

## ELECTIVES

The 6 hours of electives will be filled by two graduate courses at New Mexico Tech. Within the Management Department, sequences in financial modeling and technology management will be offered. Students will select elective sequences in consultations with faculty advisors, and any approved graduate sequence at Tech is available to program participants.

## DELIVERY

Our goal is to provide the highest quality education experience possible for our on-campus and remote location program participants. The program will be offered in Socorro and via distance education technologies in various parts of New Mexico. Our goal for the first year is live, interactive Webcasts to our participants at remote locations, with recorded lectures available via a variety of media. The internet will be used for assignments and other interactions with Tech faculty. We anticipate that at least one “live” class session will be held at each remote location per class per semester. As of now, we are planning on weekly class sessions, with live course delivery on Friday mornings and afternoons. We are also considering delivery on Saturday mornings.



## OUTCOMES

We hope that participants completing the MEM program at New Mexico Tech will realize the following outcomes:

- Knowledge that will enable both increased job performance and increased professional opportunities
- A classmate-based network of professional associates.
- A stimulating graduate experience
- A broadening of their view of engineering and of the larger role of engineering and engineers in the modern economy.

If you have any questions or comments about this program, please contact:

**Dr. Peter Anselmo**

at

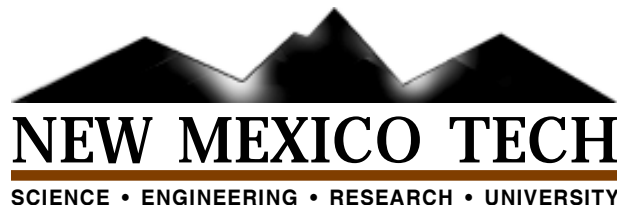
[anselmo@nmt.edu](mailto:anselmo@nmt.edu)

or

<http://management.nmt.edu>

or call:

**(505)-835-5440**



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**ENGINEERING  
MANAGEMENT**

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*Proposed Graduate Program*

## PROGRAM OBJECTIVE

This program is designed to provide select groups of working engineers (and a smaller group of on-campus graduate students) with a one-year terminal Masters degree in Engineering Management (MEM). The curriculum is designed to be innovative and initially deliverable to underserved areas of New Mexico – primarily the Northwest and Southeast areas of the State – via electronic media.

*Our program objectives are:*

- Provision of a quality, career enhancing educational experience for working engineers in New Mexico
- Enhancing the interactions between New Mexico Tech and the technological private and public sectors in New Mexico
- Enhancing economic development in New Mexico by providing graduate education and training opportunities via distance education

## PROGRAM

The program consists of 21 core hours, 6 elective hours, and a 3-hour project for a total of 30 hours leading to a terminal MEM degree – Master of Engineering Management.

## CORE

The purpose of the core is provision of foundations in quantitative and qualitative methods that will assist the practicing (or aspiring-to-practice) engineer in a changing technological and economic environment.



### Management Science for Engineering Management

This course will expose participants to up-to-date Management Science applications in engineering and technology organizations.

### Financial Management

Participants will be first exposed to the interaction between accounting and financial systems. This will be followed by discussion of the latest in corporate financial management and capital budgeting techniques.

### Information Systems in Technology Organizations

Databases and the interaction between database information systems and organizational decision processes. Data mining and other topics relevant to data and technology-intensive organizations.



### Statistics for Technology Managers

Experimental design, probability review, univariate and multivariate regression using least squares and other methods, other topics including nonlinear regression and using statistical data for decision making.

### Marketing Technology

Design, development, marketing, and sustaining of new products and technologies both inside and outside the engineering and technology organization. Market research, sampling and other data collection issues.



### Managing Technology Resources

The study of human and other resources within technology and engineering organizations. Negotiation, leadership, resource allocation and other critical management topics will be discussed in this seminar.

### Organizational Entrepreneurship (Capstone)

This seminar is devoted to assessing the role of the engineering/technology executive in a changing technology, economic, and political environment. Topics and speakers may vary.