

ONLINE MASTER OF SCIENCE

MANAGEMENT INFORMATION SYSTEMS

FOCUSED IN BUSINESS INTELLIGENCE

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DEAR FRIENDS

USF is a high impact global research university dedicated to student success. USF's MIS program will appeal to individuals seeking to pursue a degree with a cohort of peers from all over the world in a highly interactive web-based environment.

The MIS program meets the needs of the marketplace for expertise in information systems, with a business intelligence focus, and is taught by renowned faculty. MIS faculty members are involved in quality research and have published in some of the leading journals in the field of MIS. In fact, a recent study ranked USF MIS faculty in the top fifteen in the world for publishing in premier journals for the period 2008-2010.

MIS students have benefitted significantly as a result of their time in the program. Graduates of the MS/MIS program at USF have secured positions in top companies including Raymond James, Tech Data, JP Morgan Chase, Citigroup, and Microsoft, just to name a few.

For all these reasons and more, we hope you will join our program. We look forward to welcoming you to the University of South Florida.

Sincerely,

Kaushal Chari, Ph.D.

Professor and Chair

Information Systems and Decision Sciences

USF College of Business



RAVI DHANWANI

Ravi Dhanwani believes the MIS program at USF is great for domestic students as well as international scholars. He wanted a graduate program that was flexible and collaborative. He found that at USF. He says learning experiences such as case competitions, networking events, and corporate partnerships helped create such an atmosphere. He feels these out-of-the-classroom experiences helped prepare him for a consulting career.

Dhanwani has extensive experience in I.T., working with IBM Global Business Services for more than four years in application and business development before starting his graduate degree at USF. He says he considered other universities for his master's degree, but decided on USF after meeting with ISDS Department Chairman Kaushal Chari and learning about USF's reputation in the field. Having achieved his master's degree in MIS, Dhanwani is now a level II consultant with Booz & Company.

OVERVIEW: Technology professionals aspiring to leadership



Successful technologists in any field share a few key attributes: creativity, organization, integration, and an ability to manage data and information efficiently. For innovators in the technology sector, these traits are not just beneficial – they are essential. The opportunities in the business realm of the world of data management are constantly expanding. Now, more than ever, there is an increased demand for database managers to build a strong foundation of strategic business systems.

Although the master's degree covers a number of advanced topics; Operations and Supply Chain Process, Advanced Systems Analysis and Design, Statistical Data Mining, and more – your education will not just be traditional lectures. By interacting with international businesses and communities, you will build your professional network and hone your communication skills, as you learn firsthand how the industry's leaders operate.

Through case studies and in-depth research, you will gain a better understanding of what makes a successful business thrive. And throughout the course of the master's degree program, industry leading faculty will share their experiences, giving even more insight into how they have achieved success and overcome challenges.

Near the end of the Management Information System's degree program, you will begin the capstone Project Management course, which will serve as a representation of the skills and knowledge that you have built throughout your courses. This course details fundamental issues for managing projects and creates an understanding of competing demands in information technology environments. Depending on prior experience, students can prepare for certification exams; Certified Associate in Project Management (CAPM) and Project Management Professional (PMP).

PROGRAM FOCUS: Business Intelligence

“ The Online Master of Science in Management Information Systems

addresses the challenges of today’s advanced technologies and technology-related business issues in order to develop the ability to compete for today’s most interesting I.T. jobs. ” - **PROFESSOR ROSANN WEBB COLLINS**

What is Business Intelligence?

Business Intelligence (B.I.) is a strategic function involving Data Warehousing, Analytics, Trend Tracking, Forecasting, Competitive Intelligence, and Consumer Data Research using advanced statistical packages such as SAS, Mini-tab and SPSS. B.I. uses technologies, processes, and applications to analyze and establish a pattern of better business decision-making. Enterprises are finding ways to leverage these growing technologies to gain a competitive advantage.

This program equips you with skills to understand business priorities and develop an integrated strategy for aligning people and business processes. Utilizing information technology to solve business challenges and opportunities enables you to champion and accomplish organizational objectives.

Curriculum differs from computer science by adding foundations of management practice. In today’s job market, top executives are calling upon specialized skill sets within the technology industry; this program helps you combine your analytical mind-set with I.T. experience and foster leadership for a broader business vision.

Online Format

Developed to help working I.T. professionals build upon existing skills and achieve career success by advancing their education, this program offers a fully online experience giving you flexibility to continue working, avoid employment gaps, and eliminate campus visits. An online delivery format means wherever you are, the classroom follows. Free from the constraints of physical meetings, you can work around busy schedules and never miss class. This program mirrors the rigorous curriculum of the on-campus program and our cutting edge technology enables you to pursue your degree with a cohort of peers from all over the world in a highly interactive web-based learning environment.



Certification

As a student, you will also have the opportunity to receive a joint SAS/USF Certificate in Analytics and Business Intelligence. Certificates are awarded to students using SAS Enterprise Miner or an equivalent SAS analytics package in the Data Mining and Statistical Data Mining courses and earn a G.P.A. of 3.0 or higher in following courses:

- 🔗 ISM 6136 Data Mining
- 🔗 ISM 6137 Statistical Data Mining
- 🔗 ISM 6218 Advanced Database Systems
- 🔗 ISM 6208 Data Warehousing

A portrait of Nicole Stamm, a young woman with long blonde hair, wearing a purple long-sleeved shirt and a necklace with a circular pendant. She is smiling slightly and looking off-camera to the right. In the background, a man with glasses is partially visible, looking down at a desk.

NICOLE STAMM

Immediately after graduating from USF, Nicole Stamm was offered a job, but that didn't stop her from wanting to pursue her masters at the same time. A recent honors graduate of the College of Business, having majored in Management Information Systems, she recently began working for AT&T as part of their global tier two network support team. She supports all of the business services that AT&T offers to business customers. She has also recently started her master's degree at the business school.

Stamm's interest in computers started at a very young age. Always one to have a computer in her home, she had unlimited access to computer hardware and software. After arriving at USF, she realized she had a passion for helping people solve real world problems by building and using information systems and decided to major in MIS.

She was involved in Kappa Delta Sorority where she was the webmaster as well as the academic excellence chair. As part of the Panhellenic Council, she also acted as the webmaster. Stamm recently worked for the James A. Haley Veterans Hospital designing and developing various SharePoint applications for different departments at the VA.

PROGRAM OF STUDY:

Database Management and Business Intelligence

“ Students develop a deep understanding of the ways that the global business environment impacts information systems, and how information systems and networks enable globalization. ”

- PROFESSOR ALAN HEVNER



Operations and Supply Chain Processes

3 credit hours

Students learn several aspects of Operations management, a discipline in business concerned with managing the transformation of inputs into outputs, with a special emphasis on business processes and business process improvement.

International Aspects of Info Systems

3 credit hours

An examination of the role of information technology (I.T.) in international organizations. Topics covered will include global networking and service levels, outsourcing and issues concerning country diversity, national I.T. environment, and IT policy.

Advanced Systems Analysis and Design

3 credit hours

Students learn to manage and perform activities throughout an information systems development life cycle, from the analysis of system requirements through system design to system implementation and operation.

Distributed Information Systems

3 credit hours

Course includes technological as well as managerial aspects of telecommunication systems and distributed systems. Topics include telecommunications, voice and data communications, local and wide area networks, wireless technologies, and distributed systems.

Enterprise Resource Planning and Business Process Management

3 credit hours

This course format is divided between lecture/discussion sessions and laboratory sessions (to enable use of mySAP for in-class exercises and demonstrations). Students will be evaluated via examinations, presentations, class discussion, case study analyses, ERP exercises, and team project. The team project requires analysis of a major business process and implementation of that process in mySAP.

Advanced Database Administration

3 credit hours

This course covers core business database technologies. Topics include database design, transaction processing, parallelism, and distributed databases. Emerging business intelligence technologies are covered.



Data Mining

3 credit hours

The course covers the rapidly-evolving data mining techniques that are becoming critical for customer relationship management and other business intelligence applications.

Statistical Data Mining

3 credit hours

Students learn different methods and models to address statistical data challenges. Starting with methods for data exploration and visualization, you will learn how to build statistical models around patterns in your data.

Enterprise Information Systems Management

3 credit hours

An advanced study of information system management to include system planning, project selection, project management, and organizational information management policies.

Data Warehousing

3 credit hours

This course covers the rapidly emerging data warehousing and data mining technologies that play a strategic role in business organizations.

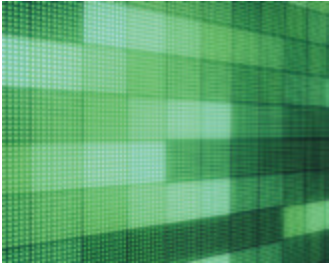
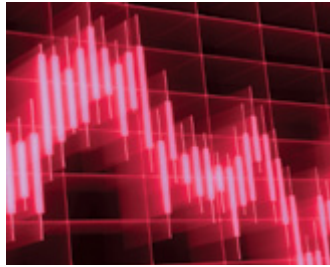
Project Management

3 credit hours

The objective of this course is to become familiar with fundamental issues for managing project management and to develop an understanding of competing demands in information technology environments. Depending on prior work experience, a student can prepare to take certification exams for Certified Associate in Project Management (CAPM) or Project Management Professional (PMP).

Total: 16 months / 33 credit hours

STUDENT SUCCESS: Manage Information and Your Career



1) Daniel Pulley went from studying people to studying computer systems. Pulley, an anthropology graduate of the University of South Florida, returned to USF for the Management Information Systems program.

Pulley says he enjoys the hands-on learning and finds the curriculum challenging and rewarding. He also appreciates the flexibility to pursue specific interests. Pulley worked as an analyst for the United States Drug Enforcement Administration and now serves as an analyst for Jagged Peak e-commerce company.

2) Olaoluwa Ola Adaramola a recent graduate, accepted a position as a technical support engineer for Microsoft and attributes his success to USF.

Adaramola graduated from the University of Lagos in Nigeria with a Computer Science degree, and says USF's challenging curriculum helped propel his career. Adaramola participated in bootcamps and networking fairs through the MIS Society student organization. He also says the opportunity to take business classes outside of the MIS program enabled him to become a more well-rounded professional.

3) Janani Jayaraman graduated and had the opportunity to choose between firms such as Citi, Vericle, and Roger West Creative Code. Jayaraman credits the connections made at USF and accepted a position with Goldman Sachs as a programmer analyst.

Jayaraman earned a bachelor's degree in Information Technology from BSA Crescent Engineering College in Chennai, India. While a student, she served as a systems analyst with Verizon Communications and also won two prestigious competitions with IBM - Exploring Lotus: The XPages Adventure (2011) and IBM Master the Mainframe (2010).

4) Moiz Ghadiyal says motivation comes from the belief that through technology; he will create a positive impact on people across the globe. Ghadiyal interned for Microsoft in Boston, Mass. and worked in designing, developing, and testing Microsoft Sharepoint. Ghadiyal says USF was pivotal to obtaining a software development engineer position with Microsoft.

Ghadiyal earned a bachelor's degree in Computer Technology from Veermata Jijabai Technological Institute in Mumbai, India, and chose USF for expert faculty and flexible coursework.

CAREER POSSIBILITIES:

CAREERS

- Database Manager
- Database Administrator
- Programmer
- Engineer
- System Analyst
- Developer
- Project Manager
- I.T. Auditor
- Network Administrator
- SQL Database Manager
- .Net and Java Developer
- Chief Risk Officer
- Chief Technology Officer
- Chief Information Officer

RECENT GRADUATE PLACEMENTS

RAYMOND JAMES

Microsoft

citigroup

JPMorganChase

Tech Data

DTCC

booz&co.

Goldman Sachs

sas

DATA MINERS: Information Systems Decision Sciences

“Leading firms today recognize data as an asset. We are helping them address the question of how best to leverage this asset measure, and hopefully manage customer loyalty.” - PROFESSOR BALAJI PADMANABHAN

By Lorie Briggs | USF College of Business

Research shows that a repeat sale is one of the most important sales a company can make. But what keeps clients loyal to a product or service? According to two USF business professors, smart business leaders use analytics to answer such questions.

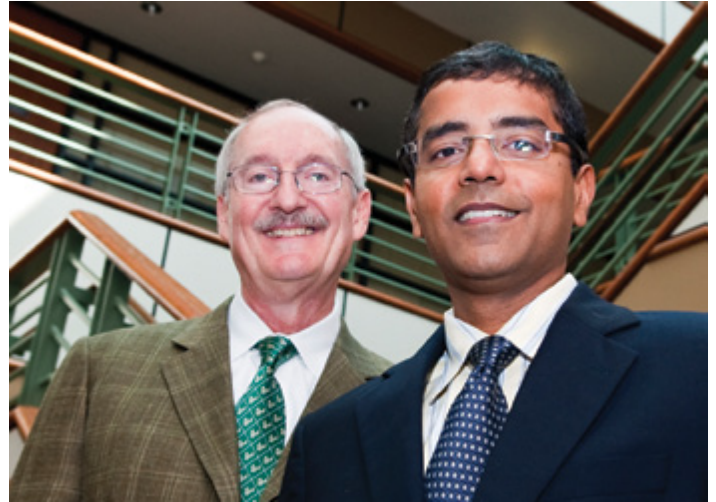
“In business, information is plentiful,” says Professor Alan Hevner. “Yet, intelligent use of that information to inform and drive operations is rare.”

FedEx is collaborating with Hevner and fellow professor Balaji Padmanabhan on an innovative study that demonstrates how data analytics can address fundamental business issues. Working with Crystal Shi and Michael Cuenco from FedEx Services Quality Leadership team, these USF researchers are using predictive data mining models to identify issues that customers care about most.

“We are studying the role service quality plays in retention,” says Hevner. “FedEx is highly focused on customer service and was already gathering data on service-related priorities.”

“Leading firms today recognize data as an asset,” says Padmanabhan. “We are helping them address the question of how best to leverage this asset to measure, and hopefully manage, loyalty,” he adds. The answer: find patterns to identify and rank factors that impact customer loyalty.

“With knowledge of these factors, customer retention programs can be developed. Actions can be taken to identify and retain loyal, committed clients,” Hevner adds.



The project illustrates the importance of business research and how the findings enhance education. “As we prepare students for careers, such research can showcase real-world analytics,” says Padmanabhan. “Students understand real-world usage directly from firms that use predictive mining to answer operational questions.”

It can bring global companies to campus, too. Recently, Shi used Skype’s online video application to chat with graduate students in Padmanabhan’s Data Mining course, discussing the firm and answering student questions.

This research is designed to provide answers that help drive sales, keep customers and improve the bottom line.



MARSHALL
STUDENT CENTER

CORE STRENGTH: Industry Experts

“ This program is taught by internationally recognized research leaders in the I.T. fields. The faculty and curriculum combine integrated knowledge in technical and managerial skills required for success in I.T. ” - **PROFESSOR ALAN HEVNER**



Kaushal Chari

Department Chair and Professor
Ph.D., University of Iowa

USF Information Systems Decision Science Department Points of Pride

- ✦ American Association for the Advancement of Science (AAAS) Fellow, 2012 - Alan Hevner
- ✦ 2nd Place - International Case Competition on the Strategic Value of I.T. Management, 2011, - Ravi Dhanwani, Karthik Sekhar, and Telma Frege
- ✦ Best Paper Award, IADIS International Conference, Rio de Janeiro, Brazil, 2011
Varol Kayhan and Anol Bhattacharjee
- ✦ Herbert A. Simon Best Paper Award, Sixth International Conference on Design Science Research in Information Systems, 2011
Grandon Gill and Al Hevner
- ✦ #14 World ranking in MIS research for publications in premier journals (Management Information Systems Quarterly, and Information Systems Research) - USF MIS Research



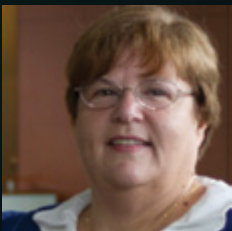
Manish Agrawal

Associate Professor
Ph.D., SUNY Buffalo



Don Berndt

Associate Professor
Ph.D., New York University



Rosann Webb Collins

Associate Professor
Ph.D., University of Minnesota

Grandon Gill

Professor
DBA, Harvard Business School



Alan R. Hevner

Professor and Eminent Scholar
Ph.D., Purdue University



Wolfgang Jank

Professor
Ph.D., University of Florida



Baliaji Padmanabhan

Associate Professor
Ph.D., University of New York



Ron Satterfield

Instructor
Ph.D., University of Indiana



Richard Will

Associate Professor
Ph.D., University of Houston



Points of Pride Continued

- ✎ #8 Ranked MIS Researcher in the World form publications in premier journals (Management Information Systems Quarterly) during 2001-2010 - Anol Bhattacharjee
- ✎ 2nd Place - Computer Associates' Smart Phone Challenge Competition, 2010
Sohail Bhola, Jeremy Fisher, and Naresh Kumar Kalla
- ✎ Design Science Award 2010 (from INFORMS Information Systems Society)
Johan Perols, Kaushal Chari, and Manish Agrawal
- ✎ Lifetime Achievement Award for Contributions to Design Science Research, DESRIST 2009 - Al Hevner
- ✎ #7 World ranking in MIS research for publications in premier journals (Management Information Systems Quarterly, and Information Systems Research) during 2007-2009 - USF MIS Research
- ✎ Magid Igbaria Outstanding Conference Paper Award - ACM SIGMIS/SIGCPR Conference 2007 - Sandra Newton, J. Ellis Blanton, and Steve Wingreen
- ✎ Instructional Innovation Award 2007 (from Decision Sciences Institute) - Grandon Gill
- ✎ Instructional Innovation Award 2005 (from Decision Sciences Institute) - Grandon Gill
- ✎ Orbix Award 1998
(from Iona Technologies) - Kaushal Chari



USF COLLEGE OF BUSINESS



The USF College of Business provides a high-quality, diverse learning environment preparing students to contribute to and take leading positions in business and society. Our teaching, scholarship, and service link theory and practice to benefit the university and the communities it serves.

USF's College of Business does more than simply disseminate knowledge - it transforms minds while arming students with the skills and knowledge to take leadership positions in business and society. Here, students begin developing as professionals from their first moments on campus.

Our Priorities are Simple:

- ✎ Pursuing academic excellence by attracting and retaining the very best faculty
- ✎ Ensuring student success in a progressive environment
- ✎ Enhancing student experiences through innovative programs
- ✎ Creating centers of excellence where students learn from faculty who practice what they teach

Reflecting the changing I.T. landscape, the needs of employers, and using the insight gleaned from a panel of corporate partners, USF revised its MIS curriculum to ensure grads have both business savvy and practical information systems knowledge. MIS majors blend technical skills required in today's global marketplace.

Business professionals must be able to communicate across teams, across industries, and even across the globe. USF is infusing communication across its business curriculum, giving USF graduates a competitive edge over peers from schools requiring only a single business communication course. USF students are building better communication skills by applying them in context into their business classes.

National and international case competitions pit our students against the world's best universities so they can apply what they learned in the classroom to a real-world business technology case.

The Online Master of Science in Management Information Systems meets the needs of the marketplace for expertise in both information technology and management. Students are provided with opportunities to strengthen their analytics skills and also receive expert coaching that helps equip them with the skills needed to work on teams, manage projects, and influence people.



USF: Global Impact

“ **USF** is one of the nation’s largest and most comprehensive metropolitan research universities. ”

The University of South Florida is a high-impact, global research university dedicated to student success. USF ranks 50th in the nation for federal expenditures in research and total expenditures in research among all U.S. universities, public or private, according to the National Science Foundation. Serving more than 47,000 students, the USF System has an annual budget of \$1.5 billion and an annual economic impact of \$3.7 billion. USF is a member of the Big East Athletic Conference.

USF Points of Pride

- ✦ USF ranks among Forbes America’s Best Colleges
- ✦ USF is the nation’s fastest growing research university in federal funding
- ✦ USF is one of the top 50 U.S. universities for federal research expenditures
- ✦ USF is ranked #8 Up and Coming Universities in 2012 U.S. News Best Colleges
- ✦ USF is ranked #10 among universities world-wide for receiving U.S. patents in 2011

<http://usf.edu>



APPLY NOW

Applying is Easy

Visit our website at <http://uc.usf.edu/mis> and click apply. Online, you will find detailed application instructions. Our online application is fast and efficient. Plus, our Student Success Specialist is waiting to help guide you through the process.

Eligibility Requirements

Incoming students are expected to have the following as prerequisites:

- Minimum Grade Point Average equivalent to B or 3.00
- One semester of a high-level, object oriented programming language (e.g., C#, C++, Java) or substantial programming experience
- One semester of Information Systems Analysis and Design
- One semester of Database Systems or equivalent experience
- A course in Statistics
- A course in Economics
- A course in Financial Accounting

These required prerequisite courses may be taken concurrently with courses in the MS/MIS program. Prerequisite courses do not count toward the 33 credit hours of course requirements in the MS/MIS program. While work experience is not required for admission to the program, it is highly recommended.

Contact Us

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USF College of Business Accreditation

AACSB Accreditation represents the highest standard of achievement for business schools worldwide. Less than five percent of the world's 13,000 business programs have earned AACSB Accreditation. AACSB-accredited schools produce graduates that are highly skilled and more desirable to employers than other non-accredited schools.

USF Accreditation

The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone 404-679-4500) to award degrees at the baccalaureate, master's, specialist, and doctoral levels, including the Doctor of Medicine.

The information presented in this brochure is correct to the best of our knowledge. We hope you will alert us to any inaccuracies. We apologize for any concern they may cause.

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