Science Management

College of Science, Engineering and Mathematics Department of Civil and Environmental Engineering (907) 474-6121 www.uaf.edu/esm/

M.S. Degree

Minimum Requirements for Degree: 30 credits

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

Graduate Program—M.S. Degree

- 1. Complete the following admission requirements:
- a. Complete a bachelor's degree in a scientific field.
- b. On-the-job professional experience is recommended.
- 2. Complete the general university requirements (page 166).
- 3. Complete the master's degree requirements (page 170).
- 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.

a.	Complete courses from the four main engieneering management subject areas as follows: Human Element (2 courses required) ESM 601—Engineers in Organizations
	BA 607—Human Resources Management
D.	ESM 609—Project Management (3)
	ESM 608—Legal Principles for Engineering Management (3) CE 620—Civil Engineering Construction (3)
c.	Quantitative Methods (1 course required)
	ESM 622—Engineering Decisions (3) or ESM 620—Statistics for ESM (3)
d	or ESM 621—Operations Research (3)
	ACCT 602—Accounting for Managers
	Complete the following: ESM 684—Engineering/Science Management Project
	Minimum credits required
	Note: Balance of credits may be managerial or technical electives as approved by the student's graduate advisory committee.
	* May be waived with prior undergraduate engineering economics course. See Arctic Engineering.
	See Civil Engineering for Ph.D. program.
	See Engineering for Ph.D. program. See Engineering Management.
	See Environmental Engineering and Environmental Quality Science.

Note: Page numbers refer to the UAF 2004-2005 academic catalog, which can be viewed online at www.uaf.edu/catalog/.



