

ACADEMIC CREDITS

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The Business Excellence Consortium (BEC), at MSOE, offers extensive educational programming for business professionals. These educational opportunities allow individuals to learn about and gain skills related to leading edge business concepts and practices. MSOE's Rader School of Business (RSOB) offers several bachelor's degree programs and two master's degree programs; one for students working in, or desiring to work in, management and other business-related fields. The other master's degree prepares individuals to develop, apply and manage information systems used by health care organizations.

Individuals who successfully complete the Business Excellence Consortium's educational programs that follow will have the opportunity to count these experiences toward their Rader School of Business degree requirements:

- ✓ **Lean Associate Certificate** - Individuals who successfully complete the Lean Associate Certificate are awarded 3 undergraduate credits for MS3401 that may be used to satisfy Operations Management concentration electives in the BSM, BSB, or BSIB programs.
- ✓ **Lean Lead Certificate** - Individuals who successfully complete the Lean Lead Certificate are awarded 6 undergraduate credits for MS4401 that may be used to satisfy Operations Management concentration electives in the BSM, BSB or BSIB programs.
- ✓ **Lean Master Facilitator Certification** – Individuals who successfully complete the Lean Master Facilitator Certification are awarded 3 graduate credits for EM7475 Lean Master Facilitation.
- ✓ **Six Sigma Yellow Belt Certificate** - Individuals who successfully complete the Six Sigma Yellow Belt Certificate are awarded 3 undergraduate credits for MS3406 that may be used to satisfy Operations Management concentration electives in the BSM, BSB or BSIB programs.
- ✓ **Six Sigma Green Belt Certificate** - Individuals who successfully complete the Six Sigma Green Belt Certificate are awarded 6 undergraduate credits for MS4406 that may be used to satisfy Operations Management concentration electives in the BSM, BSB or BSIB programs. (Participants who complete the advanced Black Belt certification and desire undergraduate credit are eligible for 6 credits for MS4406.)
- ✓ **Six Sigma Black Belt Certification** - Individuals who successfully complete the Six Sigma Black Belt Certification are awarded 6 graduate credits: 3 graduate credits for EM-7461 Six Sigma Black Belt Concepts by passing the certification exam and 3 graduate credits for EM-7462 Six Sigma Black Belt Project for successfully completing a project.
- ✓ **Project Management Associate Certificate** – Individuals who successfully complete the Project Management Associate Certificate are awarded 3 undergraduate credits that will be applied toward the completion of MS-4801 Project Management, a required course in all undergraduate business programs.
- ✓ **Project Management Lead Certificate**- Individuals who successfully complete the Project Management Lead Certificate are awarded 6 graduate academic credits EM5902 and EM5904 that may be used toward requirements in the MSEM degree program. *Individuals who desire undergraduate credits and who qualify may earn credit for EM5902 and EM5904 that may be used to satisfy Operations Management concentration electives in the BSM, BSB or BSIB programs.*
- ✓ **Project Management Master Certification** – Individuals who successfully complete the Project Management Master Certification are awarded 3 graduate credits for EM5906 that may be used to satisfy requirements of the MSEM program. *Individuals who desire undergraduate credits and who qualify may earn credit for EM5906 that may be used to satisfy Operations Management concentration electives in the BSM, BSB or BSIB programs.*

MSOE does not guarantee that BEC programs / certificates can be used toward degree requirements at another college or university.

Individuals must make academic credit arrangements with their degree granting college.

The matrix on the following page outlines the BEC to RSOB course conversion. All BEC participants who desire academic credits should obtain approval from the program director of their intended MSOE degree.

BEC to RSOB Course Matrix

BEC Course	Undergrad Course	Graduate Course
Lean ASSOCIATE Certificate BEC0101	MS3401 Applied Operations Management: Lean Techniques 3 credits	
Lean LEAD Certificate BEC0102	MS4401 Applied Operations Management: Lean Lead Certification 6 credits	
Lean MASTER Facilitator Certification		EM7475 Lean Master Facilitation 3 credits
Six Sigma YELLOW Belt BEC0103	MS3406 Applied Operations Management: Six Sigma Introduction 3 credits	
Six Sigma GREEN Belt BEC0104	MS4406 Applied Operations Management: Six Sigma Advanced 6 credits <i>*Undergraduate students can earn MS4406 credit for either completing BEC0104 or BEC0105</i>	
Six Sigma BLACK Belt Certification BEC0105 undergrad BEC0110 / BEC0111 grad		EM7461 Six Sigma Black Belt Concepts 3 credits EM7462 Six Sigma Black Belt Project 3 credits
Project Management ASSOCIATE BEC0106	MS4801 Project Management 3 credits	
Project Management LEAD BEC0107	<i>**Undergraduate students who qualify can earn graduate credits as listed to the right that may be used toward the requirements of an undergraduate degree program. BEC participants seeking undergraduate credit should obtain approval from the program director of their intended MSOE bachelor's degree.</i>	EM5902 Advanced Project Management: Leading Project Teams 3 credits EM5904 Advanced Project Management: Financial Concepts and Techniques 3 credits
Project Management MASTER Certification BEC0190	<i>**Undergraduate students who qualify can earn graduate credits as listed to the right that may be used toward the requirements of an undergraduate degree program. BEC participants seeking undergraduate credit should obtain approval from the program director of their intended MSOE bachelor's degree.</i>	EM5906 Advanced Project Management: Value Management 3 credits

Procedure for Academic Credit Award

Current MSOE student (A current student is an individual that has been admitted to an academic program, is in good academic standing and is currently pursuing a degree.)

1. Students should check with their academic advisor to make sure the BEC program satisfies a credit requirement for their academic program.
 2. Upon the completion of the BEC training events, the student should provide his/her academic adviser with a copy of their "BEC record" which includes their attendance information, test results and a copy of the project work where appropriate. The "BEC record" and project evaluation may be picked up from the BEC staff located in the Enrollment Management Department.
 3. The academic adviser should verify the student's information on the student's electronic transcript, through Jenzabar, and provide the Registrar's Office either by e-mail or in writing which course requirements the student has satisfied by providing the course number, course title and the number of credits earned.
 4. The registrar will assign the credit to the student and will file the documentation, provided by the adviser, in the student's file. A letter grade will not be assigned to MSOE courses awarded for BEC training. A student's academic record will include a designation of equivalent credit bearing course(s) and the notation of **TR**. Although the course(s) awarded may be applied toward MSOE degree requirements, the **TR** designation carries grade point calculation credit value.
- * *Graduate students are limited to applying a maximum of nine credits of BEC and other approved transfer universities coursework toward their degree program.*

BEC participant but not a current MSOE student (The individual has participated in and has completed the necessary requirements of completion for the required BEC program but is not currently admitted to a MSOE academic program.)

1. To be awarded credit for BEC training, non-matriculants must be admitted to an applicable MSOE academic program. Thus, the prospective student must complete the admission process (Admission Office contact information (800) 332-6763 or explore@msoe.edu).
 2. Upon being admitted the student's "BEC record" and project work, along with additional college transcripts will be forwarded to the academic program director and evaluated for transfer credit according to the traditional transfer evaluation process.
 3. The program director will determine which credits the prospective student has already earned and will validate the "BEC record" with the student's electronic transcript. The evaluation will be forwarded to the Enrollment Management Department. The enrollment management staff completes a letter that informs the prospective student of the credit they have transferred or earned.
 4. A copy of this letter is forwarded to the Registrar's Office and credit is assigned to the prospective student. A copy of the letter is placed in the student's academic file. A letter grade will not be assigned to MSOE courses awarded for BEC training. A student's academic record will include a designation of equivalent credit bearing course(s) and the notation of **CR** indicating academic credit was earned.
 5. BEC participants who wish transfer credit to another university must apply and be accepted into an applicable MSOE degree program.
 6. **Students are strongly encouraged to check with their transfer university regarding acceptance of the BEC courses. MSOE assumes no responsibility for the acceptance of its credit by another college/university.**
- * *Graduate students are limited to applying a maximum of nine credits of BEC and other approved transfer universities coursework toward their degree program.*

MSOE Rader School of Business Degree Programs

The Rader School of Business offers the following degree programs:

Undergraduate Programs

Bachelor of Science in Business (BSB). The BSB degree offers students a unique blend of technical and management courses. This program provides you with the skills and knowledge needed to manage and lead in a technical oriented organization. In addition, students will have the opportunity to further develop these specialized skills and capabilities in areas such as accounting, marketing/sales and operations.

*Contact Information: Dr. Steven Bialek, program director,
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Bachelor of Science in International Business (BSIB). The BSIB provides a strong foundation for students in business and management, and the availability of a large number of elective courses that allow for customization in areas such as information systems, networking, marketing and e-business, and financial management. A cornerstone of the international business program is the required one-year study abroad during the junior year. MSOE has an exchange agreement with the Lübeck University of Applied Sciences, Lübeck, Germany, where students from Lübeck University and MSOE take classes together for one year. The classes are taught in English with a year of German included in the curriculum. Lübeck University is very similar to MSOE in emphasizing applications-oriented degrees. Courses in international business, finance, systems analysis, logistics, Integrated Systems (SAP) and German language and culture are part of the study program at Lübeck University. Upon successful completion of the junior year and completion of the senior year at MSOE, graduates will be awarded two bachelor degrees: Diplom-Wirtschaftsingenieur (B.S. Business Engineer) from Lübeck University of Applied Sciences and Bachelor of Science in International Business from MSOE.

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Bachelor of Science in Management, degree completion program (BSM). The BSM is aimed at providing the opportunity for those with an associate degree or two years of college to complete a four-year degree in management. It is an especially attractive option for those considering a career change, or who have found their career path limited by the lack of a formal degree in a business-related field. The management program provides a student with the opportunity to develop superior management skills and capabilities. In addition, students can extend their competencies in a field of study including: Business Administration, Financial Management, Information Systems (Computer Systems and Computer Networking), Marketing Management, Operations Management. Students who are presently enrolled in or are graduates of an associate degree program, or have completed two years of undergraduate course work (60 semester credits or 90 quarter credits), have a satisfactory achievement record, and wish to enroll in the Bachelor of Science in Management program, will be admitted with junior standing. Prerequisite subjects, if needed, may be scheduled with added time for completion of the degree.

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Bachelor of Science in Management Information Systems (MIS). The MIS curriculum provides a unique and sophisticated combination of business and management courses along with a substantial amount of computer information technology. The program is designed to prepare students to assume positions of responsibility and leadership in the computer-oriented, information and technology-based organizations of the future. Effective management of organizations always has been a key factor in maintaining and improving productivity, enhancing the quality of work life, and advancing technically-oriented products, services and information. Graduates are management-oriented and administratively skilled. They understand the methodology and tools of quantitative analysis, and the systems approach to the application of knowledge and decision making. This degree is of the utmost importance in the era of information technology and our graduates are prepared to lead business and industry in a global information and communication dominated economy. MSOE management information systems students are "power users" of computers and computer information technology.

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Graduate Programs

Master of Science in Engineering Management (MSEM). The MSEM is best described as a master's degree in the overall management of organizations with an orientation to manufacturing, engineering, technology or production. It provides a technical-based alternative to traditional MBA programs. Specialization areas include quality, organizational management, operations management, program management and marketing. Most students who pursue the MSEM work fulltime at area companies. Select MSEM courses are offered in the Fox Valley and Waukesha, and at company sites in the Milwaukee area. Most classes meet for three hours, once a week.

Accelerated MSEM. Course work is integrated into suites of courses. Each suite can be completed during one, eleven-week quarter. Upon completion nine graduate credits are awarded as well as a Certificate for that particular suite. The entire master's degree may be completed in just 24 months attending only one evening per week and every other Saturday.

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Master of Science in Medical Informatics (MSMI). Medical informatics combines medical science with information and computer sciences to improve patient care. The major goal of this program is to educate professionals who will develop, apply and manage information systems used by health care organizations to deliver more efficient and effective patient care. The medical informatics program is offered jointly with the Medical College of Wisconsin. Further details about this graduate program are available on the medical informatics Web page. The program is available on a full- or part-time study basis.

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