

# SPEARS BUSINESS MANAGEMENT INFORMATION SYSTEMS

## #SPEARSBIZBOUND



**SPEARS SCHOOL  
OF BUSINESS**

The management information systems degree focuses on the business applications of information technology, data analytics, and cyber security. This includes emphasizing necessary skills required in the analysis, development, and implementation of various information, communication, data analytics, and security-related technologies critical in all organizations.

**Available Options:** *Data Science, Information Assurance, Five-year Bachelor's in MIS to Master's in Management Information Systems or Master's in Business Analytics and Data Science, Accelerated MBA Program*

## Management Information Systems Insights:

The MIS degree prepares you for 19 of CNNMoney/PayScales' Best Jobs in America-Top 100 Careers

Center of Academic Excellence in Information Assurance - [www.nsa.gov](http://www.nsa.gov)

Deloitte DATA Lab for instructional excellence

Top Cyber Security Schools (No. 12) by CyberDegrees.org

**Student Organizations:** Association of Information Technology Professionals, Information Security Assurance Club



## Companies Hiring Our Graduates:

Paycom

Cerner

Koch Industries

Google

ExxonMobil

Phillips 66

ConocoPhillips

Ernst & Young

InterWorks

OneOK

## Career Paths:

### Systems Development:

System Integration and Implementation, Systems Analysis, Database Administration, Information Systems Design

### Security/Network Technology:

Information Assurance Analysis, IT Infrastructure Design and Support, Network Communications

### Web Design & Management

Programming, Software Design, Website/Mobile App Design, Project Management



DEPARTMENT OF  
**MANAGEMENT SCIENCE  
AND INFORMATION SYSTEMS**  
Spears School of Business



## Major Specific Course Curriculum:

### Web Application Development:

Develop web applications involving database development, user interface design, and asynchronous client-side programming.

### System Analysis & Design:

This course covers the core concepts and skills for developing software in an organizational context, including agile software development techniques, as well as the socio-cultural aspects of the systems analysis and design process.

### Database Systems Design, Management & Administration:

Extensive data modeling implemented and queried using SQL, DDL, and DML. Data integrity and accessibility in a shared network environment. Related database concepts including data warehousing, database security, data and database administration.

### Introduction to Information Assurance:

Survey course of the elements of information assurance and security with an emphasis on the management impact to corporations and businesses engaged in information services and e-commerce. Leads to more specialized classes such as Ethical Hacking, Secure Systems Auditing, etc.



## SPEARS STUDENT EXPERIENCE

### A Day with: **Jocelyn F.** | *Management Information Systems*

- Print off slides for next class at computer/printing lab behind Watson Trading Floor.
- Attend Systems Analysis and Design class where we are currently exploring the concepts and skills needed to develop agile software.
- Work in Spears Business as a Spears Student Ambassador where I assist with analytics and data visualization to aid in decision-making for prospective student events and programming.
- Attend Latino Business Student Association meeting where we are listening to a panel of Latino leaders in our community.
- Lead rehearsals for Mr. & Miss Hispanic Latino OSU.



Are you  
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