

## 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. Official Graduate Record Examination (GRE) scores
5. International Applicants Only: Scores from the TOEFL if English is not their native language or was not the language of instruction for their baccalaureate degree (a proficiency in English at least the equivalent to a TOEFL score of 550 paper-based test, or 231 computer-based test, or 79 internet-based test must be demonstrated)
6. International Applicants Only: 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. Their mailing address is World Education Services; P.O. Box 5087; Bowling Green Station; New York, NY 10274-5087
7. Any other requirements set by the Academic Graduate Council and/or the Graduate Engineering Curriculum Committee

Due to variations in education, past performance, age, 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. Have a grade point average of 3.0 on a 4.0 scale in his or her undergraduate major
3. Be proficient in written and spoken English

Applications should be completed online at [www.cbu.edu/memp](http://www.cbu.edu/memp) (select "Online Application"). 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

**Call (901) 321-3282 or (866) 770-MSEM (6736)**

**Graduate & Professional Studies at Christian Brothers University  
(901) 321-3291 or (888) 968-6228**

**For information in Illinois, call (815) 836-5610**

# MASTER OF SCIENCE IN ENGINEERING MANAGEMENT

**THE MSEM CURRICULUM SUBJECT AREAS** include management and leadership concepts, business functions, social/people skills, teamwork, and communication/presentation skills; problem-solving models; information technology; and research.

The learning outcomes are as follows:

1. The demonstration of an understanding of management and leadership skills in an engineering/ technical environment
2. The development of the competence to interact and communicate effectively with all functional areas of an organization
3. The development of a focus on continuous improvement through knowledge of quality management principles, standards, and processes
4. The demonstration of the ability to work with and lead teams to accomplish stated objectives
5. The demonstration of the knowledge and use of project management procedures
6. The demonstration of applications of research methodologies and problem-solving skills
7. Collaboration with classmates and instructors around the world fosters an understanding of management issues related to globalization

**THE PROGRAM CONSISTS OF 33 SEMESTER HOURS** of academic work. There are eight required core courses, a two-course technical area, and master's thesis. Students enrolled on a part-time basis may complete the curriculum in two years. Full-time students may complete the program in one year.

*Christian Brothers University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools [1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number (404) 679-4501] to award the Bachelor's Degree and the Master's Degree.*

# MSEM ONLINE

## MASTER OF SCIENCE IN ENGINEERING MANAGEMENT

## LEWIS UNIVERSITY

in collaboration with

Christian  
Brothers  
University



# THE MASTER OF SCIENCE IN **ENGINEERING** MANAGEMENT

online program builds upon bachelor degree preparation in engineering and other technical disciplines such as biology, chemistry, computer science, mathematics, physics, and quantitative management.

As you pursue the MSEM online degree, you will have the same services and benefits as a student in the traditional classroom. Like all Christian Brothers University students, you will be taught and mentored by accomplished professors who uphold excellence in teaching. The MSEM professors provide individualized attention in the convenience of a virtual environment. You will communicate with your professors via email and online chat discussions. In addition, a CBU online education will allow you to work with classmates in other countries as you gain a global business perspective in technology and management.

Effective management of engineering and other technical functions is increasingly important to an organization's productivity and performance results.

This is due in part to the evolution and growth of technologies, and the expanding use of a cross-functional team approach to planning and decision making. The ability to lead and manage "knowledge workers" such as engineers, scientists, and other technical professionals requires a unique set of skills, education, and experience which is at the core of MSEM degree.

The graduates of the MSEM program are uniquely qualified to manage technical areas in most organizations and to manage broader functions, i.e. senior management in high-tech companies. While the technical areas are numerous and diverse, management responsibilities are basically the same for all disciplines.

The fundamental task of management remains to make people capable of joint performance through common goals, common values, the right organizational structure, and to provide the training others need to perform and to respond effectively to change.

www.cbu.edu/memp

Christian Brothers University  
Catholic. Lasallian. Distinctive.

## REQUIRED COURSES

*(All courses are three credit hours)*

Complete course descriptions are available online at [www.cbu.edu/memp/courseDescrip.html](http://www.cbu.edu/memp/courseDescrip.html)

- ENGM 600. **Engineering Management Theory**
- ENGM 602. **Engineering Accounting**
- ENGM 603. **Engineering Finance**
- ENGM 604. **Social, Legal and Ethical Considerations for Engineering Managers**
- ENGM 605. **Quality Assurance**
- ENGM 606. **Computer Applications**
- ENGM 607. **Operations Research**
- ENGM 695. **Research Methods in Engineering Management**
- ENGM 696. **Thesis** *(Prerequisite: MEM 695)*

## ELECTIVE COURSES

*(Two required)*

- ENGM 624. **Knowledge Engineering**
- ENGM 636. **Computer Networks**
- ENGM 637. **File Organization and Data Base Management**

