## **Engineering Management**

College of Engineering and Mines Department of Civil and Environmental Engineering (907) 474-6121 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 182).
- Complete the master's degree requirements (page 186).
- 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:
- b. Project Management (two courses required) ESM 609—Project Management (3)
- c. Quantitative Methods (one course required)
  - ESM 622—Engineering Decisions (3)
    - or ESM 620—Statistics for ESM (3)
    - or ESM 621—Operations Research (3)......3

- 7. Minimum credits required ......30
  - \* May be waived with prior undergraduate engineering economics course. Note: Balance of credits may be managerial or technical electives as approved by the student's graduate advisory committee.
  - See Arctic Engineering.
  - See Civil Engineering.
  - See Engineering for Ph.D. program.
  - See Science Management.
  - See Environmental Engineering and Environmental Quality Science.

