MASTER OF SCIENCE IN ENGINEERING MANAGEMENT

The Engineering Management program is taught by faculty with professional engineering management experience and offers engineers and other technical professionals the opportunity to develop technical management and entrepreneurial skills pertinent to the management of existing and emerging technologies. The program stresses the development of technological decision-making abilities while also enabling continued intellectual growth in an area that meets professional needs. Engineering Management program graduates have been assuming leadership roles in industry since the early 1970s.

PROGRAM GOALS

The goals of the Master of Science in Engineering Management program are to provide opportunities for:

- the development of technical management decision-making abilities;
- the acquisition of knowledge about the management of existing and emerging technologies;
- the development of technical professional employee management skills;
- the acquisition of knowledge of engineering cost, financial and economical analysis; and
- continued intellectual growth in a discipline-related area.

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

1. Satisfaction of all requirements for Graduate Admission to the University.
2. Approval by the department graduate coordinator/program academic lead.
3. For admission, a Bachelor of Science degree in an undergraduate engineering program with a 3.0 or higher overall grade point average is required. Applicants with an overall grade point average between 2.75 and 3.0 may be admitted if their grade point average in the last 60 units is at or above 3.0. Qualified applicants without a baccalaureate degree in an engineering field will be considered for admission on a case by case basis. Additional preparatory course work should be anticipated.
4. This admission requirement applies to applicants whose undergraduate (or other) institution does not report course grades in a letter format corresponding to a four point numerical scale (A = 4, B = 3, C = 2, D = 1, F = 0) equivalent to the grading system used at CSUN. Those individuals are required to submit the results of a third party official transcript evaluation as the report of their official transcript. The Manufacturing Systems Engineering & Management Department only recognizes evaluations from organizations who are members of the National Association of Credential Evaluation Services (NACES), which is an association of private educational credential evaluation services committed to formulating and maintaining ethical standards in the field of foreign educational evaluation. Visit the NACES home page www.naces.org to obtain a listing of member evaluation services. An example of an acceptable service would be World Education Services (WES) ICAP report, which includes course-by-course evaluations.
5. All three sections of the GRE have to be completed and the applicant’s score in both the quantitative section and the analytical writing section must be above the 50th percentile.
6. Foreign students must submit a minimum TOEFL score of 80 in the internet-based test (iBT) to demonstrate their proficiency in the English language.
7. The Department may request additional supporting materials to assess an applicant’s preparation and likelihood for academic success. In addition, the Department and the graduate admission committee reserve the right to reject any application.
Master of Science in Engineering Management

REQUIREMENTS FOR ADVANCEMENT TO CLASSIFIED STATUS

1. Satisfaction of University requirements for classified status.
2. Approval of program of study plan by assigned faculty advisor.
3. Approval by the Department Graduate Coordinator.

SPECIAL REQUIREMENTS

1. This program is intended primarily for students holding a B.S. in Engineering or other technical field. Prospective students who work in technical environments and hold degrees in non-technical fields should contact the Department in order to discuss additional prerequisite courses with a faculty advisor.

2. Students entering the program are expected to have completed Engineering Management (MSE 504) or equivalent. Admitted students who have not completed such a course as part of an undergraduate program may complete the course as part of their graduate degree program of study.

3. No more than 6 units of advisor-approved 400-level courses may be included in the Graduate Program of Study.

4. In order to enroll in the culminating experience (MSE 697), a student must be fully classified.

5. It is vital that the Upper Division Writing Proficiency Exam (UDWPE) be taken as soon as possible. Students must score 8 or above on the UDWPE before the end of their 2nd semester.

REQUIRED COURSES

1. Required Core Courses (15 units):
   - MSE 600 Decision Tools for Engineering Management (3)
   - MSE 602 Entrepreneurship & Innovation for Engineering Professionals (3)
     **Prerequisite: MSE 604 or equivalent**
   - MSE 604 Engineering Economy and Financial Analysis (3)
   - MSE 606A Production & Operations Management for Engineers (3)
     **Prerequisite: MSE 504 or equivalent**
   - MSE 617 Seminar in Quality Management (3)
     **Prerequisite: MSE 600 or equivalent**

2. Culminating Experience (3 units):
   - MSE 697MGT Engineering Management Directed Comprehensive Studies (3)*†

   *Graduate students must be fully classified and have finished at least 27 of the 30 units required for the program in order to take the culminating experience. **Students must satisfy the classification requirements and file a request classification with the graduate coordinator before the end of the 2nd semester in the program.**

   †MSE 697 must be taken in the very last semester. MSE 697 is only offered in the Fall and Spring semesters; it is not offered in the summer.

3. Electives (15 units):
   Elective courses are selected in consultation with a faculty advisor. At least 6 of the 15 units must be selected from approved courses in the department. No more than 6 of the 15 units may be at the 400-level. Frequently selected electives in Engineering Management include MSE 402, 407, 504, 505, 507, 601B, 606B, 608C, 617, 618 and 695SUS. Qualified students may also choose to take a research practicum course (MSE 692) as an elective. Discipline electives in Automation and CAD/CAM, Computer Science, Electrical Engineering, Manufacturing Systems, Materials Engineering, Mechanical Engineering, Structural Engineering and business (pending approval of the graduate coordinator) are also appropriate.

Disclaimer:
The Required Core Courses for the Master’s in Engineering Management have changed. These changes made to the curriculum have taken effect as of the Fall 2015 semester. Students that matriculated into the program before Fall 2015 may follow the program specified in the 2014-2015 catalog year.

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