**TCMT - TECHNICAL MANAGEMENT**

**TCMT 610 Engineering Personal Leadership**  
Credits 2. 2 Lecture Hours.  
Development of cognitive, emotional, behavioral capabilities; identification and exploration of Emotional Intelligence (EQ) competencies; focuses on both the art and science of emotional EQ.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.

**TCMT 612 Technical Management Decision Making**  
Credits 3. 3 Lecture Hours.  
Key business concepts, practical processes and analytical tools to make value-driven decisions; focuses on linkage between managerial decisions and the performance of business enterprises; introduction to business strategy, financial principles, organization processes and people skills managers must weigh when making executable judgement calls; analytical tools to evaluate decisions and communicate desired outcomes with different professionals; use of business cases and real-world projects to help master practical knowledge and apply immediately.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.

**TCMT 613 Technical Project Management**  
Credits 3. 3 Lecture Hours.  
Introduction to project management; emphasis on technical skills needed to manage complex projects and soft skills needed to communicate and manage the project team within a corporate structure.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.

**TCMT 619 Personal Leadership Coaching**  
Credit 1. 1 Lecture Hour.  
Engage in experiential learning, work one-on-one with a professional coach and develop a comprehensive leadership development plan based on the findings and insights from individual EQ-i 2.0 assessment report; series of interactive and reflective one-on-one sessions to understand personal emotional competencies and identify areas of improvement.  
**Prerequisites:** TCMT 610.

**TCMT 623 Financial Decision Making**  
Credits 3. 3 Lecture Hours.  
Addresses application of financial concepts in engineering decision making; exploration of analysis of labor and material expenses, accounting methods and forecasting; combines scenario discussions, reflections, group exercises, and practical application learning.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.

**TCMT 624 Managing Technical Teams**  
Credits 3. 3 Lecture Hours.  
Offers background, tools and basic understanding into the skills, traits, expectations and interactions of a manager or leader of a technical or professional team; compilation of tacit knowledge; focuses on eight key elements central and fundamental to successful technical leadership and management; introduction to a series of case examples or scenarios and appropriate readings and discussions to support concepts.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.

**TCMT 631 Capstone I**  
Credits 3. 3 Lecture Hours.  
Addresses managing individual or collaborative engineering programs in complex dynamic business environments; provides tools and techniques to execute projects, programs and product enhancement initiatives that yield desired business results; learn through deductive, inductive and abductive analytical methods how to document and manage engineering program activities.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.

**TCMT 634 Value Chain Management**  
Credits 3. 3 Lecture Hours.  
Selected topics for the quantitative management an optimal operation of a supply-chain; emphasis on the interdependencies among supply-chain processes, integration of engineering, operational and financial metrics, supply-chain capability and asset management.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.

**TCMT 639 Team Leadership Coaching**  
Credit 1. 1 Lecture Hour.  
Develop individual emotional intelligence and lead emotionally intelligent teams; deliver and receive feedback from team members on how to develop individual emotional intelligence in a team context and support behaviors for building trust, team identity and team efficacy.  
**Prerequisites:** TCMT 610; TCMT 619; admission to the Master of Engineering Technical Management program.

**TCMT 641 Capstone II**  
Credits 3. 3 Lecture Hours.  
Research project for firm or the Global Supply Chain Laboratory under the guidance of the instructor, other faculty and researchers in the lab; development of a problem statement, proposal, mid-term update, final report, and presentation for management.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.

**TCMT 643 Contract and Risk Management**  
Credits 3. 3 Lecture Hours.  
Basic legal issues and terms commonly encountered by engineering businesses of all sizes; greater overall understanding of the company itself and allow technical professionals to more knowledgeably, efficiently and effectively lead their business; overview of relevant legal aspects of managing an engineering company with emphasis on contracts and intellectual property management; understanding of contract terms and clauses; identification and mitigation of areas of potential legal liability through contract negotiation; how to mange and commercialize intellectual property.  
**Prerequisite:** Admission to the Master of Engineering Technical Management program.
TCMT 689 Special Topics In...
Credits 1 to 4. 1 to 4 Other Hours.
Selected topics in an identified area of engineering technical management. May be repeated for credit. 
Prerequisite: Admission to the Master of Engineering Technical Management program.