



# Engineering and Technology Management

## COURSE SYLLABUS

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**Course Number:** EM 596

**Course Name:** Resourceful Leadership: An Introduction

**Instructor:** Hal Calbom

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**Semester Credits:** 3

**Prerequisites:** None

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### **Course Description and Objectives:**

Successful engineers require more than technical skills. They are called upon to lead teams, communicate aspirations and results, facilitate problem solving spanning different disciplines, and manage complex processes. Today's Engineering and Technology Management requires resourcefulness: the ability to work with large amounts of data and information, to facilitate multi-disciplinary teams across organizations, and to effectively manage time, people, and financial resources.

**Resourceful Leadership: An Introduction** pushes students beyond the conventional boundaries of engineering and scientific inquiry: problem solving, critical thinking, engagement with others, personal and team development. Students will engage interactively: exploring case studies derived from contemporary business practice, developing techniques and practical capabilities, discussing and critiquing real-world exercises and demonstrations. There will be a strong emphasis on class interaction and participation.

### **Course Topics:**

- Introducing Resourceful Leadership
- Business Case: the 21st Century Engineer
- Building Collaboration and Effective Teams
- Relationship Marketing and Selling
- Managing People and Projects
- Technical Presentation Basics
- Media and Web-based Communications
- Making Impactful Presentations
- Meaningful Meetings
- Business Writing Basics
- Positive Assertiveness and Conflict Management
- Mastering Stress and Cognitive Overload
- Productive Time Management and Prioritizing
- Managing Information Technology
- Team Problem Solving and Critical Thinking
- Business and Financial Literacy
- Quality and Sustainable Improvement
- Supervision and Performance Management
- Cross Cultural Competency
- Professionalism and Social Intelligence
- Lifelong Learning and Cognitive Diversity

### **Grading:**

Mid-Term Exam: 25%, Final Exam: 25%, Course Projects: 30%, Participation & Homework: 20%