Department of Business and Information Technology
101 Fulton Hall, 301 West 14th Street
Rolla, MO 65409
573-341-7216 (phone)  573-341-4812 (fax)
email:  bit@mst.edu
http://bit.mst.edu

Graduate Degrees:
Masters in Business Administration (M.B.A.)
M.S. in Information Science & Technology
grad facts.

$77,214
Average M.S. IST Starting Salary

$61,167
Ave MBA Starting Salary

national recognition.

AACBS Accredited- by The Association to Advance Collegiate Schools of Business. Only 5% of business schools in the world are AACSB Accredited

No. 5 Online MBA Programs with the most International Students
(US News Short List, 2015)

No. 18 Top 25 MBA Programs in the Midwest - 2014 (OnlineMBAReport.com)

No. 26 “Best Online Graduate Computer Information Technology Programs”
(U.S. News & World Report, 2015)

No. 28 “Best Online Graduate Business Programs” (US News & World Report, 2015)

No. 49 The Best Online Programs for 2015-2016 (affordablecollegesonline.org, 2015)

No. 55 “Best Online Graduate MBA Programs” (US News & World Report, 2015)

Capitalizing on the strong technological emphasis of Missouri University of Science and Technology (S&T), the Department of Business and Information Technology prepares professionals for careers in modern business organizations. The Department emphasizes management through technology with particular focus on information systems and their application in a fast changing, global and competitive environment.
by the numbers.

**Enrollment by Degree**
- Business: 113
- IST: 106
- MBA: 55
- MS IST: 83

**Faculty**
- Full-Time Professors: 17
- Part-Time Professors: 5

**Student Demographics**
- Male: 236
- Female: 121

**Student -to-faculty ratio:**
- 16:1
- 66.1% Male
- 33.8% Female

small department. big impact.

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**Admissions**
futurestudents.mst.edu
admissions@mst.edu
106 Parker Hall
300 W. 13th Street
Rolla, MO 65409
573-341-4165
800-522-0938

**Financial Assistance**
sfa.mst.edu
sfa@mst.edu
G-1 Parker Hall
300 W. 13th Street
Rolla, MO 65409
573-341-4282
800-522-0938

**Cashier (Tuition & Fees)**
cashier.mst.edu
cashier@mst.edu
G-4 Parker Hall
300 W. 13th Street
Rolla, MO 65409
573-341-4195

**Registrar**
registrar.mst.edu
registrar@mst.edu
103 Parker Hall
300 W. 13th Street
Rolla, MO 65409
573-341-4181

**New Student Programs**
pro.mst.edu
pro@mst.edu
106 Centennial Hall
300 W. 12th Street
Rolla, MO 65409
573-341-4025

**Campus Housing/Dining**
reslife.mst.edu
reslife@mst.edu
205 West 12th Street
Rolla, MO 65409
573-341-4218

**International Affairs**
international.mst.edu
ia@mst.edu
103 Norwood Hall
320 W. 12th Street
Rolla, MO 65409
573-341-4208

**Distance & Continuing Education**
dce.mst.edu
dce@mst.edu
216 Centennial Hall
300 W. 12th Street
Rolla, MO 65409
573-341-4025

**Career Opportunities & Employer Relations**
career.mst.edu
career@mst.edu
3rd Floor Norwood Hall
320 W. 12th Street
Rolla, MO 65409
573-341-4343

**Student Life**
studentlife.mst.edu
stulife@mst.edu
1346 N. Bishop
Rolla, MO 65409
573-341-6771

**Information Technology**
it.mst.edu
107 IDE Building
1215 N. Pine Street
Rolla, MO 65409
573-341-4357

**Athletics**
sports.mst.edu
705 West 10th Street
Rolla, MO 65409
573-341-4175
our faculty.

Keng Siau, Ph.D.
Department Chair
Professor

Yu-Hsien Chiu, M.S.
Assistant Chair
Associate Teaching Professor

Craig Claybaugh Ph.D.
Assistant Professor

Cassie Elrod, Ph.D.
Associate Professor

Carla Bates, M.S.
Assistant Teaching Professor

LiLi Eng, Ph.D.
Associate Professor

Barry Flachsbart, Ph.D.
Professor

Nobuyuki Fukawa, Ph.D.
Assistant Professor

Richard Hall, Ph.D.
Professor

Ralph Hanke, Ph.D.
Assistant Professor

Michael Hilgers, Ph.D.
Professor

Bih-Ru Lea, Ph.D.
Associate Professor

Fiona Nah, Ph.D.
Professor

Sarah Stanley, Ph.D.
Assistant Professor

Nathan Twyman, Ph.D.
Assistant Professor

Vincent (Wen-Bin) Yu, Ph.D.
Associate Professor

Hongxian Zhang, Ph.D.
Assistant Professor
Graduate

Master of Business Administration (MBA)
M.S. Information Science & Technology

Graduate Certificates

Business Analytics & Data Science
Business Intelligence
Digital Media
Digital Supply Chain Management
Electronic and Social Commerce

Enterprise Resource Planning
Entrepreneurship and Technological Innovation
Human-Computer Interaction
Management & Leadership
Mobile Business Technology
Project Management

ONE YEAR Graduate Program

We are offering graduate degrees customized for our undergraduate students. This program allows a Senior to complete some graduate coursework as an undergraduate student with dual enrollment status! (Available for one or two semesters depending on GPA)

The program allows two advantages:
1. complete some graduate coursework at undergraduate tuition rates
2. complete your MBA in ONE YEAR after your undergraduate degree!
The Information Age

Business professionals face the daunting task of sifting through the staggering reams of data produced every moment. They must evaluate and analyze it. They must be able to manage, store, and retrieve it as business needs demand. This requires complex information management systems.

Holistic Approach

BIT views information technology and business as inseparable, each deeply integrated into the other. Education must not draw lines between subjects but rather approach business and information systems in a unified fashion seeking to bring out the benefits of both.

Flexibility

On Campus

You may elect to take your graduate courses directly on campus, whether a full time or part-time student.

Distance- Online

Nationally Ranked by US News & World Report in 2014

Our on-line graduate programs are nationally ranked, and are among the top in the United States!

Graduate Course Requirements

**MBA (36 Credit Hours)**
- Teambuilding & Leadership
- International Marketing
- Corporate Information Systems Mgmt
- Managerial Accounting & Control
- Supply Chain and Project Management
- Integration of Business Areas
- Managerial Finance
- Plus- 15 Credit Hours in Electives

**M.S. IST (30 Credit Hours)**
- Foundations of Internet Computing
- Human-Computer Interaction
- Adv. Information Systems Project Mgmt
- Tech. Innovation Mgmt & Leadership
- Plus- 18 Credit Hours in Electives

Personalize your Degree

Graduate Certificates

(12 Credit Hours of degree electives)

Business Analytics & Data Science
Business Intelligence
Digital Media
Digital Supply Chain Management
Electronic & Social Commerce
Enterprise Resource Planning

Entrepreneurship & Technological Innovation
Human-Computer Interaction
Management & Leadership
Mobile Business & Technology
Project Management

flexibility. technology.
We are offering graduate degrees customized for our S&T undergraduate students. This program allows a Senior to complete some graduate coursework as an undergraduate student with dual enrollment status! (Available for one or two semesters depending on GPA)

The program allows two advantages:
1. complete some graduate coursework at undergraduate tuition rates
2. complete your MBA or M.S. IST in **ONE YEAR** after your undergraduate degree!

Do I Qualify?

Senior at Missouri S&T with GPA 3.0 or greater
Available credit hours outside your undergraduate program

How to apply:
- Apply at the admissions office requesting dual enrollment
- Submit Three letters of reference with a resume
- Submit GMAT test results (a GPA 3.2 or above from S&T can waive this requirement)

**Suggested Course Schedule**

(MBA)

**SPRING** (dually enrolled)
- BUS 6723 Corporate Information Systems Mgmt
- BUS 6224 Managerial Accounting & Control
- BUS 6425 Operations and Project Management

**SUMMER** (graduate status)
- Elective #1

**FALL**
- BUS 6121 Teambuilding & Leadership
- BUS 6622 International Marketing
- BUS 6426 Integration of Business Areas
- BUS 6827 Managerial Finance

**SPRING**
- Elective #2
- Elective #3
- Elective #4
- Elective #5

(M.S. IST)

**SPRING** (dually enrolled)
- IST 5251 Tech. Innovation Mgmt & Leadership
- IST 6336 Foundations of Internet Computing

**SUMMER** (graduate status)
- Elective #1

**FALL**
- IST 5885 Human-Computer Interaction
- Elective #2
- Elective #3
- Elective #4

**SPRING**
- IST 6261 Advanced Info. Systems Project Mgmt
- Elective #5
- Elective #6
Master of Business Administration

An AACSB accredited degree that combines core business knowledge with information technology. This 36-credit hour program from a top-tier university in the U.S. is designed to challenge you, enlighten you, educate you, and transform you. You will learn the latest management best practices, develop business and leadership skills to succeed in the global market, discuss current international business issues with faculty members who are experts in their fields, and work with fellow students who are business leaders and management executives from different nations and cultures.

The MBA requires a total of 36 credit hours and is offered in two (2) parts:
- Core (21 credit hours)
- Focused Area or Broad Spectrum Electives (15 credit hours)

Full-time students may complete the program in 18-24 months depending on course availability and prerequisites required.

Part-time/distance students may complete the program in 24-36 months depending on course availability, prerequisites required, and the student’s scheduling and program plan preferences.

MBA INTEGRATED CORE CLASSES
The MBA Core classes totals 21 credit hours and cover Team-building, Leadership, Marketing, Data Analysis, Accounting, Finance, Operations, Project Management, and Management Information Systems. The program is designed so full-time students may complete all Core 21 credit hours in two semesters; part-time students may take one to two classes per semester; they may also take advantage of the distance option.

Instructors collaborate to provide multidisciplinary coverage of course materials. Students work in teams on a comprehensive business cases, live simulations and real company-assigned projects. The MBA student teams compete for the best solutions on all projects assigned.

**MBA Core Classes**
- BUS 6121 Team-building and Leadership 3 credit hours
- BUS 6622 International Marketing 3 credit hours
- BUS 6723 Corporate Information Systems Management 3 credit hours
- BUS 6224 Managerial Accounting & Control 3 credit hours
- BUS 6425 Supply Chain and Project Management 3 credit hours
- BUS 6426 Integration of Business Areas 3 credit hours
- BUS 6827 Managerial Finance 3 credit hours

**Focus Area with Graduate Certificates**
Students wishing to pursue a broad spectrum may select the 15 credit hours of electives in appropriate business and technology related areas to suit their personal focus. Students may also choose to earn a graduate certificate which is comprised of 12 hours of electives to focus their area of expertise. Graduate certificates are offered in:

- Business Analytics & Data Science
- Business Intelligence
- Digital Media
- Digital Supply Chain Management
- Electronic & Social Commerce
- Enterprise Resource Planning
- Entrepreneurship & Technological Innovation
- Human-Computer Interaction
- Management & Leadership
- Mobile Business & Technology
- Project Management

Each Graduate Certificate requires the completion of four courses. A course may not be used to satisfy the requirements for more than one certificate, but Graduate Certificate courses are often used to create a specialization area beyond the required courses of the MBA.
Course Availability:

<table>
<thead>
<tr>
<th>Fall Semesters</th>
<th>Spring Semesters</th>
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<tbody>
<tr>
<td>Core Core Courses (Required):</td>
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</tr>
<tr>
<td>BUS 6121 Teambuilding &amp; Leadership</td>
<td>BUS 6723 Corporate Information Systems Management</td>
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Application and Admission Process

Apply
On campus students may apply at any time by completing the Graduate Application for Admission form found on-line at apply.mst.edu. For distance students, apply on-line at apply.mst.edu. The application, along with three letters of reference, a statement of purpose, and a current resume may be sent to the BIT Admissions Specialist or the Admissions office to start the application process.

GMAT
All MBA program applicants are required to take the Graduate Management Admission Test (GMAT) that is administered by the Educational Testing Service, Princeton, U.S.A. The test must have been taken within five years of the term for which the student is applying. [http://www.gmac.com](http://www.gmac.com) The GMAT results must be sent officially from ETS.

Official Transcripts
MBA applicants are not required to hold a bachelor’s degree in business – many fields are welcome. International applicants must have a degree comparable to an approved U.S. bachelor’s degree from a university accredited by the appropriate governmental agency. Applicants must have attained a GPA of at least 3.00/4.00 in their last two years of coursework.

TOEFL/IELTS
All applicants must also demonstrate proficiency in English. Applicants whose first language is not English will be required to submit the score obtained in the Test of English as a Foreign Language (TOEFL) or the International English Language Testing Systems (IELTS) test. Students who have earned a bachelor’s or master’s degree from a U.S. university will not be required to take the TOEFL or IELTS. The minimum TOEFL score required for admission consideration is 577 (paper based) or 90 (internet based) and the minimum IELTS score required for admission consideration is 6.5.
Information technology continues to transform every aspect of our economy and society. Rapid spread of the technology has generated the need for highly trained professionals to implement and maintain information systems to support business success. The AACSB Accredited M.S. in Information Science and Technology is designed to educate students in the design, development, and successful application of information systems in organizations. Additional information can be found on the web at http://bit.mst.edu.

The MS IST degree requires a total of 30 credit hours and is offered in several parts:

- Core Coursework (12 credit hours)
- Focused Area or Broad Spectrum Electives (12 Credit Hours with a Thesis, or 18 Credit Hours- Non-Thesis)
- Optional Thesis (6 Credit Hours)

Full-time students may complete the program in 12-18 months depending on course availability and prerequisites required.

Part-time/distance students may complete the program in 24-36 months depending on course availability, prerequisites required, and the student’s scheduling and program plan preferences.

**MS IST CORE Classes** All M.S. candidates in IST are required to take the following courses. These courses are designed to ensure that all IST graduate students are exposed to the Web Technology, Human Context, Application Implementation, and Organizational Systems perspectives of information systems.

- IST 5251 Technological Innovation Management & Leadership
- IST 5885 Human-Computer Interaction
- IST 6336 Foundations of Internet Computing (this covers Computer Networks, Web Design & E-Commerce)
- IST 6261 Advanced Information Systems Project Management

**Focus Area with Graduate Certificates**

The program is designed to be very flexible in order to allow students to pursue interests in many areas beyond the four required core courses. Students wishing to pursue a broad spectrum may select their credit hours of electives in appropriate business and technology related areas to suit their personal focus. Students may also choose to earn a graduate certificate which is comprised of 12 hours of electives to focus their area of expertise. Graduate certificates are offered in:

- Business Analytics & Data Science
- Business Intelligence
- Digital Media
- Digital Supply Chain Management
- Electronic & Social Commerce
- Enterprise Resource Planning
- Entrepreneurship & Technological Innovation
- Human-Computer Interaction
- Management & Leadership
- Mobile Business & Technology
- Project Management

Each Graduate Certificate requires the completion of four courses. A course may not be used to satisfy the requirements for more than one certificate, but Graduate Certificate courses are often used to create a specialization area beyond the required courses of the M.S.
M.S. Entrance Requirements

Applicants are expected to have the following qualifications for admission:

- Complete the general portion of the Graduate Record Examination with a minimum Verbal Score of 370, Quantitative Score of 600, and Analytical Score of 3.5
  - OR –
  Complete the Graduate Management Admissions Test with a minimum Quantitative score of 35, Verbal score of 21, and Analytical Writing score of 3.5.

- A minimum TOEFL score of 230 (Computer-based), 570 (Paper-based), or 88 (Internet-based) for those students not speaking English as their native language. An IELTS score of 6.5 may be substituted.

- An undergraduate GPA of 3.0/4.0 or better over the last two years, or successful completion of 12 graduate hours in IST as a “Conditional” graduate student at S&T with at least a 3.0 GPA.

- Knowledge of the content of the following courses:
  - Algorithms & Programming (IST 1551 or CSc 53)
  - Information Systems (IST 1750)
  - Database Management Systems (IST 3423)
  - Calculus
  - Data Structures (IST 1552 or CSc 153)
  - Computer Components & Operation (IST 3131)
  - Statistics

Degree Requirements (continued)

To complete the program, six additional elective courses (18 hours) are required for the non-thesis option; three of the elective courses (9 hours) must be at the 400 level. The M.S. degree with thesis requires four additional elective courses (12 hours) and 6 hours of research (IST 5099); two of the elective courses (6 hours) must be at the 6000 level. Beyond available Information Science and Technology (IST) courses, the elective courses may be chosen from available graduate-level Business Administration (BUS), Computer Engineering (ECE), Computer Science (CSC), Economics & Finance (ECON), Engineering Management (EMGT), Psychology (PSYCH), or other graduate-level courses, subject to approval by a student’s Advisor.
Graduate Certificates Offered

Business Analytics & Data Science

Big Data is an emerging phenomenon. Computing systems today are generating 15 petabytes of new information every day—eight more times than the combined information in all the libraries in the U.S.; about 80% of the data generated every day is textual and unstructured data.

Data analytics facilitates realization of objectives by identifying trends, creating predictive models for forecasting, and optimizing business processes for enhanced performance.

Required Core Courses:
- IST 5420: Introduction to Big Data Analytics
- IST 6450: Information Visualization

Choose one of the following as an elective course:
- ERP 5410: Use of Business Intelligence
- CSc 6304: Cloud Computing and Big Data Management
- CSc 5420: Data Mining and Machine Learning
- CpE 6330: Clustering Algorithms
- Stat 5814: Applied Time Series Analysis

Choose one of the following as elective courses:
- ERP 5410: Use of Business Intelligence
- ERP 6444: Essentials of Data Warehouses

Business Intelligence

Interest in business intelligence has been a strong theme among employers. Medium and large-sized businesses are especially interested. In order to make appropriate decisions, upper-level administration of an organization needs to draw data together from different systems in order to get a unified picture of the status and performance of an organization and present it in helpful ways. Examples include the development of organizational scorecards, dashboards and other tools that provide a picture of how an organization is performing. People capable of creating and maintaining such information are needed, but the in-depth education necessary for these people is available in only a few places.

Required Core Course:
- IST 6654: Advanced Web and Digital Media Development

Choose two to complete the core:
- IST 5885: Human-Computer Interaction
- IST 6680: Advanced Web and New Media Studies
- MKT 5310: Digital Marketing and Promotions

Choose one of the following as an elective course:
- IST 5652: Advanced Web Development
- IST 5886: Human-Computer Interaction Prototyping

Digital Media

Students will learn creation, design and analysis skills and knowledge, as it applies to digital media. The focus will be on the media, the social/digital network that connects these media, the interfaces that connect these media with users, and the application of these skills in business and other creative contexts. Thus this certificate program will address the pressing demand and opportunities for graduates with advanced knowledge and skills in areas such as networked communication and marketing, web-based media creation and design, and methods for designing and building effective human-media interfaces.

Required Core Course:
- IST 6654: Advanced Web and Digital Media Development

Choose two to complete the core:
- IST 5885: Human-Computer Interaction
- IST 6680: Advanced Web and New Media Studies
- MKT 5310: Digital Marketing and Promotions

Choose one of the following as an elective course:
- IST 5652: Advanced Web Development
- IST 5886: Human-Computer Interaction Prototyping
Digital Supply Chain Management
Success in today’s marketplace requires that organizations deliver products and services that provide easily identified value for their customers. This Certificate draws on strengths within two departments to integrate source (strategic procurement and supply management), production (manufacturing and service operations), and delivery processes (demand fulfillment), with a focus on the use of information technologies as the critical enabler of supply chain efficiencies and responsiveness.

The Digital Supply Chain Management Graduate Certificate is designed to give the student the tools and ideas that help shape and define the various components of value creation. Students gain knowledge and skills in the full spectrum of supply chain activities: supplier relationships, purchasing management, operations and inventory management, logistics and transportation, quality management, and information technology.

The graduate certificate in digital supply chain management is a professional development program focused on building competency across the foundations of supply chain management. Students attain new skill sets to help them manage and enhance the value of today’s complex supply chains.

Required Core Courses:
ERP 5110 ERP Systems Design & Implementation
ERP 5310 Supply Chain Management Systems in ERP

Choose one to complete the core:
BUS 6425- Supply Chain & Project Management
ME 5708 Rapid Product Design and Optimization

Choose one of the following as an elective course:
ERP 5410 Use of Business Intelligence
ERP 6610 Advanced Customer Relationship Mgmt in ERP
ERP 6120 ERP Systems Configuration & Integration
ME 5757 Integrated Product and Process Design
ME 5656 Design for Manufacture
ME 5760 Probabilistic Engineering Design
ME 5763 Principles and Practice of Computer Aided Design

Electronic and Social Commerce
This program is designed to create successful students by developing skills in technological business practices that will provide opportunities for succeeding in today’s fast paced world.

To that end, the program focuses on the following competencies:
- Management concepts applied to IT
- Mgmt concepts applied to support of electronic commerce
- Use of business processes in IT integration
- Competitive advantage through IT
- Electronic commerce through collaborative shopping

Required Core Course:
IST 6641 Advanced Electronic & Mobile Commerce

Choose one to complete the core:
BUS 6723 Corporate Information Systems Management
IST 5251 Technological Innovation Mgmt & Leadership

Choose two of the following as elective courses:
IST 5652 Advanced Web Development
IST 5168 Law & Ethics in E-Commerce
IST 5885: Human-Computer Interaction
IST 5886: Human-Computer Interaction Prototyping
IST 6335 Mobile Technology for Business
IST 6445 Database Marketing
IST 6680 Advanced Web and New Media Studies
MKT 5310 Digital Marketing & Promotions
MKT 5580 Advanced Marketing Strategy
Enterprise Resource Planning (ERP)

Corporations worldwide have focused on improving business processes for the past two decades. In their efforts to use information technology more effectively in enabling business processes, we have seen the emergence and growth of Enterprise Systems, and more recently, Extended Enterprise Systems such as Supply Chain Management (SCM), Customer Relationship Management (CRM), Strategic Enterprise Management (SEM), and Business Intelligence. Most Fortune 500 companies have already adopted Enterprise Resource Planning (ERP) systems and many mid-size companies are also planning ERP implementations. With a commitment to keep pace with these changes in business processes and technology, the University of Missouri system joined SAP’s™ University alliance and Microsoft’s™ University Alliance programs in order to continue and expand classroom capabilities for integrating ERP software into the curriculum.

ERP can be viewed as a combination of business management practice and technology, where Information Technology integrates with a company’s core business processes to enable the achievement of specific business objectives. The Missouri S&T program prepares undergraduate and graduate students for positions as both technical and business consultants in the ERP field.

Required Core Courses:
ERP 5110 ERP Systems Design and Implementation
ERP 6120 ERP Systems Configuration & Integration

Choose two of the following as elective courses:
ERP 5240 Enterprise Portal and Mobile Application Develop.
ERP 5410 Use of Business Intelligence
ERP 5310 Supply Chain Mgmt Systems in ERP Environ.
ERP 5210 Performance Dashboard, Scorecard & Data Visualization
ERP 5510 ERP Systems Administration
ERP 6610 Advanced Customer Relationship Mgmt in ERP
ERP/IST 6444 Essentials of Data Warehouses
ERP 6220 Enterprise Performance Dashboard Prototyping

Entrepreneurship & Technological Innovation

Change and growth in Missouri and America require the training, nourishing, and flourishing of entrepreneurs. Many individuals are unaware of their capacity and ability to develop the mindset and skills required to successfully engage in entrepreneurship and technological innovation. Recent entrepreneurship research, however, indicates that many of the skills and much of the knowledge of successful entrepreneurs can be developed and taught in a classroom setting.

The Graduate Certificate in Entrepreneurship and Technological Innovation is designed to create successful technological entrepreneurs and innovators by developing skills and a mindset that will provide opportunities for succeeding in today’s fast paced world.

Required Core Courses:
BUS 5980 Business Models for Entrepreneurship and Innovation
MKT 5310 Digital Marketing & Promotions

Choose two of the following as elective courses:
BUS 5580 Strategic Management
BUS 5150 Advanced Customer Focus & Satisfaction
IST 5251 Technological Innovation Mgmt & Leadership
IST 5654 Advanced Web and Digital Media Development
IST 5886 Human-Computer Interaction Prototyping
IST 5335 Mobile Technology for Business

Human-Computer Interaction (HCI)

Demand within industry for workers with expertise in human-computer interaction (HCI) is growing. With titles such as interface designer, usability researcher analyst, usability engineer, user experience specialist, and information architect, HCI specialists bridge the gap in organizations between groups who build the technologies and groups who use the technologies. The qualifications for these positions generally fall into the following categories:

- A general knowledge in human-computer interaction,
- Skills in collecting user requirements,
- Skills in developing prototypes,
- Research skills in evaluation of the impact of technologies on humans.

Human-Computer Interaction graduate certificate prepares students for positions as HCI specialists, and provide working IT professionals with additional skills to aid in the design and evaluation of usable systems. The IST department at Missouri S&T includes some of the leading researchers in the field of HCI, with strong ties to industry usability professionals.

Required Core Courses:
IST 5885 Human-Computer Interaction
IST 5886 Human-Computer Prototyping
IST 5887 Human-Computer Interaction Evaluation

Choose one of the following as an elective course:
IST 6680 Advanced Web and New Media Studies
IST 6887 Research Methods in Human-Computer Interaction
Management & Leadership

Management and leadership are core principles in today’s ever growing technological workforce. The Graduate Certificate in Management and Leadership is intended to provide the knowledge required to manage and lead technological enterprises through knowledge of negotiations, strategy, team-building and leadership, and/or project management.

Required Core Course:
BUS 6121 Team-building and Leadership

Choose three of the following as elective courses:
BUS 5580 Strategic Management
IST 5251 Technological Innovation Mgmt & Leadership
IST 5168 Law & Ethics in E-Commerce
BUS 4111 Business Negotiations
BUS 6150 Advanced Customer Focus & Satisfaction
BUS 5470 Human Resource Management
EGMT 5320 Project Management

Mobile & Business Technology

Interest in the use of mobile technology among organizations has seen a strong, upward trend over the past few years. The proliferation of smart phone and tablet devices has presented organizations with new challenges creating and developing a coherent strategy associated with this new innovation. In order to create this strategy, organizations will need an understanding of the mobile industry in general and specific technologies supporting the trend. People capable of creating and maintaining mobile technology strategies are needed, but the in-depth education necessary for these people is limited.

The certificate is designed to cover the mobile industry as well as the technologies, devices, operating systems, user interface design, and tools of mobile applications. The focus will be on the mobile industry and technologies that allow an organization to make decisions in this dynamic domain.

Required Core Course:
IST 6335 Mobile Technology for Business
ERP 5240 Enterprise Portal & Mobile Application & Development

Choose two of the following as elective courses:
ERP 5310 Supply Chain Mgmt Systems in ERP Environment
ERP 5210 Perform. Dashboard, Scorecard & Data Visualization
ERP 6610 Ad. Customer Relationship Mgmt in ERP Environ.
IST 5652 Advanced Web Development
IST 5886 Human-Computer Interaction Prototyping

Project Management

Jointly with the Department of Engineering Management and Systems Engineering

This certificate program aims to equip students with a set of tools that will allow them to achieve Project Management Institute (PMI) standards in the project management area, to successfully manage projects and human resources, and to analyze, evaluate, and improve systems. Specifically, it will give students the ability to:

- Identify operations problems and implement solutions for improved strategic competitiveness,
- Make sound decisions, plan, and control the key resources of an organization – money and people,
- Critically analyze, evaluate, improve, or adapt existing technical and/or managerial systems
- Organize and manage complex projects.

Required Core Courses:
IST 6261 Adv. Information Systems Project Management
EGMT 5320 Project Management
EMGT 6322 Case Studies in Project Management
EMGT 6323 Global Project Management
core graduate course descriptions.

BUS 6121-Team-building and Leadership- MBA Core
This class will teach students how to work well in teams and lead teams and organizations. Management, networking, presentation skills, and sustainable business practices will be covered.

BUS 6622 - International Marketing- MBA Core
This course focuses on the challenges faced by business managers as they deal with a competitive global market. The course will examine various topics related to international marketing such as cultural differences, economic differences, differences in product and technical standards, global advertising, and international pricing and segmentation.

BUS 6723 - Corporate Information Systems Management- MBA Core
This course is designed primarily for potential managerial end users as managers, entrepreneurs, or business professionals in a technology-enabled business environment; it helps students learn how to use and manage information to revitalize business processes, improve business decision-making, manage IT projects, and gain competitive advantages.

BUS 6224 - Managerial Accounting and Control- MBA Core
This course covers managerial accounting and its critical role in decision making, monitoring, and controlling business processes.

BUS 6425 – Supply Chain and Project Management- MBA Core
This course covers supply chain management and its critical role in developing and maintaining effective and efficient processes in the organization, including operations and project management processes and principles.

BUS 6426 - Integration of Business Areas- MBA Core
Students will acquire knowledge to integrate the business functions to maximize performance efficiency and effectiveness. It will be covered through case studies and readings.

BUS 6827 - Managerial Finance- MBA Core
This course covers the use of financial tools to manage the organization. The main focus is the strategic decision-making process of modern managers responsible for major financial decisions. Topics include financial policy, capital investment analysis, dividend policy, capital structure, and other contemporary corporate finance issues.

IST 5251-Technical Innovation Management & Leadership- MS IST Core
This course focuses on the knowledge and skills necessary for the development and implementation of effective strategies for the management of technology-based organizations. This involves: developing a general management perspective on technology and innovation, examining the problems of new product development, identifying distinctive technological competencies, licensing and marketing technologies, assessing the organizational and industrial context of technology.

IST 5885- Human Computer Interaction- MS IST Core
Students examine issues and challenges related to the interaction between people and technology. The class explores the social and cognitive characteristics of people who use information systems. Students learn techniques for understanding user needs, interface prototyping, and interface evaluation.

IST 6336- Foundations of Internet Computing- MS IST Core
The foundations of Internet Computing include computer networks and web sites. Networks are covered thoroughly and research directions for networks are discussed. Web site design and research findings about site usability considerations are examined. Security of communications for computing especially wireless communications, are explored.

IST 6261- Advanced Information Systems Project Management- MS IST Core
Project management principles, first from a general perspective, and then focused specifically on information system application development are explored. Topics include requirements analysis, project scheduling, risk management, quality assurance, testing, and team coordination. Report writing and research literature searches are required.
The GMAT/GRE may be waived under the following circumstances:

1. You are a graduate of the University of Missouri System with a 3.2 or greater GPA

2. You may apply for a Graduate Certificate first, and complete the 12 credit hours in electives with a B grade or better in each class. After completion of the certificate, you may re-apply as a MBA student (the graduate classes taken for the certificate apply toward your MBA degree).

Request your transcript be mailed to:
Missouri S&T Graduate Admissions
Missouri University of S&T
106 Parker Hall
300 W 13th Street
Rolla, MO 65406-1060

Send your GMAT or GRE scores:
Email your results to: admissions@mst.edu or Request they be sent to S&T with the following codes:

GMAT School Code: RWQ
GRE Test Center Code: 6876

Upload your Resume, Letters of Recommendation & Statement of Purpose in your online application
http://apply.mst.edu

Tuition & Financial Assistance Information- http://sfa.mst.edu
Distance Education Tuition- http://dce.mst.edu/admissions/feeschedule
1. Our programs are AACSB Accredited.

2. We are among the ‘best values’ in national public universities.


4. All of our graduate courses are available via distance either synchronous (live), or a-synchronous (at a time convenient for you!)

5. We offer 11 Graduate Certificates in the areas such as Business Analytics & Data Science, ERP, Management & Leadership, and Project Management

Call us.

Department of Business & Information Technology

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