



Engineering Management

College of Science, Engineering and Mathematics
Department of Civil and Environmental Engineering
(907) 474-6121

www.uaf.edu/civileng/cee.html

Degree: M.S.

Minimum Requirements for Degree: 30 credits

The engineering management program is designed for graduate engineers who will hold executive or managerial positions in engineering, construction, industrial or governmental organizations. The program includes human relations, financial, economic, quantitative, technical and legal subjects useful in solving problems of management.

The program includes graduate-level core courses and coursework directed either toward arctic engineering or a more general field in engineering. Coursework includes projects or research in the application of management principles.

See Arctic Engineering.

See Civil Engineering.

See Engineering for Ph.D. program.

See Science Management.

See Environmental Engineering and Environmental Quality Science.

GRADUATE PROGRAM

Engineering Management—M.S. Degree

1. Complete the following admission requirements and recommendations:
 - a. Complete a bachelor's degree in an engineering discipline.
 - b. On-the-job experience in engineering is recommended.
2. Complete the general university requirements (page 43).
3. Complete the master's degree requirements (page 46).
4. Demonstrate competence in computer programming by passing a programming course or a qualifying examination.
5. Present project reports which provide comprehensive analysis and propose solutions to a situation in an engineering or scientific management setting. Pass an oral comprehensive examination.
6. Complete the following:

ESM 601—Engineers in Organizations	3
ESM 609—Project Management	3
Technical electives in the student's specialty	9
ESM 684—Engineering/Science Management Project	3
7. Complete 1 of the following:

BA 607—Human Resources Management*	3
ESM 608—Legal Principles for Engineering Management	3
8. Complete the following:

ESM 620—Statistics for ESM	3
ESM 621—Operations Research	3
9. Complete the following:

ESM 605—Engineering Economy	3
ACCT 602—Accounting for Managers*	3
10. Minimum credits required

30

* School of Management courses can be applied to no more than 12 credits of the ESM program.

Note: Substitutes for courses are permitted if similar courses are included in the student's previous academic background. Both substitutes and transfer of credit (maximum 9 credits) must be approved by the department.



University of Alaska Fairbanks

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