Management Information Systems

Learn more about the Bachelor of Business Administration in Management Information Systems.

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The Bachelor of Business Administration in Management Information Systems (MIS) produces digital leaders who design, architect, and manage API-driven products. These products apply APIs, cloud, cyber-security, agile, user experience, and analytics to achieve business outcomes.

The BBA in MIS is a STEM program that provides access to STEM scholarships, as well as MIS department scholarships.

MIS students learn to design, build, deploy, secure, and evaluate API-driven, cloud-based software applications that achieve business goals, meet requirements, deliver a positive user experience, and execute reliably at scale.

MIS will prepare you to:

• Design software applications that meet requirements and are enjoyable to use employing state-of-the-art UX techniques
• Build web-based, API-driven business applications using HTML, CSS, JavaScript, and Node.js as well as frameworks such as Express
• Deploy APIs on a robust cloud infrastructure using Amazon Web Services
• Secure applications and businesses against cyber-threats applying cryptography and vulnerability discovery techniques
• Analyze critical business data using data mining techniques and navigate relational and NoSQL data stores using MySQL and MongoDB

Professional Achievement Program

MIS majors benefit from an innovative patent pending PRO - professional achievement program:

1. Earn required points for professional development activities and for applying learning to practice (e.g., internships, student leadership)
2. Receive recognition for professional achievement on leaderboards, badges, professional achievement wire, and e-portfolios. 'Cash-in' points at the MIS Points Store.
3. Showcase your educational and professional achievements at the IT Career Fair.

Careers and Placement

MIS BBA majors get placed in the top firms in the region and nationally. Learn about careers in IS and participate in the IT Career Fair which provides exclusive one-stop placement and internship opportunities for MIS students. The Temple University led ISJobIndex.com project provides national level data on jobs in the IS field:

• Bachelor MIS students’ average salary is $65,314 nationally. Salaries for IS graduates are about 25% higher than typical business majors.
• 83% of IS graduates are satisfied with their job offer.
• The highest paying jobs are consulting, project management, and systems analyst.

The top IS jobs are:

• Application Developer - $72,833
• Information Security - $69,553
• IT Consultant - $69,464
• Project Manager - $66,500
• Systems Analyst - $63,643
The MIS Edge

1. What is MIS and why should you consider MIS?
2. What is unique about the MIS program?
3. Exclusive scholarships and awards. BBA in MIS students can access STEM-designated scholarships.
4. Win prizes and gain recognition in national, and local analytics, design, and entrepreneurial competitions.
5. Temple’s Association for Information Systems (AIS) student organization provides extensive professional, social, and community activities.
6. The BBA in MIS is designed in partnership with the Fox IT Industry Advisory Board. Members of the board mentor students on projects.
7. Access top firms through the affiliated Institute of Business and Information Technology which each year hosts the acclaimed IT Awards.
8. Fox is one of the largest business schools in the world with a vast array of programs, research centers, and superb resources.
9. Learn the latest technologies.

Next Steps

1. Take a look at our internationally renowned faculty
2. Read Why Temple MIS?
3. Contact Temple Fox MIS on Facebook

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

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 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: https://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 department.
Requirements 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: https://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 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: https://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.

Requirements for the certificate must be completed prior to graduation. Contact the Management Information Systems department to declare the Management Information Systems certificate.

**Summary of Requirements**

**University Requirements**

All new students are required to complete the university's General Education (GenEd) 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 for the Bachelor of Business Administration, 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.

**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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 2402</td>
<td>Web Application Development</td>
<td>3</td>
</tr>
<tr>
<td>MIS 2502</td>
<td>Data and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MIS 3406</td>
<td>Cloud Architecture</td>
<td>3</td>
</tr>
<tr>
<td>MIS 3506</td>
<td>User Experience Design</td>
<td>3</td>
</tr>
<tr>
<td>MIS 3502</td>
<td>Web Service Programming</td>
<td>3</td>
</tr>
<tr>
<td>MIS 3535</td>
<td>Lead Global Digital Projects</td>
<td>3</td>
</tr>
<tr>
<td>MIS 4596</td>
<td>Managing Enterprise Cybersecurity 1, 2</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 21

1. This major capstone is taken in the final semester, and all prerequisites must be met.
2. Each MIS major student is required to achieve a minimum of 1,000 professional achievement points in order to graduate.

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 2020-2021 Academic Year

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

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>STAT 1001</td>
<td>Quantitative Methods for Business I</td>
</tr>
<tr>
<td>ECON 1101</td>
<td>Macroeconomic Principles</td>
</tr>
<tr>
<td>HRM 1101</td>
<td>Leadership and Organizational Management</td>
</tr>
<tr>
<td>ENG 0802, 0812, or 0902</td>
<td>Analytical Reading and Writing [GW]</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>STAT 1102</td>
<td>Quantitative Methods for Business II</td>
</tr>
<tr>
<td>ECON 1102</td>
<td>Microeconomic Principles</td>
</tr>
<tr>
<td>LGLS 1101</td>
<td>Legal Environment of Business</td>
</tr>
<tr>
<td>MIS 2101</td>
<td>Digital Systems</td>
</tr>
<tr>
<td>IH 0851 or 0951</td>
<td>Intellectual Heritage I: The Good Life [GY]</td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>STAT 2103</td>
<td>Statistical Business Analytics (waives GenEd Quantitative Literacy requirement)</td>
</tr>
<tr>
<td>ACCT 2101</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>MIS 2502</td>
<td>Data and Analytics</td>
</tr>
<tr>
<td>MIS 2402</td>
<td>Web Application Development</td>
</tr>
<tr>
<td>IH 0852 or 0952</td>
<td>Intellectual Heritage II: The Common Good [GZ]</td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ACCT 2102</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>MKTG 2101</td>
<td>Marketing Management</td>
</tr>
<tr>
<td>BA 2101</td>
<td>Professional Development Strategies</td>
</tr>
<tr>
<td>BA 2196</td>
<td>Business Communications [WI]</td>
</tr>
<tr>
<td>MIS 3406</td>
<td>Cloud Architecture</td>
</tr>
<tr>
<td>MIS 3506</td>
<td>User Experience Design</td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>RMI 2101</td>
<td>Introduction to Risk Management</td>
</tr>
<tr>
<td>FIN 3101</td>
<td>Financial Management</td>
</tr>
<tr>
<td>MSOM 3101</td>
<td>Operations Management</td>
</tr>
<tr>
<td>BA 3102</td>
<td>Business Society and Ethics</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>BA 3103</td>
<td>Integrative Business Applications</td>
</tr>
<tr>
<td>MIS 3502</td>
<td>Web Service Programming</td>
</tr>
<tr>
<td>MIS 3535</td>
<td>Lead Global Digital Projects</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td></td>
</tr>
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</table>
### Year 4

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BA 4101</td>
<td>Global Business Policies</td>
<td>3</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Free Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

#### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 4596</td>
<td>Managing Enterprise Cybersecurity [WI]</td>
<td>3</td>
</tr>
<tr>
<td>Free Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Free Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Free Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Credit Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Total Credit Hours:** 124

### 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 0955. Honors 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.

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

**Course Attributes:** GS, HO

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

**MIS 2101. Digital Systems. 3 Credit Hours.**

Learn the role of information systems and digital platforms in business and how digital products are conceived, designed, secured and deployed. Understand component-based software architectures and APIs. Build simple software applications.


**Repeatability:** This course may not be repeated for additional credits.
MIS 2402. Web Application Development. 3 Credit Hours.
Create web-based applications that carry out a business process and integrate web-based services. Learn loops, arrays, conditional statements, data validation, responsive web design, and making API calls.

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 2101|Minimum Grade of C|May not be taken concurrently
OR MIS 2901|Minimum Grade of C|May not be taken concurrently
OR CRM01 Y|May not be taken concurrently
OR CRM04 Y|May not be taken concurrently)
AND (MIS 2502|Minimum Grade of C|May be taken concurrently
OR CRM03 Y|May not be taken concurrently)

MIS 2502. Data and Analytics. 3 Credit Hours.
Navigate and query relational and NoSQL databases to support applications. Combine multiple sources of data using extract, transform, load for data cleansing. Discover insights from data using analytics software.


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
OR CRM01 Y|May not be taken concurrently
OR CRM04 Y|May not be taken concurrently.

MIS 2901. Honors Digital Systems. 3 Credit Hours.
Learn the role of information systems and digital platforms in business and how digital products are conceived, designed, secured and deployed. Understand component-based software architectures and APIs. Build simple software applications.


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.

MIS 3406. Cloud Architecture. 3 Credit Hours.
Learn to design and build cloud-based network infrastructures for deploying applications securely at scale. Create and deploy a simple RESTful API for consumption with fault-tolerance.

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

Pre-requisites:
(MIS 2402|Minimum Grade of C|May not be taken concurrently
OR CRM02 Y|May not be taken concurrently)
AND (MIS 2502|Minimum Grade of C|May not be taken concurrently
OR CRM03 Y|May not be taken concurrently)
MIS 3502. Web Service Programming. 3 Credit Hours.
Create and deploy a complete, end-to-end web-based application. Design and build complex RESTful APIs. Create single-page applications that consume and integrate multiple APIs to create a seamless user experience.

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

**Pre-requisites:**
(MIS 3406) [Minimum Grade of C] (May not be taken concurrently)
OR CRM06 Y (May not be taken concurrently)
AND (MIS 3506) [Minimum Grade of C] (May not be taken concurrently)
OR CRM07 Y (May not 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)
OR CRM06 Y (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.

**Field of Study Restrictions:** May not be enrolled in one of the following Majors: Management Information Systems.

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

**Pre-requisites:**
MIS 2502 [Minimum Grade of C] (May not be taken concurrently)
OR CRM03 Y (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)
OR CRM03 Y (May not be taken concurrently).

MIS 3506. User Experience Design. 3 Credit Hours.
Describe, scope, and build a complete user experience. Understand the role of usability and design principles. Build innovative and pleasurable user interfaces that achieve human, social, organizational, and business model goals.

**Field of Study Restrictions:** Must be enrolled in one of the following Majors: Management Information Systems.

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

**Pre-requisites:**
MIS 2402 [Minimum Grade of C] (May not be taken concurrently)
OR CRM02 Y (May not be taken concurrently).
MIS 3507. Defending Against Cyber Crime. 3 Credit Hours.
In this course you will learn the importance of Information Security through modern case studies and pragmatic approach to evaluating security as an executive.

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
OR CRM01 Y|May not be taken concurrently
OR CRM04 Y|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
OR CRM03 Y|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
OR CRM01 Y|May not be taken concurrently
OR CRM04 Y|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.

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 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
OR CRM01 Y|May not be taken concurrently
OR CRM04 Y|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
OR CRMI01 Y|May not be taken concurrently
OR CRMI04 Y|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
OR CRMI01 Y|May not be taken concurrently
OR CRMI04 Y|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
OR CRMI01 Y|May not be taken concurrently
OR CRMI04 Y|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
OR CRMI01 Y|May not be taken concurrently
OR CRMI04 Y|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
OR CRMI01 Y|May not be taken concurrently
OR CRMI04 Y|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 3862. 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. Managing Enterprise Cybersecurity. 3 Credit Hours.
Learn how to secure systems and the enterprise using cryptography, authentication, and ethical hacking. In this writing-intensive course for MIS, you will also identify and communicate cybersecurity risks facing businesses through risk assessment reports that support management decisions.

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.

Course Attributes: WI

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

Pre-requisites:
(MIS 3406|Minimum Grade of C|May not be taken concurrently
OR CRMI05 Y|May not be taken concurrently)
AND (BA 2196|Minimum Grade of C-|May not be taken concurrently
OR BA 2996|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.