

## MANAGEMENT OF TECHNOLOGY AND INNOVATION

### CURRICULUM

#### Master of Management Science

<b>DEGREE REQUIREMENTS</b>		<b>Credits</b>
Master's Thesis		(Milestone)
MT8000	Research Seminar	pass/fail
MT8103	Applied Research Methods I	1
MT8104	Applied Research Methods II	1
MT8219	Theories of Tech and Orgs	1
Three credits from any Specialization or Elective list		3

#### Master of Business Administration

<b>DEGREE REQUIREMENTS</b>		<b>Credits</b>
MT8108	Ethics and Corp Soc Resp	1
MT8212	Innovation and Org Theory	1
MT8213	Technology and Org Strategy	1
MT8214	Managing in a Diverse World	1
MT8215	Finance and Tech Valuation	1
MT8216	Global Markets and Tech Trends	1
MT8600	Rsrch and Commun for Mgrs	1
Three credits from any Specialization or Elective list		3
AND one of the following Options:		
MT8900	Master's Thesis	3
MT8902	Master's Res Proj/Internship	3
MT8903	International Exchange	3

### **SPECIALIZATIONS**

<b>Information Systems Management</b>		<b>Credits</b>
MT8304	Governance of IT	.5
MT8305	Network Management I	.5
MT8306	Network Management II	.5
MT8307	Strategic Risk Management	.5
MT8308	Systems Analysis and Design I	.5
MT8309	Systems Analysis and Design II	.5
MT8310	Special Topics Info Sys Mgmt	1
MT8311	Adv Tech Integ and Proc Design	1
MT8312	Collaboration and Decision Tech	1
MT8313	Data and Knowledge Management	1
MT8314	Human Factors in Tech Design	1
MT8315	Dir Readings Info Sys Mgmt I	1
MT8316	Dir Readings Info Sys Mgmt II	.5

<b>Media Management</b>		<b>Credits</b>
MT8403	Compet Strategy for Media I	.5
MT8406	Managing Creativity in Orgs	.5
MT8408	Adv Media, Communication Tech	1
MT8409	Lgl/Policy Issues in Media Ind	1

MT8410	Compet Strategy Media Ind II	.5
MT8411	Media, Consumers and Markets	1
MT8412	Core Issue: Media Management	1
MT8413	Media Entrepreneurship	.5
MT8414	Dir Readings Media Mgmt I	1
MT8415	Dir Readings Media Mgmt II	.5
MT8416	Special Topics Media Mgmt	1

**Supply Chain Management**

**Credits**

MT8509	Special Topics Supp Chain Mgmt	1
MT8510	Adv Supply Chain Mgt Practices	1
MT8511	Op Mgmt, Process Improvement	1
MT8512	Logistics and Inventory Mgmt	1
MT8513	Intro Operations Research	1
MT8514	Dir Readings Supp Chn Mgmt I	1
MT8515	Dir Readings Supp Chn Mgmt II	.5
MT8522	Public Sect Supply Chain Mgmt	1

**GENERAL ELECTIVES**

**Credits**

MT8103	Applied Research Methods I	1
MT8104	Applied Research Methods II	1
MT8212	Innovation and Org Theory	1
MT8213	Technology and Org Strategy	1
MT8214	Managing in a Diverse World	1
MT8215	Finance, Technology Valuation	1
MT8216	Global Markets and Tech Trends	1
MT8220	Advanced Project Management	1
MT8317	Information Architec Theory	1
MT8318	Wireless, Mobile Communication	1
MT8321	Personal Data Privacy	1
MT8322	Data Warehousing Methods	1
MT8323	Customer Relations Mgmt IT	1
MT8324	Info Sys Security and Control	1
MT8326	Adv Re-engineering Methods	1
MT8417	TV Distribution	1
MT8418	Legal Bus Aspects of Media	1
MT8419	Economics of Media	1
MT8420	Legal Issues in Media	1
MT8421	Media Business Studies	1
MT8422	Advertising in Elec Media	1
MT8423	TV Marketing Promotion	1
MT8424	Production Management	1
MT8425	Digital Media in Practice	1
MT8516	Procurement, Supply Chain Mgmt	1
MT8517	Principles of Transportation	1
MT8518	Studies Global Supply Chn Mgmt	1
MT8519	Logistics Management I	1
MT8520	Logistics and Transport Mgmt	1
MT8521	Operations Management	1
MT8802	Strategic Tech Portfolio Mgmt	.5

MT8803	Leadership in a PMO Context	.5
MT8807	Managing Knowledge and IP	1
MT8808	Consulting Skills	1
MT8809	Venture Financing and Planning	1
MT8810	Prod Devel, Commercialization	1
MT8901	Directed Readings	1

## **COURSE LISTING**

### **MT8000 Research Seminar**

Pass/Fail

### **MT8103 Applied Research Methods I**

Students are introduced to quantitative and qualitative research techniques, with particular emphasis on their application to the management of technology, to technology forecasting and technology implementation. Concepts and models for technological forecasting and competitive intelligence are also introduced. Antirequisite MT8101, MT8102. 1 Credit

### **MT8104 Applied Research Methods II**

This course is a continuation of MT8103. In this course, students will refine their research question, develop expertise in the specific methodology to be used for their thesis research, and will develop a research proposal. 1 Credit

### **MT8108 Ethics and Corp Soc Resp**

This module addresses the social, legal and ethical issues of innovation and technology deployment. Specific topics will include the development of business practices that meet business objectives and the ethical and social requirements of organizational stakeholders, socially responsible innovation, and the relationship between technology and social values. Case studies and debates will be used extensively to illustrate core concepts and ethical dilemmas. Antirequisite MT8204, MT8217, MB8108. 1 Credit

### **MT8212 Innovation and Org Theory**

This course prepares students to manage in turbulent, high technology environments. Students are introduced to theories of innovation, and learn how various ways of organizing and managing people and work can foster or stifle innovation. Students will apply models of innovation and diffusion to analyze industry trends and identify and assess strategic options for individual firms operating in environments of rapid technological change. Antirequisites MT8201 and MT8203. 1 Credit

### **MT8213 Technology and Org Strategy**

This course examines how strategic leaders transform and position their organizations to exploit technological change for competitive advantage. It provides an understanding of the issues surrounding the formulation and implementation of technology-based strategies, and explores frameworks for managing in a technology-based economy. Antirequisite MT8202. 1 Credit

### **MT8214 Managing in a Diverse World**

This course develops competencies in managing a global workforce. Specific topics include the behavioural impact of cultural differences, alternative approaches to organizational structure, cross cultural communication challenges, management of diverse groups, leadership and employee motivation techniques for global managers, and conflict resolution across cultures. Students will assess their own managerial and leadership competencies and develop a personal plan for skill development. Antirequisite MT8106. 1 Credit

### **MT8215 Finance and Tech Valuation**

Students learn how to interpret financial information to inform managerial decisions within the organization. The course covers concepts related to technology valuation, building business cases, and examining R&D productivity. Particular attention will be focused on risk management, and the course will use current cases as a basis for discussion. Antirequisite MT8207. 1 Credit

### **MT8216 Global Markets and Tech Trends**

This course explores emerging issues (technologies, trends, geopolitical policies etc.) with an emphasis on their potential impact on global enterprise practices. The course also focuses on developing planning models to incorporate environmental scanning and technology forecasting as components of effective strategic planning models. Antirequisite MT8211. 1 Credit

### **MT8219 Theories of Technology and Organizations**

This course will offer graduate students the opportunity to read, under the guidance of senior research faculty, seminal research in the field of information systems. The expectation is that students will find this course an effective vehicle to develop broad and deep knowledge of their field of study upon which they can develop a research program and thesis. 1 Credit

### **MT8220 Advanced Project Management**

The course comprises a tour through the non-financial management functions. It begins with an outline of the history of management thought, an approach that frames the successive topics. It is followed by a unit on business law and corporate governance, which explains the roles and responsibilities of managers and executives. The organizational behaviour/human

resource section highlights principles of social psychology as they relate to how people interact in organizations, and small groups. The section on operations and management information systems shows how organizations use technologies. The quality unit shows how it is fostered in manufacturing and services. The marketing module introduces the first principles of this function. There is also a lecture introducing the unique aspects of entrepreneurship and small business. Antirequisite: MT8205, MT8206. 1 Credit

#### **MT8304 Governance of IT**

This module examines the role of IT governance (CIO, CKO, CTO) in achieving organizational objectives. It explores the responsibilities of senior IT managers, and examines how senior level managerial decision making enables alignment of business and IT strategic goals. The importance of IT governance in monitoring performance and accountability is also considered. 0.5 Credit

#### **MT8305 Network Management I**

Module 1 develops the managerial level of technical knowledge and terminology for data, voice, image, and video communications and computer networks necessary to effectively communicate with technical, operational and management people in telecommunications. Module 2 focuses on the application of data communications concepts to situations encountered in industry, with emphasis given to understanding how the organizational context shapes network requirements. 0.5 Credit

#### **MT8306 Network Management II**

A continuation of MT8305, which is a prerequisite. 0.5 Credit

#### **MT8307 Strategic Risk Management**

The module focuses on identifying and understanding general technology risks within organizations. Risk management processes are outlined. Through case discussions, students determine specific approaches to managing strategic and organizational risks. They also consider security related risk identification and risk management. 0.5 Credit

#### **MT8308 Systems Analysis and Design I**

These modules instruct students in the principles of systems analysis and design. Topics include the systems development life cycle; analysis and design techniques; information systems planning and project identification and selection, requirements collection and structuring, process modeling, data modeling, design of interface and data management, system implementation and operation, system maintenance, and change management implications of systems. Students will apply current methods and tools (e.g. rapid application development, prototyping, and visual development) to develop real solutions to support or improve organizational processes. 0.5 Credit

#### **MT8309 Systems Analysis and Design II**

A continuation of MT8308, which is a prerequisite. 0.5 Credit

#### **MT8310 Special Topics Info Sys Mgmt**

Special topics courses in Information Systems Management may be offered in response to students' needs and interests. 1 Credit

#### **MT8311 Adv Tech Integ and Proc Design**

This course allows students to further develop their technological competence, with a focus on understanding the key technologies widely adopted across enterprises and beyond. The course develops an understanding of business process design, and adopts a problem-based approach to enable students to comprehend, and respond to, the challenges that arise in integrating multiple technologies within the enterprise and across inter-organizational networks. Antirequisite MT8210. 1 Credit

#### **MT8312 Collaboration and Decision Tech**

This course provides an overview of the development and usage of decision support systems (DSS), data mining and collaboration technologies. Students will learn how database technologies support managerial decision making, and will understand the role of the data warehouse in supporting DSS and data mining applications. Antirequisite MT8301. 1 Credit

#### **MT8313 Data and Knowledge Mgmt**

This course covers the basic principles and practices of knowledge management, the technology to support knowledge sharing and the issues in designing and implementing a value-based knowledge management system in an organization. Topics include: understanding today's knowledge economy and knowledge workers; enabling knowledge creation; knowledge maintenance: accuracy, currency, accessibility; developing a knowledge management strategy; information policies, measuring value, change management and human factors in implementing a knowledge management system. Antirequisites MT8302, MT8303. 1 Credit

#### **MT8314 Human Factors in Tech Design**

User-centred theory and approaches to understanding and designing technologies will be introduced. Emphasis will be placed on the effective application of these approaches in a development and management of technology context to suit all users including those with disabilities. Students must apply the theoretical constructs to a practical design or development project. Antirequisite MT8209. 1 Credit

#### **MT8315 Dir Readings Info Sys Mgmt I**

The directed readings course is intended to permit the student to survey a coherent body of literature in an area of study related to Information Systems Management. Working with a faculty supervisor, the student will develop an initial bibliography to focus the study, and will complete a research paper on the selected topic of interest. Antirequisites MT8901, MT8316. 1 Credit

**MT8316 Dir Readings Info Sys Mgmt II**

The directed readings module is intended to permit the student to explore a coherent body of literature in an area of study related to Information Systems Management. Working with a faculty supervisor, the student will develop an initial bibliography to focus the study, and will complete a research paper on the selected topic of interest. Antirequisite MT8315 0.5 Credit

**MT8317 Info Arch Theory**

This is an advanced foundational course in information architecture theory, focusing on application of theories to systems design projects involving database or knowledge management systems. This course explores theoretical perspectives on information architecture principles by demonstrating the application and development of an information architecture required to support an overall IT and Business Strategy. This course utilizes an experiential learning design and will provide students the opportunity design an information architecture model for a complex system. Antirequisite ITM613.

1 Credit

**MT8318 Wireless/Mob Comm**

This course explores concepts and applications of wireless technologies and systems, and mobile and wireless communications within a business environment. It provides an understanding of complex wireless and mobile systems by exploring individual components used to build these systems. These include network management, integration of wireless and wireline networks, system support for mobility, computing system architectures for wireless nodes, and user interfaces appropriate for handheld portable devices. Antirequisite ITM704. 1 Credit

**MT8321 Personal Data Privacy**

The purpose of this course is to identify personal data privacy issues involved in information technology management and examine a full spectrum of possible as well as feasible solutions (technological and business) to safeguard personal data privacy. This course will explore the principles of data privacy, the threats to privacy, international and national policy, particularly privacy enhancing technologies as they apply to the management of information systems and eBusiness. Antirequisite ITM725. 1 Credit

**MT8322 Data Warehousing Methods**

This course explores fundamental principles that underlie the wide spectrum of activities and processes associated with discovering useful knowledge from aggregate data in a business setting. The course structure is based upon three major technologies that enable the transformation of data into knowledge: data warehousing, OLAP, and data mining. The emphasis of the course will be on the application, implementation and integration of the technologies with the business process and strategic goals of the enterprise. Antirequisite ITM729. 1Credit

**MT8323 Customer Relations Mgmt IT**

This course addresses the growing need of business for experts to help them with the development and implementation of systems at improving customer service and satisfaction with a particular focus on enterprise-wide customer relationship management systems. Students will become familiar with the technical aspects of customer relationship management and business aspects of customer relationship management. Students will develop knowledge in defining business requirements for customer acquisition and retention, identifying, implementing and managing IT enabled solutions. Antirequisite ITM730. 1Credit

**MT8324 Info Sys Security and Control**

This course considers the technical, operational and managerial issues of computer and network security in an operational environment. Industry best practices relating to computer security including schemes for breaking security, and techniques for detecting and preventing security violations are the core focus of this course. Additional material on the development of appropriate safeguards, the study of different types of security systems and the development of appropriate security for the perceived risk are also introduced. Antirequisite ITm420. 1 Credit

**MT8326 Adv Re-engineering Methods**

This course introduces concepts and techniques of managing organizational change involving the implementation of information technology, and provides an overview of key change management issues involving IT in organizations. Various approaches for managing conflict and processes for facilitating optimum IT adoption and use will be presented. Planning, innovation, and implementation strategy formulation will be addressed through case studies examining prototypes of IT change management problems. Antirequisite ITM601. 1Credit

**MT8403 Competitive Strategy for Media I**

This is a competitive strategy module with a focus on media firms and dynamics of strategy in the media industries. The module combines resource-based and competence-based approaches to strategy and examines determinants of performance in media firms. It introduces multiple case studies to illustrate industry dynamics, innovation and resources, strategic architecture, intangible factors, performance metrics in media firms. 0.5 Credit

**MT8406 Managing Creativity in Orgs**

Creative individuals and the creative process are at the heart of media production. This module examines the management of creativity in terms of processes, structures, incentives, and practices that enable the manager to successfully lead creative people. Topics include brainstorming, team building, performance measurement and feedback techniques, relationship building, communication, and motivation. 0.5 Credit

**MT8408 Adv Media, Communication Tech**

This course surveys contemporary and emerging communication technologies such as Next Generation Network Technologies, Multimedia and Internet Systems and Services, Broadband Satellite Technologies, Wideband Wireless Communication Technology

and Services, and Advanced Intelligent Network Technology and Services, and explores their applications implications for communication and cultural practices. The module encompasses theoretical and applied perspectives. 1 Credit

**MT8409 Lgl/Policy Issues in Media Ind**

Around the world, rapid changes in the media and communications industries are affecting the legal, regulatory, and policy frameworks within which these industries operate. Business leaders need to understand how competition, ownership, content, contracts, privacy, intellectual property rights, liability, trade, and taxation issues affect their firms. This course provides an overview of these issues in Canada and internationally. Exclusion MT8420. 1 Credit

**MT8410 Compet Strategy Media Ind II**

This module builds on MT8403. Using international and Canadian case studies, it illustrates industry dynamics, innovation and resources, strategic architecture, intangible factors, performance metrics in media firms. Prerequisite: MT8403. Antirequisite MT8213. 0.5 Credit

**MT8411 Media, Consumers and Markets**

This course examines product and service innovation in media industries and investigates trends in consumption of media products and services. It introduces students to ways of understanding consumer behaviour with respect to media products and services. The course examines methods and models that treat consumers as customers, users, and audience members. 1 Credit

**MT8412 Core Issues Media Management**

This course provides a comprehensive overview of management issues in diversified media firms. It covers the media value chain, content strategies, supply chain management in media industries, marketing to customers and audiences, advertising strategies, corporate strategy, the impacts of digital media, and HR management in creative firms. 1 Credit

**MT8413 Media Entrepreneurship**

Self-employment is not unusual in the media industries, but it is relatively new for media professionals to seek to engage in growth-oriented media ventures. In this module students gain a familiarity with entrepreneurship issues in media industries. Students identify and develop an entrepreneurial opportunity for a media venture, and prepare for the development of this venture through the production of a business plan. 0.5 Credit

**MT8414 Dir Readings Media Mgmt I**

The directed readings course is intended to permit the student to survey a coherent body of literature in an area of study related to Media Management. Working with a faculty supervisor, the student will develop an initial bibliography to focus the study, and will complete a research paper on the selected topic of interest. Antirequisite MT8415. 1 Credit

**MT8415 Dir Readings Media Mgmt II**

The directed readings module is intended to permit the student to explore a coherent body of literature in an area of study related to Media Management. Working with a faculty supervisor, the student will develop an initial bibliography to focus the study, and will complete a research paper on the selected topic of interest. Antirequisite MT8414. 0.5 Credit

**MT8416 Special Topics Media Mgmt**

Special topics courses in Media Management may be offered in response to students' needs and interests. Topics may include international or intercultural media management, media industry analysis, new venture management in the media industry, and financing media ventures. 1 Credit

**MT8417 TV Distribution**

The distributor is essentially the producer's sales person of a program. This course will explore the essential responsibilities of television distributors and their relationship to the producer and investors of programming. Students will learn how and where programs are sold, revenue expectations from various genre and territories, and how to successfully market and promote programming. International markets, contracting, selling, merchandising and administrative details will be reviewed. Antirequisite BDC911. 1 Credit

**MT8418 Legal Bus Aspects of Media**

Students will learn about the legalities on Internet regulation, website design, information collection, privacy protection, copyright and trademarks on the Internet, trade secrets, and how to determine which country's laws apply when conducting business on the Internet over national borders. They will also learn what to insist on and what to avoid in contracts, and will learn about on-line payment systems and electronic signatures. Antirequisite BDC912. 1 Credit

**MT8419 Economics of Media**

As the broadcasting and new media industries evolve, old forms of management may give way to new structures. This course will explore trends in entrepreneurship, employment, types of "work" and different management styles in a world of mergers, consolidation and networks. Within different models, the financiers and economic models that support the industry will be reviewed. Antirequisite BDC914. 1Credit

**MT8420 Legal Issues in Media**

This course will provide students with a general familiarity and understanding of the concepts and legal process inherent in the business of broadcasting and communications. Topics to be covered include copyright, contracts, clearance of program rights, legal issues relating to the Internet and multimedia. Issues in entertainment law and sports law will also be reviewed, as will government regulation of the broadcasting and multimedia industries. Antirequisite BDC915, MT8408. 1 Credit

**MT8421 Media Business Studies**

This course will cover general business practices including marketing, finance, accounting, statutes and regulations particularly applicable to the successful operation of small media businesses. A case study approach will be used.  
Antirequisite FPN536. 1 Credit

**MT8422 Advertising in Elec Media**

Students will follow a commercial production from inception to completion. Aspects of advertising to be reviewed include: competitive bidding by agencies; budgeting for commercial production; relationships with production houses; CRTC regulations and broadcaster advertisement codes; and the role of various personnel involved in the bidding, pre-production, production and post-production stages of a commercial. Effectiveness and persuasiveness of commercial content will be explored. Antirequisite BDC901. 1 Credit

**MT8423 TV Marketing Promotion**

This course will demonstrate how to successfully market television programs, channels and networks to an intended target audience. Students will be introduced to the foundation of knowledge and procedures associated with effective marketing and promotion techniques. Specific areas of discussion include; brand identity, strategies and tactics for on-air promotion and campaigns, off-air advertising, publicity, use of the Internet and promotional partnerships. Antirequisite BDC906. 1 Credit

**MT8424 Production Mgmt**

This course will provide an overview of the role of the production manager in film and television. Students will become acquainted with the sophisticated administrative procedures and planning necessary for a successful production. Activities in the four stages of production will be reviewed: development; pre-production; production; post and wrap. Topics include: script breakdown, scheduling, budgeting, industrial relations, facilities and suppliers, location management, accounting, talent and crew unions, contracts, reporting mechanisms and relevant forms and paperwork. Antirequisite BDC910.  
1 Credit

**MT8425 Digital Media in Practice**

The first half of this course provides a review of current and emerging digital media, with particular emphasis on social media enabled by web 2.0 and their impacts on a variety of industry sectors such as marketing and advertising, government and health care. In the second half of the course, students will analyze needs and develop strategies for effective use of new digital media in particular organizational contexts. Topics will include: a review of digital media, consumption of digital media, assessing user needs and feasibility and applications of digital media and measurement. Interdisciplinary teams will undertake a feasibility study for a particular organization and implement a small scale project as part of this course. Credit

**MT8509 Special Topics Supp Chain Mgmt**

Special topics courses in Supply Chain Management may be offered in response to students' needs and interests.  
1 Credit

**MT8510 Adv Supply Chain Mgt Practices**

Topics include purchasing/supply chain functions, production, distribution and logistics systems, financial considerations, outsourcing and partnership options, competitive bidding and negotiation, contracts, client service and satisfaction issues, etc. Emerging models of buyer-supplier networks and electronic markets will be discussed in terms of the range of key technologies used to support processes within e-enabled corporations. (This course may use the SAP system to demonstrate aspects of integrated IT supply chain management systems.) 1 Credit.

**MT8511 Operations Mgmt and Process Improvement**

Successful operations management requires a broad understanding of operational strategy, business processes, enterprise systems technologies, and process improvement techniques. Students will gain experience analyzing business processes and designing improved workflows using a variety of enterprise systems (e.g. ERP and CRM), business performance management, project management, and Lean Six Sigma tools and techniques. 1 Credit

**MT8512 Logistics and Inventory Mgmt**

The course will address advanced supply chain management issues including the following topics: facility location, design of distribution networks, demand forecasting, inventory management, aggregate planning, transportation decision-making, use of IT, sourcing, and pricing. The course will emphasize the use of analytical methods and will also incorporate risk management in business logistics. 1 Credit

**MT8513 Intro to Operations Research**

This course provides an overview of the basic principles of Operations Research with special emphasis on the paradigms associated with linear programming and queuing theory. These include generic modelling; mathematical modelling; the 'max', 'min', and 'mixed case' simplex algorithms; sensitivity analysis; duality; 'assignment', 'transportation' and 'transshipment' models; and basic principles and models associated with queuing or 'waiting-line' problems. These subjects will be studied from both theoretical and practical perspectives. The class requires background in probability theory and linear algebra as well as some skills in computer programming. 1 Credit

**MT8514 Dir Readings Supp Chn Mgmt I**

The directed readings course is intended to permit the student to survey a coherent body of literature in an area of study related to Supply Chain Management. Working with a faculty supervisor, the student will develop an initial bibliography to focus the study, and will complete a research paper on the selected topic of interest. Antirequisite MT8515. 1 Credit

**MT8515 Dir Readings Supp Chn Mgmt II**

The directed readings module is intended to permit the student to explore a coherent body of literature in an area of study related to Supply Chain Management. Working with a faculty supervisor, the student will develop an initial bibliography to focus the study, and will complete a research paper on the selected topic of interest. Antirequisite MT8514. 0.5 Credit

**MT8516 Procurement and Supply Chain Management**

A seminar designed to discuss all activities required to bring materials, parts, and sub-assemblies into and through the enterprise at the lowest possible overall costs with end-user quality requirements. Weekly case assignments integrate the subject matter with the supply management functions. Topics include: the challenge of purchasing and supply management, effective organization, techniques of buying, computerization, Electronic Data Interchange, the web, quality including I.S.O. 9000/14000 standards, specifications and standardization, inventory management, supplier selection, price determination. Antirequisite MGT701. 1 Credit

**MT8517 Principles of Transportation**

This course examines the field of Traffic and Transportation management in order to provide a professional level of competency for students who wish to pursue careers in Purchasing and Materials Management and/or professional transportation management. Course topics include: transportation regulation and deregulation, transportation economics, buying transportation services, truck transportation, rail transportation, air, marine and pipeline, computers in transportation, customs and excise, dangerous goods, packaging, damage prevention, and carrier claims. Antirequisite MGT803. 1 Credit

**MT8518 Studies Gbl Supp Chn Mgmt**

This course will expose the student to many of the topics currently dominating the study of global supply management. Subjects will include: locating potential suppliers; the importance of cultural and communication skills; legal practices; currency factors; logistics; supplier payment, channel payment, and more. Students will be expected to present reports on various topics using both primary and secondary research techniques. Antirequisites MGT804, MB8707. 1 Credit

**MT8519 Logistics Management I**

The goals of this course are to develop an understanding of the logistics process, and to acquire analytical skills in monitoring the ability to provide end customer satisfaction and financial effectiveness. The core competencies in this course start with study of decision strategies in warehousing and inventory management. The course continues with a study of order processing and decision support systems. The course concludes with a look at global logistics and the strategic logistics plan. Antirequisite RMG903. 1 Credit

**MT8520 Logistics and Transportation Management**

This course explores the application of analytical diagnostic tools to the logistics sphere with a view to optimizing end customer satisfaction and financial effectiveness through optimal use of the supply chain system. Topics include: activity based costing, productivity, total quality management (TQM) and JIT systems, utilization, and performance measures to improve effectiveness and efficiency. The core competencies in this course start with a study of channels of distribution and transportation. Prerequisite MT8519, Antirequisite RMG904. 1 Credit.

**MT8521 Operations Management**

This course examines production and operations management that relate to the creation of goods and services through the transformation of inputs into outputs. It will provide an overview of production and operations management, which includes productivity, competitiveness and strategy, quality management; product and service design; process selection; design of work systems; learning curves; inventory management, maintenance and reliability and project management. Antirequisite MGT401. 1Credit

**MT8522 Public Sector Supply Chain Mgmt**

This course examines production and operations management that relate to the creation of goods and services through the transformation of inputs into outputs. It will provide an overview of production and operations management, which includes productivity, competitiveness and strategy, quality management; product and service design; process selection; design of work systems; learning curves; inventory management, maintenance and reliability and project management. Antirequisite MGT401. 1Credit

**MT8600 Research and Communication for Mgrs**

This applied course introduces theories and skills of management research and communication. Key research topics include formulating questions, conducting industry analyses and critical literature reviews, quantitative and qualitative methods and report writing. The communication dimensions focus mostly on career-related skills such as writing resumes and cover letters, doing presentations and interviewing. Antirequisite MB8600. 1 Credit

**MT8802 Strategic Tech Portfolio Mgmt**

This module reviews models for establishing technology priorities and managing multiple projects with an emphasis on the portfolio management process. 0.5 Credit

**MT8803 Leadership in a PMO Context**

Providing project or program leadership is different than providing project support and coaching to other project managers as part of a centralized Project Management Office (PMO). Explore the differences between direct and indirect leadership and the issues involved in creating and managing internal project management centres of excellence. Explore the definitions of established approaches to setting up and managing a PMO and understand best practices that work effectively to encourage the sharing and application of new knowledge in organizations. 0.5 Credit

#### **MT8806 Applied Management Project**

Students will work directly with a faculty member in the program on a specific research question related to their area of specialization. Students will produce a research paper that applies theories of management and innovation to the topic of interest, demonstrating their ability to integrate management practice and theory. 1 Credit

#### **MT8807 Managing Knowledge and IP**

Intellectual capital has been defined as any asset that cannot be measured but is used by a company to its advantage. Knowledge, collective expertise, goodwill, brand value and patents usually are absent from conventional financial statements but are critical to organizational success. This course focuses on ways of assessing, organizing, sharing, protecting and leveraging intellectual property (IP) and strategies for knowledge using established knowledge management techniques. 1 Credit

#### **MT8808 Consulting Skills**

This course examines consulting industry, consulting firms and consulting process models as they apply to various types of IT consulting engagements, as well as the distinctions between IT consulting practice and general management consulting. Students will study real life consulting projects with practitioners in order to explore consulting skills, roles, skills and services and how they apply to IT projects. This course will be relevant to students who anticipate being external or internal consultants. Antirequisite ITM724. 1 Credit

#### **MT8809 Venture Financing and Planning**

This course is mainly a case study course and is designed for students who are interested in venture capital (VC) and private equity (PE) investments as well as for prospective entrepreneurs who have an interest in starting a new venture. This course explores the nature and mechanics venture capital and private equity and ways in which companies and prospective entrepreneurs can assess their options and develop business cases to attract needed financing. 1 Credit

#### **MT8810 Product Development and Commercialization**

This module introduces students to entrepreneurial thinking, entrepreneurial processes and the steps in taking a great idea to market. Case studies will be used to demonstrate how entrepreneurs foster innovation within existing businesses and in developing successful new businesses. The principles of entrepreneurship will be outlined, and students will learn how to apply these principles to identify new opportunities, initiatives, and innovations and how to move these innovations to the market place. 1 Credit

#### **MT8900 Master's Thesis**

This option is appropriate for students considering a career in Academia or research. Students choosing this option must take the research methods elective, and produce a formal proposal for approval. Original research can be undertaken at one of the Faculty's centres or institutes. Standard thesis format is required and there will be an oral defense. Pass/Fail

#### **MT8901 Directed Readings**

The directed readings course is intended to permit the student to survey a coherent body of literature in an area of study related to the student's field of study. 1 Credit

#### **MT8902 Master's Research Project/Internship**

This major research project is normally tied to a work placement or contract with an organization. These projects usually focus on the application of theory to practice and the analysis of a particular market, organizational or management issue. Where appropriate, these projects can be undertaken in small groups. A proposal for this project must be approved in advance. An oral defense may be part of the requirements. Pass/Fail

#### **MT8903 International Exchange**

Students choosing this option must have advanced approval. Two approved graduate courses are taken at an approved university. Students may undertake research under the direction of a faculty member on an approved topic and are required to produce a reflective paper that incorporates theory and practice (eg. cross-cultural comparisons, case studies, organizational analyses). Pass/ Fail