



American Society for Engineering Management Engineering Management Masters Program Certification Academic Standards

A. Faculty

1. There will be at least one full time EM faculty member responsible for the program.
2. Full time faculty members will teach one-third or more of the courses. State how many of these are faculty members are designated Engineering Management.
3. The faculty workload must be reasonable and appropriate for the stated mission of the program.

B. Curriculum Requirements

1. A balance between qualitative and quantitative courses
2. At least one third of the curriculum will be management and management related courses.
3. Courses designated "Engineering Management" are in the academic catalog.
4. Course material must be directly related to technology driven organizations.
5. The curriculum must require each student to demonstrate a command of written and oral communication skills in English.
6. Courses must relate to knowledge workers in a global environment.
7. Each student is required to perform a capstone project or thesis using analysis and integration of Engineering Management concepts.
8. A minimum of one course in probability and statistics
9. A minimum of one course in engineering economy
10. Two courses in quantitative analysis courses are required.

C. Students - Admission Requirements

1. Two years of engineering experience in a company
Or Current full time employment as an engineer.
2. For unqualified admission, a 3.0 grade point average from an ABET accredited undergraduate program or equivalent accreditation in the country where there EM program is offered.
3. Other students may be admitted provisionally with an appropriate mathematical background equivalent to two years of calculus.
4. Administration - Students must have access to an academic advisor for the purpose of planning a program of study that meets both degree and the student's professional requirements.

5. Support - The student must have access to appropriate literature. This usually means access to a library with a collection of books and periodicals appropriate to engineering management theory and practices.

D. Administrative Support

The program must have access to sufficient resources and facilities to meet the needs of the targeted student population. Resources generated by the program are sufficiently reinvested in the program.

Certification Process

The Certification Visit

The Certification College of ASEM will select an evaluation team for each program making application to be certificated.

The team makeup will be discussed with the chair of the applying program. Adjustments in committee makeup will be made as necessary.

Upto Three evaluators will be selected to make the visit.

They will use the criteria adopted by ASEM in making the assessment.

Certification Results

- Programs found to be in conformance to the criteria will receive a four-year certification.
- Those programs with minor infractions that may be corrected within a short period of time – one academic year for example will receive a two-year certification. If necessary, a follow-up visit may be required to assess the value of changes made. The follow-up visit will be made by one visitor.
- Submission of evidence of appropriate correction will result in a four – year certification from the date of the initial visit.
- Meritorious programs that do not conform to all Engineering Management certification requirements may be certified as an alternative program. Management of Technology programs are evaluated according to standards that have minor differences for those used to evaluate EM programs.
- Alternative Program Certification is for programs (such as Management of Technology Programs) that have a well-designed curricula, that have a specified and limited mission and that meet most of the EM certification requirements.
- All certified programs will be listed in the EMJ annually.

Program Certification Costs

Fees

Each visit will cost \$2,500 plus the cost of the team travel. Follow-up visits will be \$1,500.

The institution seeking certification will cover travel expenses of visitors in both initial and follow-up visits.