ENGINEERING MANAGEMENT

College of Engineering and Mines Department of Civil and Environmental Engineering 907-474-7241 www.uaf.edu/esm/

M.S. Degree

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.

Graduate Program — M.S. Degree

- 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 198).
- 3. Complete the master's degree requirements (page 202).
- 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.
- 5. Complete courses from the four main engineering management subject areas as follows:
- a. Human Element (two courses required) ESM F601—Managing and Leading Engineering Organizations......3 BA F607—Human Resources Management......3 b. Project Management (two courses required) ESM F609—Project Management (3) or ESM F608—Legal Principles for Engineering Management (3) or CE F620—Civil Engineering Construction (3)6 c. Quantitative Methods (one course required) ESM F622—Engineering Decisions (3) or ESM F620—Statistics for ESM (3) d. Financial (two courses required) ESM F605—Engineering Economic Analysis*......3 6. Complete the following: ESM F684—Engineering/Science Management Project3 Minimum credits required......30 May be waived with prior undergraduate engineering economics course.
- the student's graduate advisory committee.
 - See Arctic Engineering. See Civil Engineering.
 - See Engineering for Ph.D. program.
 - See Environmental Engineering and Environmental Quality Science.

Note: Balance of credits may be managerial or technical electives as approved by

See Science Management.

