

Integrated Technology and Management Capstone Project (Required for Technology and Management Program)

ME / Mgt 4742

Catalog Description: Tech & Mgt Capstone Project
Prerequisites: 1 year in Technology and Management Program and successful completion of Pre-Capstone course
This is the capstone course for students in the T&M program, designed to allow the students to demonstrate their inter-disciplinary skills and their ability to work in teams with fellow students from other majors to solve real business problems.

Textbook: None

Topics Covered:

1. Interdisciplinary project
2. Satisfying client expectations
3. Report and presentation skills

Course Outcomes:

Outcome 1. To provide students the opportunity to formulate and provide solutions for open ended inter-disciplinary problems, including problem definition, analysis, and deliverables.

Outcome 2. To provide students with the opportunity to develop their writing and presentation skills needed to communicate their project findings and recommendations.

Outcome 3. To enable students to gain experience working in multi-disciplinary teams and utilize the skills learned throughout the Technology and Management program.

Contribution of course to meeting the requirements of Criterion 5.

T&M Capstone												
	Mechanical Engineering Program Educational Outcomes											
Course Outcomes	a	b	c	d	e	f	g	h	i	j	k	l
Course Outcome 1	X	X	X	X	X	X				X	X	
Course Outcome 2	X		X	X	X	X	X			X	X	
Course Outcome 3	X		X	X	X	X				X	X	

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Course Requirements: Successful completion of a capstone project

Capstone Project Description:

Teams of 3 – 6 students typically work on the project for around 10 – 20 hours per week for a full semester. The teams are made up of a combination of engineering and management students. Projects are offered by the corporate affiliates of the Technology and Management Program and defined and scoped in the summer and fall before the class. Introductory readings and discussions to familiarize the students with the topics addressed in the projects will take place in the Pre-Capstone course during the Fall semester. During the course of the project, students may visit the corporate affiliates or meet with the executive sponsor on campus. Regular conference calls and other communications are expected between the student team and the assigned corporate sponsor.

Course Grading Policy:

<u>Grading Criteria</u>	
<u>Item</u>	<u>Value</u>
Project Introduction Presentation	10%
Midpoint Project Presentation	20%
Final Project Presentation	40%
Attendance	30%