## 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

- 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 202).
- 3. Complete the master's degree requirements (page 206).
- 4. 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.	subject areas as follows:
a.	Human Element (two courses required) ESM F601—Managing and Leading Engineering Organizations
b	<ul> <li>Project Management (two courses required)</li> <li>ESM F609—Project Management (3)</li> <li>or ESM F608—Legal Principles for Engineering Management (3)</li> <li>or CE F620—Civil Engineering Construction (3)</li></ul>
c.	Quantitative Methods (one course required) ESM F622—Engineering Decisions (3) or ESM F620—Statistics for ESM (3) or ESM F621—Operations Research (3)
d	. Financial (two courses required) ACCT F602—Accounting for Managers
6.	Complete the following: ESM F684—Engineering/Science Management Project
	<ul> <li>Minimum credits required</li></ul>

UNIVERSITY OF ALASKA FAIRBANKS

