THE MASTER OF SCIENCE IN COMPUTER INFORMATION SYSTEMS [MSCIS PROGRAM]

- Prepares graduates for professional success in modern and emerging areas of computer technology/systems, spanning various industries including healthcare, banking, and finance, among others
- Emphasis is given on data analysis, operations research, and organizational decision-making
- The Bureau of Labor Statistics projects 21 percent employment growth for computer systems analysts by 2024, faster than the average of all occupations. During that time period, about 118,600 new jobs should open up. (Source: U.S. News & World Report)
- The Labor Department reports that computer systems analysts made a median salary of $82,710 in 2014. (Source: U.S. News & World Report)

MSCIS LEARNING OUTCOMES

- Ability to demonstrate understanding of database management, data analytics, computer networks, and cybersecurity
- Ability to recognize design and implement solutions for data analytics, data storage, and data networks
- Fundamental knowledge of methods and systems for organizational decision-making

GRADUATE ENGINEERING

Dr. Divya Choudhary • dchodhry@cbu.edu
650 EAST PARKWAY SOUTH • MEMPHIS, TN 38104
(901) 321-3427 • www.cbu.edu/MSCIS

COMPUTER INFORMATION

MSCIS SYSTEMS

ON CAMPUS

& ONLINE/HYBRID
APPLICATION AND ADMISSION

A bachelor’s degree or its equivalent from an accredited U.S. college or university or from a foreign institution of acceptable standing is required for admission.

Applicants for admission should demonstrate a high promise of success and should submit:

1. One official transcript of previous academic credits from each of the colleges or universities previously attended
2. Two letters of recommendation from immediate supervisors or other individuals qualified to attest to the applicant’s preparation for and ability to perform graduate study
3. A completed Graduate Engineering Application Form with application fee
4. Current Resume & Personal Statement describing the fit between career objectives and the MSCIS degree.
5. International Applicants Only: In addition to above, International applicants are also required to provide
   - Scores from the TOEFL or IELTS
   - World Education Services (WES) Comprehensive Course-by-Course Report is required for individuals whose highest degree is from a foreign university. The course-by-course report will evaluate the credentials of a prospective student.
   OR
   - A detailed evaluation by Educational Perspectives
4. Current Resume & Personal Statement describing the fit between career objectives and the MSCIS degree.
5. International Applicants Only: In addition to above, International applicants are also required to provide
   - Scores from the TOEFL or IELTS
   - World Education Services (WES) Comprehensive Course-by-Course Report is required for individuals whose highest degree is from a foreign university. The course-by-course report will evaluate the credentials of a prospective student.
   OR
   - A detailed evaluation by Educational Perspectives

Due to variations in education, past performance, experience, and academic objectives, each candidate is evaluated individually for admission.

A candidate for the program should:

1. Have an undergraduate degree from an ABET accredited engineering program or in a discipline that emphasizes quantitative reasoning and analysis (such as mathematics, physics, chemistry, biology, computer science, and quantitative business administration)
2. Be proficient in written and spoken English

Applications should be completed online at www.cbu.edu/mscis (select “Apply Now”). Official transcript(s), letters of recommendation, and other documentation should be sent directly to:

Program Director, Graduate Engineering
Christian Brothers University
650 East Parkway South
Memphis, TN 38104

MSCIS REQUIRED COURSES

<table>
<thead>
<tr>
<th>Non-Thesis (33 credits)</th>
<th>Thesis Option (33 credits)</th>
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<tbody>
<tr>
<td>Core Courses (21 credits)</td>
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<tr>
<td>Database and Big Data Management</td>
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<td>Data Science</td>
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<td>Operations Research</td>
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<td>Computer Networks &amp; Cyber Security</td>
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<td>Software Programming for Engineers</td>
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<td>Technical Project Management</td>
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<td>Management of Information Systems</td>
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<tr>
<th>Project or Research (3 credits)</th>
<th>Thesis (6 credits)</th>
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<tr>
<td>Capstone Project OR Research</td>
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<td>Thesis I</td>
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<td>Thesis II</td>
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MSCIS ELECTIVE COURSES

FOR THESIS & NON-THESIS

Theory and Applications in Engineering Management
Engineering Finance and Accounting
Quality Assurance
Advanced Engineering Economy
Strategic Management
Engineering Law
Special Topics
Internship
Professional Seminar

*Note: Can be completed on campus or online/hybrid