

## LEVENE MBA Program – Engineering Management (effective Fall 2013)

PROGRAM REQUIREMENTS			
	SEMESTER	CREDIT HRS	GRADE
MBA 815		3	
MBA 830		3	
MBA 860		3	
MBA 880		3	
<b>Choose 4 of the following:</b>			
MBA/GBUS 816		3	
MBA/GBUS 865 or ENGG 819		3	
ENGG 820		3	
ENGG 821		3	
ENGG 822			
MBA 899*		6	
MBA 848**		3	

\*Required: MBA 899 Integrative Practicum (6 credits)

\*\*Required: MBA 848 AA-ZZ International Study Tour (3 credits)

### REQUIRED MBA Course Descriptions:

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**MBA 815 - Business Policy and Strategy (3)** The course focuses on the identification, evaluation and formulation of organizational strategy in an international context. Special emphasis is placed on inherent tensions faced by global organizations in developing and implementing strategy, such as the effects of cultural, economic and political differences on standardization versus adaptation and the identification of global niches, through the use of lectures, discussion, student analysis, and case studies of various kinds of organizations.

**MBA 830 - Social Issues in Business (3)** This course provides an examination of problems in business management related to society at large. It includes a multidisciplinary application of knowledge, concepts, and analytical tools to apply to contemporary issues challenging business executives, including the role of consultation with local communities, sustainable business practices in developing economies, and evolving global standards of corporate social responsibility and ethics.

**MBA 860 - Managing Change (3)** This course provides students with an awareness and understanding of how organizations assess situations and plan, implement, communicate and maintain change. The course also provides an understanding of how cultural differences, including attitudes toward employee empowerment and employee-initiated change, affect the development and implementation of change processes. The objective of the course is to develop change-agent skills in the management ranks.

**MBA 880 - Managing Information, Analytics, and Decision-making (3)** The course provides students with knowledge and skills necessary to effectively utilize complex, ambiguous information to solve complex problems within time-constrained environments. In the course

students will examine business issues associated with strategic information management, including knowledge duration, business and competitive analysis and business analytics.

### **ELECTIVE Course Requirements:**

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**ENGG 819 A Systems Engineering Approach to Project Management (3)** The course covers the fundamentals of project management, nine knowledge areas, five process groups and forty-four processes. It takes a systems approach to managing engineering projects. Students will be exposed to concepts relevant to current industrial practices that adhere to global standard and the PMI project management body of knowledge.

**ENGG 820 Economics for Practicing Engineers (3)** This course explores the cost analysis that accompanies large engineering projects. Analysis of the engineering system and value planning is covered. Additional topics include capital and operating cost estimation, discounting, comparative costing, and capital recovery.

**ENGG 821 Business Law for Practicing Engineers (3)** Canadian law in the engineering profession is discussed with a focus on legal procurement, contracts, and intellectual property. Case studies explore permitting, licensing, regulatory systems, environmental impact assessment, and liability. The professional Code of Ethics are reviewed and emphasized.

**ENGG 822 Risk Assessment and Management (3)** Strategies for minimizing exposure to technical, financial, and geopolitical risk are presented. Recent case studies from industry are discussed. Topics include event tree and fault tree analysis, risk-based decision-making, and decision consideration.

**MBA 816 Production and Operations Management (3)** This course provides an introduction to the concepts, processes and problems associated with the production and operations management (POM) function which is primarily concerned with productivity and techniques for solving business problems. Particular emphasis will be placed on value stream analysis and its implications for international supply chain management.

**MBA 865 (GBUS 865) Project Management (3)** This course will introduce students to the many phases of a project's life cycle and how to address them through knowledge and understanding of Project Management principles and how to manage them effectively using Project Management techniques by monitoring and maintaining control of scope, time, and costs within a project.