radically new products and services in the increasingly digital world. The course focuses on how organizations can design novel and desirable products and services. Through applied projects, student teams will learn how to evaluate and apply new innovative technologies to create new digital experiences, products, and services.


Repeatability: This course may not be repeated for additional credits

Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.

MIS 3537. Internet Enabled Supply Chains. 3 Credit Hours.
This course provides an understanding of how smart companies are revolutionizing their supply chains through the use of the Internet. Topics include e-business models, network-ready businesses, information hubs, collaboration in supply chains, eMarketplaces and eAuctions, supply chain visibility and security. The course draws from a host of real-world case studies and computer simulations to reinforce learning and understanding of Internet-enabled supply chains.


Repeatability: This course may not be repeated for additional credits

Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.

MIS 3538. Social Media Innovation. 3 Credit Hours.
In this course we review concepts and principles related to new business models supported by innovative use of Web 2.0 and social media. Through a combination of readings, discussion, presentations, and hands-on projects we examine (i) the organizational use of key media technologies such as web sites, blogs, web analytics, and search engine optimization, (ii) the business models underlying successful innovative new media organizations including Wikipedia, Craigslist, YouTube, and Facebook, and (iii) the role of centralized, decentralized, and crowd-sourced information resources in online media innovation.


Repeatability: This course may not be repeated for additional credits

Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.

MIS 3580. Special Topics. 3 Credit Hours.
Special topics in current developments in the field of information systems.


Repeatability: This course may be repeated for additional credit.

Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.
MIS 3581. Co-operative Experience in Management Information Systems. 3 Credit Hours.
Students undertake a research project that integrates their current work experience with their classroom experience at Temple University. The results are reported in a series of status reports, blogs and a PowerPoint presentation prepared under the supervision of a faculty member. NOTE: Arrangements are made through the Management Information Systems Department and this course is open to ALL Fox business students. A 2.7 cumulative GPA or higher is recommended. http://ibit.temple.edu/industryexperience/
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
MIS 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently.

MIS 3582. Independent Study. 1 to 6 Credit Hour.
Students will prepare research papers under supervision of a faculty member. NOTE: None of the required MIS courses can be taken as an independent study.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Management Information Systems
College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School
Repeatability: This course may be repeated for additional credit.

MIS 3682. Independent Study. 1 to 6 Credit Hour.
Students will prepare research papers under supervision of a faculty member. NOTE: None of the required MIS courses can be taken as an independent study.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Management Information Systems
Repeatability: This course may be repeated for additional credit.

MIS 3999. Honors Thesis I. 1 to 3 Credit Hour.
The first of a two-part sequence of courses in which independent research is conducted under the supervision of a thesis advisor from the MIS department resulting in a substantial piece of original research, roughly 30 to 50 pages in length upon completion of MIS 4999. The student must publicly present his/her findings at a Temple University Research Forum session or the equivalent during one of the two semesters during which these courses are undertaken.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Management Information Systems
College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School
Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR
Course Attributes: HO
Repeatability: This course may be repeated for additional credit.

MIS 4596. Information Systems Integration. 3 Credit Hours.
This is a capstone course that will apply previous course material to a comprehensive project. Learn how to leverage enterprise information technology assets and capabilities. Justify and prioritize project portfolios within a department and across the enterprise. Evaluate and compare proposed projects based on requirements, vendors, technology, and architectural fit with the organization. Work in teams to participate in a real-world project. Learn how IT organizations are structured and the role of the MIS professional and prepare to enter job marketplace. Students must earn a grade of C in this course if they are using it to fill the writing intensive course requirement for their degree.
College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School
Course Attributes: WI
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(MIS 3535|Minimum Grade of C|May not be taken concurrently)
AND (MIS 3501|Minimum Grade of C|May not be taken concurrently).

MIS 4999. Honors Senior Thesis II. 1 to 3 Credit Hour.
Independent research conducted under the supervision of a thesis advisor from the MIS Department resulting in a substantial piece of original research, roughly 30 to 50 pages in length. Student must publicly present his/her findings at a Temple University Research Forum session or the equivalent if this was not done in MIS 3999.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Management Information Systems
College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School
Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR
Course Attributes: HO
Repeatability: This course may be repeated for additional credit.