

# Master of Science Management Information Systems

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Virtually all software used today – the source of so much automation and disruptive innovation in our world – is created by human beings. Simply put, software cannot create new software. Instead, software solutions must be created by people: teams of highly skilled information technology professionals, who together perform a creative, challenging, and highly labor-intensive process.

The Master of Science in Management Information Systems, or MSMIS, prepares students to contribute to and, ultimately, to lead information technology teams in designing and delivering software solutions that effectively address real-world business needs.

Creating software requires an extraordinary breadth of skill sets. IT professionals need a strong command of information technology itself: programming, databases, business analytics, data communications, security, and more. However, technology skills alone are insufficient. To create and deliver successful software solutions requires a much broader, richer range of skills, which include:

- **Vision:** Identifying the business problem or opportunity, envisioning the IT solution, and determining its feasibility.
- **Requirements:** Determining features the system must provide and designing how those features work.
- **Selecting approach:** Identifying and evaluating key alternatives, including whether to build or buy the solution.
- **Project leadership:** Setting and managing business customer expectations through effective negotiations and communications.
- **Project management:** Assembling the team, planning the project, executing development, configuring the software, and testing.

- **Managing change:** Identifying and mitigating risks and issues, including helping the business customer prepare the organization to use the new software.

The MSMIS addresses all these areas; it is this breadth that distinguishes the MSMIS from the more narrowly and technologically focused computer science degree. Furthermore, it is because of this wide range of skills and responsibilities that MSMIS graduates can expect to take on one of the most challenging and rewarding professional roles that a student can pursue.

## About the program:

The Master of Science in Management Information Systems is an on-campus program. The degree requires 30 hours of coursework via ten three-hour courses. Students will benefit from an MIS program that is recognized as one of the leaders both nationally and in the southeastern region. The program is broadly focused on IT management and solutions delivery. Specific areas of emphasis offered include cyber security and decision analytics. A student may also tailor her program by taking approved electives in Management, Statistics, Marketing, and other areas.



Culverhouse  
College of Business

Information Systems, Statistics and  
Management Science



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Sample MIS Courses	Number of Credit Hours
<b>MIS 511</b> Management Information Systems	3
<b>MIS 525</b> IS Project Management	3
<b>MIS 527</b> Emerging Information Technologies	3
<b>MIS 540</b> Advanced Database Management Systems	3
<b>MIS 541</b> Business Analytic Support Systems	3
<b>MIS 598</b> Research in MIS	3
<b>MIS 560</b> Applied Cyber Security	3
<b>MIS 562</b> Behavioral Cyber Security	3
<b>MIS 564</b> Organizational Security Management	3
<b>MIS 566</b> Introduction to Cybercrime and Digital Forensics	3
<b>Total Hours</b> : Elective substitutions must be approved by the Program Coordinator.	<b>30</b>

## Additional Requirements

- Bachelor's degree from an accredited university or college in Management Information Systems (MIS), Computer Information Systems (CIS), Computer Science (CS), or Software Engineering
- Transcripts from all colleges attended
- A Statement of Purpose outlining your reasons for desiring the degree
- An up-to-date resume
- Three letters of recommendation
- An official and competitive (60th percentile or higher) GRE or GMAT score

### Contact us for more information:

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