

MASTER OF SCIENCE Engineering Management

2011-2012

Student's Name _____

Entrance Date _____

B.A. or B.S. in _____

From _____

PREREQUISITES TO THE MSEM DEGREE 12

(Completed at undergraduate level or taken concurrently with MSEM courses)

___	NSET	101	Introduction to the Natural Sciences and Engineering Technology (or equivalent)	3
___	CMPS	___	_____	3
___	MATH	175	Elementary Statistics	3
___	MATH	230	Linear Algebra I OR	3
___	MATH	310	Differential Equations	

REQUIREMENTS 24

___	MSEM	500	Managing Engineers, Scientists and Technological Professionals	3
___	MSEM	505	Economic Analysis in Engineering Planning	3
___	MSEM	510	Organizational Behavior	3
___	MSEM	520	Contract Law and the Engineering Enterprise	3
___	MSEM	525	Engineering Project Mgmt.	3
___	MSEM	530	Engineering Analysis I	3
___	MSEM	540	Seminar in Contemporary Issues in Engineering Management	3
___	MSEM	545	Project in Engineering Mgmt.	3

ELECTIVES 6

___	___	___	_____	3
___	___	___	_____	3

Program Objectives

MASTER OF SCIENCE IN Engineering Management

Upon successful completion of this program, a student will be able to:

1. Recognize management issues that impact technology-based firms.
2. Be able to optimize the allocation of resources across multiple projects.
3. Gain the skills needed to evaluate, implement and operate engineering projects.
4. Deal with the complex technical, ethical and legal issues facing the engineering industry.
5. Gain the skills needed to optimize the use of financial principles in decision-making.
6. Achieve expertise in engineering projects through an in-depth study of such projects.