

COURSE DESCRIPTIONS

Master of Science Applied Computer Science and Society

GACS-4306 (3) Applied Parallel Programming (Lecture | Lab) The course focuses on parallel and distributed computing in high-performance scientific application, using the parallel execution model, a generalization of the traditional single threaded paradigm. The course covers multi-core processors, concurrency, parallel execution, latency, communication and coordination among processes, message passing, shared-memory models, optimization techniques, parallel algorithms, decomposition strategies, system architecture, and performance analysis and tuning. Using the language C/C++, students gain hands-on experience writing scalable parallel applications for Graphics Processing Units.

Restriction(s): Students that have taken ACS-4306 will not be eligible to take GACS-4306/7306 for GACS degree credit.

Requisite Courses: Take GACS-4306L (LAB).

GACS-4902 (3) Advanced Database Systems (Lecture) This course is a continuation of ACS-3902(3). It deals with advanced topics in database design, use, and administration. Database design topics include enhanced ER diagrams and object-oriented data modelling. Other topics include transaction processing, concurrency control and recovery, security, and integrity. Object-oriented databases and client-server architectures will also be discussed.

Restriction(s): Students that have taken ACS-4902 will not be eligible to take GACS-4902 for GACS degree credit.

GACS-4904 (3) Data Warehousing (Lecture) This course explores the role of data warehouses in supporting decision-making in organizations. Topics include definition of a data warehouse; extracting, cleansing, and transforming data; building and maintaining the warehouse; meta data; dimensional analysis and multidimensional modeling; multidimensional data structures; Star schemas; OLAP (On Line Analytical Processing); drilling down and across; and web deployment.

Restriction(s): Students that have taken ACS-4904 will not be eligible to take GACS-4904 for GACS degree credit.

GACS-4906 (3) Conceptual Modelling (Lecture) This course explores the role of conceptual modelling in the development of information systems. A conceptual model is an abstraction of reality that serves as a communication mechanism between the stakeholders of a system and its developers. The course covers various approaches proposed for conceptual modelling included UML, EERD, and ORM. Students gain considerable practical experience with pertinent software tools.

Restriction(s): Students that have taken ACS-4906 will not be eligible to take GACS-4906 for GACS degree credit.

GACS-4921 (3) Computer Security and Privacy (Lecture) This course introduces students to the security and privacy issues in computer systems. It covers the fundamental computer security techniques such as

encryption methods, public key cryptography, hash function and signature schemes, key exchange protocols, authentication and access control models. The course also examines the applications of these techniques for multimedia security, intrusion detection, copyright and password protection, and protection from malicious programs. Privacy preserving techniques such as data aggregation, perturbation, k-anonymity and l-diversity, and ethical issues are also discussed. Students at the 4921 level additionally undertake a comprehensive project on a topic related to computer security and privacy.

Restriction(s): Students that have taken ACS-4921 will not be eligible to take GACS-4921 for GACS degree credit.

GACS-4953 (3) Introduction to Machine Learning (Lecture) This course is an introduction to the broad field of machine learning. Machine learning provides the technical basis for data mining. This course examines the foundations and implementations of several machine learning algorithms. Specific topics include: rule and tree-based classifiers, Bayesian models, clustering techniques and numeric prediction. Popular machine learning tool sets will be used to gain practical hands-on experience in i) preparing the data, ii) applying the various learning techniques and iii) interpreting the credibility of the results.

Restriction(s): Students that have taken ACS-4953 will not be eligible to take GACS-4953 for GACS degree credit.

GACS-4954 (3) Introduction to Distributed Systems (Lecture) This course is an introduction to the broad field of distributed systems. It focuses on introducing students to the benefits, challenges, methods, and implementations of distributed systems. Reasons for deploying distributed systems, such as fault tolerance and agglomeration of computational resources are discussed. Other topics include implementation challenges such as synchronization and replication in the presence of faults. Common system architectures that address some of these challenges are also introduced. Students are expected to implement some of these architectures to reinforce the lecture material.

Restriction(s): Students that have taken ACS-4954 will not be eligible to take GACS-4954 for GACS degree credit.

GACS-7101 (3) Advanced Data Structures and Algorithms (Lecture) In this course, students will study methods for designing efficient data structures and algorithms such as binary search trees, red-black trees, priority queues, minimum spanning trees, strongly connected components, maximum flows, string matching and tree matching, bipartite graphs, as well as the algorithm analysis and proof. Through the study of these data structures and algorithms, students will develop skills to solve hard problems in specialized databases such as Graph databases, DNA and Deductive databases.

GACS-7102 (3) Web and Document Databases (Lecture) In this course, students will gain a good

understanding and knowledge of research issues associated with two types and databases. In particular, students will study basic theoretic issues of web and document databases: system architectures, XML data storage and data compression, data retrieval and twig matching, data stream system, as well as the search engine architecture. Another specific methodology related to Graph databases will also be discussed.

GACS-7103 (3) Semantic Web (3 hrs Lecture) This course examines current issues related to the next generation of the World Wide Web: the Semantic Web that is intended to convert the Web into a more practical globally linked database. Topics comprise document markup languages, access privileges, business rules, and processing models for managing data. A typical project involves the design and implementation of an application for managing semi-structured data using XML technologies.

GACS-7104 (3) Theory and Practice of Security and Privacy (3 hrs Lecture) This course provides students an understanding of theoretical and practical aspects of security and privacy and opens them up to the current research challenges in this area. Topics include classical cryptography, symmetric encryption, public key cryptography, key distribution mechanisms, digital signature, entity and message authentication, access control, multimedia security and digital right management, secret sharing, physical security, privacy preserving techniques such as data aggregation, perturbation, k-anonymity and l-diversity.

GACS-7105 (3) Operations Research in Computer Science (Lecture) This course provides a broad focus on algorithmic and practical implementation of Operations Research (OR) techniques, using theory, applications, and computations to teach students the basics of both deterministic and probabilistic decision making. It introduces linear programming and emphasizes its underlying mathematical structures, algorithms, and solutions of practical programs. Topics covered include: formulations and relaxations, the geometry of linear optimization, convexity analysis, duality theory, the simplex method, sensitivity analysis, constrained and unconstrained optimization methods, robust optimization, network flows, semidefinite optimization, nonlinear optimization, heuristic programming, game and decision theory, Markov chains and queuing systems. At the end of the course, students will be able to solve real world computer science and engineering problems using optimization software tools.

GACS-7201 (3) Biometrics (3 hrs Lecture) Biometrics refers to the automatic identification of a person based on his/her physiological or behavioral characteristics. With the increased integration of computers and Internet into our everyday lives, to protect sensitive and personal data becomes more important and challenging. This course focuses on the design of various biometric systems based on fingerprints, voice, face, hand geometry, palm print, iris, retina, and other modalities. Multimodal biometric systems that use two or more of the above characteristics are studied. This course also examines biometric system performance and the issues related to the security and

privacy aspects of these systems.

GACS-7202 (3) Granular Computing: Foundations and Applications (Lecture) This course examines granular computing as a framework of theories, methodologies, techniques, and tools that make use of information granules in the process of problem solving. Granular computing has a significant impact on the design and implementation of intelligent systems. Emphasis is placed on the study of the theory of rough and fuzzy sets. Applications of these theories are also explored. This course also examines social issues that arise from application of these theories in selected domains.

GACS-7203 (3) Pattern Recognition (3 hrs Lecture) This course gives students an overview of classification techniques. It covers methods from linear classifiers to nonparametric techniques. Feature generation, selection, and extraction techniques are examined. Both supervised and unsupervised learning methods are discussed.

GACS-7204 (3) Multimedia Computing and Applications (3 hrs Lecture) This course provides graduate students with an in-depth knowledge of various computational techniques and tools used in multimedia research (images, videos, speech, graphics and documents). The course covers the following topics: fundamentals of multimedia signal processing, multimedia compression, wireless multimedia, multimedia summarization, content-based multimedia retrieval, multimedia surveillance and security, and current issues and trends in multimedia research. The objective of this course is to prepare students to understand the theoretical foundation of multimedia computing, and to apply computational tools such as Matlab, Intel OpenCV, etc., to the processing and analysis of multimedia data.

GACS-7205 (3) Digital Image Processing (Lecture) This course provides students a detailed overview of Digital Image Processing and its applications. Image processing has found applications in many areas from medical imaging to computer graphics. This course covers the fundamental concepts of visual perception and image acquisition, basic techniques of image manipulation, segmentation and coding, and a preliminary understanding of Computer Vision. With successful completion of the course, students will be able to perform image manipulations and analysis in many different fields.

GACS-7206 (3) Advanced Machine Learning (Lecture) The course will cover core machine algorithms, but emphasis is placed on research-level machine learning methods and theory. Algorithms for classification, clustering, regression and dimensionality reduction are covered. Discovering patterns in web content, structure and usage will also be discussed. Applications of these algorithms for effectively using machine learning methods to solve real-world problems are also explored via the Weka machine learning workbench. Evaluating predictive quality of the algorithms and assessing credibility of learned patterns with statistical methods will be also covered. An implementation project is a major part of this course.

GACS-7301 (3) Implement and Impact of

Peer-To-Peer Systems (3 hrs Lecture) The course is divided into two parts. First half of the course examines the foundations, implementation, and characteristics of various peer-to-peer systems (both research and production). Topics discussed will include the formation, structure, maintenance, purpose, and function of peer-to-peer systems, as well as their commonalities and differences. The second half of the course examines the social issues that arise from the manner in which peer-to-peer systems are structured and used. The issues examined in this half include: copyright-related issues such as the Napster and Grokster decisions; anonymity and privacy, with respect to systems such as Tor; and security-related issues.

GACS-7302 (3) Global Software Project Management

(3 hrs Lecture) This course identifies and addresses the social, organizational and technical issues in managing global software projects. Its topics include communications and coordination in a distributed environment; critical success factors; global project management framework; generic design (void of nationalities) and local design (with target culture); and evaluation criteria of the perceived effectiveness of various global project management strategies. The course incorporates both theory and practice, including case studies from international software development companies. Students are expected to participate in research to enrich the course material.

GACS-7303 (3) Advanced Topics in Software Design

and Architecture (3 hrs Lecture) This course considers problems and issues in the development of enterprise-level software systems. Topics may include software architectures, model driven development, development methodologies, design patterns, frameworks, coding practices, etc. During the semester students are required to work on the design and/or implementation of a complex multi-tiered system.

GACS-7304 (3) Computer Systems for Society

(Lecture) This course provides students a broad understanding of how the computer systems are used in various societal domains such as human communication, education, homeland security, health and medicine, government, business, and transportation. The focus of the course is on study of the frameworks, models and algorithms used in these systems and on to expose students with the areas where improvement can be done. Students are required to undertake a course-end project to identify the potential research problems in a particular application area and investigate their innovative scientific solutions in order to have a greater impact on society.

GACS-7305 (6) Graduate Project (Lecture) The intent of this course is to allow a student to choose an area of specialization and to work on a state-of-the-art project in that area. Suitable projects may include, for example, the implementation and evaluation of new algorithms or the use of modern technologies for novel applications. Completion of the course requires a written report and an oral presentation. The specific details of the report are determined in consultation with the project advisor, but

must include a survey of relevant literature, a description and evaluation pertinent to the student's work, and details of software authored by the student.

Restriction(s): Open only to course-based stream students. Students must complete two semesters in the GACS graduate program before they can take the project course.

GACS-7306 (3) Applied Parallel Programming

(Lecture) The course focuses on parallel and distributed computing in high-performance scientific application, using the parallel execution model, a generalization of the traditional single threaded paradigm. The course covers knowledge of multi-core processors, concurrency, parallel execution, latency, communication and coordination among processes, message passing, shared-memory models, optimization techniques, parallel algorithms, decomposition strategies, system architecture, and performance analysis and tuning. Using the language C/C++, students gain hands-on experience writing scalable parallel applications for Graphics Processing Units.

Restriction(s): Students that have taken ACS-4306 will not be eligible to take GACS-7306/4306 for GACS degree credit.

GACS-7307 (3) Advanced Concepts in Cloud

Computing (Lecture) This course provides extensive coverage of major subjects in Cloud Computing. It gives an overview of Cloud Computing and explains its main service delivery models, deployment architectures, and key enabling technologies such as virtualization, parallel computing, and Big Data analytics. Students will acquire considerable knowledge in Cloud data and resource management, design patterns, security and privacy challenges and solutions, as well as commercial and open-source Cloud systems. Other topics covered include application migration to the Cloud, interoperability issues, Quality of Service and Service Level Agreement. Students will also gain critical research skills by taking on a research project in Cloud Computing.

GACS-7401 (3) Current Topics in Computing (Lecture)

This course is a combination of readings, discussions, hands-on projects, and oral presentations that explore current topics in the field of computer science. During the semester students may be required to work on the design and/or implementation of systems, participate in discussions, and present seminars on chosen topics.

GACS-7500 (18) Graduate Thesis (Lecture) Graduate thesis research. Detailed exploration of an area of Applied Computer Science chosen for thesis research.

Master of Arts Applied Economics

GECON-7000 (3) Research Project (Lecture) The aim of this course is to provide students in the M.A.E. program with an opportunity to undertake a research project, and to present it in a written essay. Instructors of this course will provide guidance to students on how to make an effective economic argument. Students choose the topic of their project in consultation with their instructor.

GECON-7001 (3) Special Studies in ERDE (Directed Study) This course provides students of the M.A.E. program with an opportunity to explore topics related to environmental, resource and development economics but not covered by existing M.A.E. courses. The course can either take a Directed Readings format, or represent the graduate-level version of an Honours course outside of Economics. In the latter case, students must choose from the list of non-Economics elective courses approved by the Graduate Program Committee and available on the M.A.E. website.

Restriction(s): Students must obtain permission from the Graduate Program Committee (GPC) to register for this course.

GECON-7002 (3) MAE Practicum (Lecture) This course provides students of the M.A.E. with an opportunity to obtain experience with research or policy analysis related to applied economics. Placements will either be with a Canadian research institute, to give students an opportunity to conduct (and contribute to) policy-related research, or a with a Canadian non- governmental organization, to provide hands-on, practical experience with policy analysis.

Restriction(s): Students must obtain permission from the Graduate Program Committee (GPC) to register for this course.

GECON-7003 (3) Cost Benefit Analysis and Valuation Techniques (Lecture) This course examines the measurement and analysis of costs and benefits for project/policy evaluation. It describes the theoretical basis for applied welfare analysis and discusses empirical techniques for estimating use, option and existence values using observed behavior and stated preferences. Topics related to cost-benefit analysis such as discounting, integrated assessment models, and benefit transfer are studied. These concepts are applied for analysing a variety of issues in the areas of environment, natural resources, health care and public expenditure analysis.

GECON-7102 (3) Microeconomics (Lecture) This course provides an introduction to microeconomic theory at the advanced level. We consider consumer choice theory with certainty and under uncertainty, producer theory, and general equilibrium theory in the first part of the course. The second part of the course is dedicated to modern microeconomics of strategic interactions, game theory and information. We consider static and dynamic games, Bayesian games, oligopoly, and markets with information asymmetry.

GECON-7103 (3) Macroeconomics (Lecture) This course discusses growth theories, stressing their empirical implications and the relation of theory to data and evidence. The growth theories covered include neoclassical theories, Solow-Swan model and the Ramsey-Cass-Koopmans model, as well as endogenous growth theories. In addition, the essentials of growth accounting and empirical analysis using cross-country datasets, with a particular emphasis on convergence, are discussed.

GECON-7200 (0) Math Review for MAE Students (Lecture) This course reviews the mathematical tools that are required for coursework in the Master of Arts in Applied Economics (MAE) program. It is presumed that students have a working knowledge of differentiation, partial differentiation, optimization of functions with multiple variables and basic matrix algebra. These concepts are reviewed and applied to economic techniques such as constrained optimization, comparative statics, concave programming and the Kuhn-Tucker conditions.

GECON-7201 (3) Applied Econometrics (Lecture | Lab) This course covers methods of estimation and inference for single and simultaneous equations models, with an emphasis on the classical linear model. It also examines violations of the classical model that are commonly found in economic data, and develops procedures for estimation under these conditions.

Requisite Courses: Take GECON-7201L.

GECON-7203 (3) Topics in Mathematical Economics (Lecture) This course introduces advanced mathematical methods for formulating and analyzing economic theories and problems. Topics such as difference and differential equations, dynamic optimization, and game theory are presented with economic applications.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4203 or GECON-4203.

GECON-7303 (3) Topics in Applied Economics (Lecture) This course examines issues in a selected area of economics. Possible areas include labour, health and development economics. The choice of topic depends on the instructor. The emphasis is on using empirical methods. Appropriate econometric techniques for addressing issues of endogeneity, selection bias, and unobserved heterogeneity may be covered. Students may repeat this course for credit, provided the topic varies.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4303 or GECON-4303.

GECON-7305 (3) Development Economics (Lecture) This course provides an overview of the current literature on the economic growth and development of developing countries. Topics covered include economic growth, inequality, the role of geography, history, and institutions for sustainable growth, the internal structure of

households, human capital, and the functioning of factor markets. The objective of the course is to introduce students to some of the most active new areas of research on economic development and to apply the analytical and empirical tools for studying some of the most pressing issues faced by developing countries.

GECON-7307 (3) Topics in Macroeconomics (Lecture)

This course provides students with an opportunity to build on the macroeconomics background they have developed in Honours Macroeconomics and graduate Macroeconomics. The course introduces students to dynamic macroeconomic models and techniques for solving them, highlighting the use of such models and techniques for understanding the implications of macroeconomic policy. Emphasis is placed on the importance of political economy considerations in macroeconomics. Issues covered in any given year may include the interplay between demographics and fiscal policy, the determinants of policy related to technology adoption and therefore economic growth, income redistribution or the determination of monetary policy.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4307 or GECON-4307 (unless the topic varies).

Requisite Courses: Successful completion of GECON-7103.

GECON-7310 (3) Topics in International Economics

(Lecture) This course examines theoretical and applied topics related to international trade or international finance. Topics related to international trade may include a discussion of the benefits of trade, the effects of tariffs and quotas, customs unions and imperfect competition on trade. Topics related to international finance may include an examination of exchange rate policy, the fiscal and monetary effects of trade investment flows, and the development of the international monetary system.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4310 or GECON-4310.

GECON-7311 (3) Natural Resource Economics

(Lecture) This course reviews the normative foundations of natural resource economics, addressing concepts such as efficiency, intergenerational equity and sustainability. Renewable and non-renewable resources such as forestry, fisheries, renewable energy, and fossil fuels are considered. The course further examines (i) the role of natural resources in economic development, and (ii) natural resource management under various market structures, regulatory regimes, and the existence of non-consumptive values.

GECON-7313 (3) Topics in Industrial Organization and Competition Policy (Lecture)

This course examines industrial organization theory, which is the field in economics that examines the conduct and behaviour of firms in imperfectly competitive markets. Given this setting, firms have an incentive to undertake strategies which enhance their profitability, and in analyzing these strategies, we discuss a number of key concepts from game theory. Included in the course is an analysis of the

behaviour of monopoly firms and their use of a variety of pricing and marketing practices. In addition, the course examines the effect of quality and durability of goods and the use of warranties by firms on social welfare.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4313 or GECON-4313 (unless the topic varies).

GECON-7314 (3) Topics in Public Economics (Lecture)

This course deals with the theory of taxation and public expenditures within the context of first-best and second-best analysis. The theories of production, consumption, and other externalities are discussed. Other topics include the theory and practice of cost-benefit analysis and fiscal federalism. The economic analysis of collective decision-making in a non-market context is examined.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4314 or GECON-4314.

GECON-7315 (3) Environmental and Natural Resource Economics (Lecture)

This course reviews the theoretical foundations of environmental and natural resources economics addressing issues such as externalities, regulation of polluting activities, and the role of natural resources in economic development. It examines environmental policy and resource extraction strategies in the context of complexities arising due to imperfect competition, international trade, and uncertainty. Dynamic optimization techniques are applied to analyze climate change and the efficient utilization of renewable and non-renewable resources such as fisheries, forestry, minerals and fossil fuels.

GECON-7316 (3) Topics in Regulation and Public Enterprises (Lecture)

This course examines a number of issues in the economics of regulation. Regulation is one form of government control of private firm behaviour, and involves control over the entry of firms, limits on pricing, and the regulations involving industry standards and operations, including environmental regulation. The course examines theories of regulation, the types of regulatory rules used, and the efficacy of those rules in enhancing social welfare. Reference will be made to a number of regulated industries both in Canada and the U.S.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4316 or GECON-4316.

GECON-7317 (3) Environmental Economics (Lecture)

This course examines the interaction amongst economic activities/policies, environmental damage and social welfare. The course pursues an analytical approach to understanding the theoretical foundations for environmental economics - externalities, public goods and the regulation of polluting activities. It examines environmental policy in the context of complexities arising due to imperfect competition, international trade, regulatory enforcement, and uncertainty. Specific attention is paid to environmental problems in developing countries, and to current international environmental issues such as climate change.

GECON-7321 (3) Topics in the History of Economic

Thought (Lecture) The economic and philosophical writings of Keynes and the "Cambridge Circus" are examined in the historical and social context of the times.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4311 (unless the topic varies).

GECON-7800 (3) Investment Theory and Applications

(Lecture) This course introduces students to the main financial instruments that are used in the investment industry, including a detailed description of financial instruments and how they are traded in financial markets. A brief review of portfolio theory is presented including a discussion of a number of key models of modern finance, including the Capital Asset Pricing Model and the Arbitrage Pricing Theory. The course also includes a detailed examination of the role and operation of fixed-income securities and equities. The course concludes with a discussion of the role and techniques of passive versus active portfolio management.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4800 (unless the topic varies).

GECON-7801 (3) Options, Futures and Derivatives

(Lecture) This course provides an in-depth analysis of a number of topics in modern finance theory and applications. The main areas that are examined include Futures Markets, Option Markets and Derivatives. These financial instruments play a key role in the management of risk by firms, and have attracted increasing interest from private sector firms and the larger community. The role of these instruments in the financial markets and their effect on the financial system is examined in detail.

Restriction(s): Students may not receive credit for this course if they already have credit for ECON-4801 (unless the topic varies).

Master of Science Bioscience, Technology and Public Policy

GBIO-7100 (3) Directed Studies in Life Sciences

(Lecture) This course is designed to allow students to undertake a project in an area of their interest. The project may take the form of a literature review, it may be experimental in nature, or it may involve analysis of existing data. Evaluation is based upon, but not limited to, writing a report summarizing the student's findings. The supervisor and student must submit a proposed plan of study which must be approved by the Bioscience Graduate Program Chair prior to commencement of the course. A student may receive credit for this course only once.

GBIO-7101 (1 or 2) Seminars in Biology (Lecture) This course consists of seminars presented by students on their thesis research topic. Attendance by students is mandatory during the two years of their studies. Students in their first year are expected to present at least, but not exclusively, the appropriate background to their topic of research, the rationale and objectives to their study and some aspects of the methodology. Students in their second year are expected to add to their presentation results and conclusion, and provide an idea of likely future direction. Students are also expected to summarize and critique a specific number of outside seminars presented by faculty from other universities.

GBIO-7102 (1 or 6) Directed Studies in Biosciences and Technology (Lecture) This course allows students to learn more about critical technologies that relate to their research project in the Masters of Biosciences program. Under the guidance of their faculty supervisor, students will either participate in a specialized course of study in technologies important to the better understanding of their field of research or can develop a technology-based project in conjunction with a faculty member. The supervisor and student must submit a proposed plan of study which must be approved by the Bioscience Graduate Program Chair prior to commencement of the course.

GBIO-7103 (3) Bioscience and Policy (3 hrs Lecture) This course focuses on the relationship between government, industry and the academic sciences and the processes that shape science policy. Students gain a better understanding of the role of science policy in government and industry and where policy issues "fit" with respect to legislation and regulations, management planning and implementation, procedures and guidelines. Students analyze current science policy issues by discussing real world case studies e.g. medical, environmental, natural resource management, ethical etc. as they affect both basic and applied fields of bioscience research. Students acquire skills required for interacting effectively with policy makers and understand how scientists participate in the formulation of science policy.

GBIO-7104 (3) Analysis of Biological Data (Lecture) This course provides a foundation for graduate students in Bioscience and related disciplines in experimental design and methods to analyze their data sets using statistics and

experimental design. The course covers practical tools needed to organize and summarize data generated by students in their Master's thesis research. Course content will consist of statistical distributions, model fitting, randomization tests, nonparametric statistics, and multivariate analysis. Students will be taught how to program and execute advanced statistical analysis in the open source statistical software program "R" using example data sets and their own research data.

Restriction(s): Cannot receive credit in GBIO-7104 if already received credit in GESC-7613.

GBIO-7111 (0) Bioscience Thesis (Lecture) To participate in the Master of Science in Bioscience program students must register for this course in each year of their program. Registration in this course indicates students are undertaking a thesis project in an area of biosciences under the supervision and guidance of a Faculty member. The thesis project must include actual research, experimental and/or theoretical, that is beyond a literature review or analysis of existing data. Evaluation is based upon the successful completion and defense of a Master's level thesis. Permission to enroll is dependent on the availability of an Instructor in the student's field of interest and approval of the Biology Department Graduate Coordinator for the MSc Bioscience program and the Faculty of Graduate Studies at the University of Winnipeg. Registration in this course is mandatory during the student's residency in the program.

GBIO-7201 (3) Molecular Biotechnology (3 hrs Lecture) This course equips Graduate students with theoretical and hands on experience. Topics include, but are not limited to, techniques used for DNA, RNA and protein isolation, gel electrophoresis, molecular markers and DNA fingerprinting, Southern and Northern hybridization, the polymerase chain reaction (PCR), and DNA sequencing. The application of these techniques in diagnostics (e.g., DNA fingerprinting, pathogen typing, species identification) is emphasized).

GBIO-7304 (3) Current Topics in Genetics and Genomics (3 hrs Lecture) The field of Genetics has experienced fast changes during the last years. Advances in molecular techniques and computer sciences makes it feasible to address old questions and raise new ones. A consequence of this advancement is the birth of Genomics and the evolution of the field into structural, functional and comparative genomics. This course is a combination of readings, oral presentations and discussions that examine current topics in the field of genetics and genomics. A major aspect of the course will be student participation through presentations and discussion of the current literature.

GBIO-7402 (3) Current Topics in Ecology (Lecture) This course involves students in the current topics in ecology. The instructor presents a range of potential topics from which students can select those of interest. Students may also offer their own topics for presentation. Students will

present seminars to the class on chosen topics, and their evaluation will be based upon class participation, and will involve peer assessment. This course is also open to 4th year Biology Honours students. Additional in-depth work is required to receive credit at the 7000 level.

GBIO-7614 (3) Critical Environmental Issues (Lecture)

This course examines current issues of controversy and public concern in environmental studies and environmental science. The content varies from year to year and students should consult the Environmental Studies department for a more detailed description of topic areas in terms in which the course is offered.

Doctor of Philosophy in Bioscience and Policy

GBIO-9101 (1) Seminars in Biology (PhD) Year 1

(Lecture with variable meeting hours) This course consists primarily of preparing a proposal and literature review on the student's research topic, and presenting a research proposal seminar. Students will also participate in peer-evaluation and provide feedback on each other's seminars and receive instruction on communicating science to a range of audiences. Students will also summarize and critique several seminars from the Biology Department Seminar Series. Attendance is mandatory during Year 1 of students' programs.

GBIO-9102 (1) Seminars in Biology (PhD) Year 2

(Lecture with variable meeting hours) This course, for second-year PhD students, consists primarily of preparing a mock public presentation on a topic related to the student's research topic. Students will participate in peer-evaluation and provide feedback on each other's seminars and receive instruction on communicating science to a range of audiences. Students will also summarize and critique several seminars from the Biology Department Seminar Series. Attendance is mandatory during Year 2 of students' programs.

Requisite Courses: Successful completion of GBIO-9101 OR registered concurrently.

GBIO-9103 (1) Seminars in Biology (PhD) Year 3

(Lecture with variable meeting hours) This course, for third-year PhD students, consists primarily of seminars on students' research topics. Students will give a Research Presentation with results and conclusions from their thesis research, and an idea of future directions. Students will also summarize and critique several seminars from the Biology Department Seminar Series and lead at least two public outreach talks or workshops by the end of the year as a part of the Let's Talk Science program, the Skywalk Lecture Series or another outreach opportunity.

Requisite Courses: Successful completion of GBIO-9101 and GBIO-9102 OR registered concurrently.

GBIO-9111 (0) Bioscience PhD Thesis (Project / Thesis with variable meeting hours) Students must register for this course in each year of their program. Registration indicates that students are undertaking a thesis project in Bioscience under the supervision of a Faculty member. The thesis project should make a novel contribution to the research field and include experimental and/or theoretical research beyond a literature review or analysis of existing data. Evaluation is based on completion and defense of a PhD Thesis. Permission to enrol depends on availability of a Supervisor in the student's field and approval of the Bioscience Program Chair and the Faculty of Graduate Studies.

GBIO-9201 (0) Bioscience PhD Candidacy Exam Year 1

(Project / Thesis with variable meeting hours) Toward the end of Year 1, the student's Supervisory Committee will conduct an oral examination to evaluate the student's knowledge in areas of Bioscience relevant to the student's

Thesis Proposal (prepared for GBIO-9101 - Seminars in Biology (PhD)).

GBIO-9202 (0) Bioscience PhD Candidacy Exam Year 2

(Project / Thesis with variable meeting hours) The student will write and present a detailed literature review of current understanding in an area of Bioscience selected in consultation with the Supervisory Committee. The Supervisory Committee will then conduct an oral examination of the student's knowledge in the area of the literature review. To be completed by all Bioscience and Policy PhD students within 2 years of starting the program.

Requisite Courses: Successful completion of GBIO-9201 OR registered concurrently.

Master of Arts Criminal Justice

GCJ-7101 (3) Conceptualizing Criminal Justice

(Seminar/Discussion) This course provides an overview of the history and theoretical infrastructure of the academic study of criminal justice. Students will be given an overview of the theoretical and philosophical development of the discipline and explore the history of academic studies of crime and justice in North America. The course emphasizes the major theoretical perspectives of criminal justice studies and their application to graduate level study of criminal law and the court process; policing and security; and punishment and corrections.

GCJ-7102 (3) Advances in Qualitative and Visual Methods

(Seminar/Discussion) This course explores advances in qualitative inquiry including visual studies. This course covers the full cycle of a qualitative research project. Students will develop (1) critical skills in interpreting reports of qualitative studies, (2) an understanding of the core methods of qualitative data collection and analysis, as well as (3) experience in analyzing and interpreting qualitative data. This course addresses research techniques from the fields of visual studies and social media studies. This course is designed for students in criminal justice studies but could appeal to anyone in the social sciences or humanities.

GCJ-7105 (3) Youth and the Criminal Justice System

(Seminar/Discussion) This course provides a critical examination of systemic problems and policy issues in youth justice. The course evaluates the effectiveness of current criminal justice legal reforms, interventions, treatment programs, and policies aimed at youth. Specific topics include public discourse on youth crime and justice, the social construction of adolescents involved with the youth justice system, the interface of corollary systems of child welfare and mental health, the administration of youth justice systems and a comparative analysis of the policy choices made in developing frameworks for responding to youth justice.

Restriction(s): Students may not have credit for this course and CJ-4105.

GCJ-7116 (3) Program and Policy Evaluation (Lecture | Lab) This course examines methodologies for the formal assessment of social programs using quantitative and qualitative methods of inquiry including survey, interview, observation and case study techniques. The political and social processes framing evaluation research are also discussed.

Restriction(s): Students may not have credit for this course and CJ-4116.

Requisite Courses: Take GCJ-7116L.

GCJ-7117 (3) Research Design (Seminar/Discussion)

This course examines the research process, including frameworks for inquiry, phases of conceptualization, choice of indicators, sampling, data collection, and analysis. Students will learn how to plan criminal justice inquiry, formulate a research question, relate the question

to existing theory and existing research, and determine appropriate data collection and analysis strategies. This course offers an integrated approach to the problems involved in design of research, analysis of data, as well as research ethics.

GCJ-7130 (3) Constitutional Issues in Criminal Law

(Seminar/Discussion) Drawing on the principles of the law of police investigation and surveillance theory, this course examines the latest developments in the Supreme Court of Canada's police powers jurisprudence. Recent cases will include those dealing with Charter guarantees related to rights to silence, counsel, privacy, freedom from unlawful search, detention and arrest and, also, exclusion of evidence will be discussed. The course will also examine the constitutional development of principles of fundamental justice in Canada unique to the criminal law.

GCJ-7140 (3) Criminal Justice Policy

(Seminar/Discussion) The course will engage students in critical and controversial policy debates such as distributive and procedural justice, use of evidence-based practice, police oversight, technology and surveillance in the criminal justice system, regulation of the sex trade, regulation of illicit drugs, problem solving courts, rehabilitation models, use of custody and sex offender notification.

GCJ-7300 (3) Critical Criminal Justice Theory

(Seminar/Discussion) An in-depth examination of original works in social, political, and cultural theory are used to understand and make sense of criminal justice policy and practice. The course focuses on key themes and canonical works across the social sciences and justice studies. Surveys major perspectives in, and critical responses to, classical and contemporary theories, including post-structuralism, (post-) Marxism, and (post-) feminism. Topics including trends in the social sciences and justice studies; the objective world versus social construction; the nature of justice; agency versus structure; the relation between research and praxis; knowledge and power, may be considered.

Restriction(s): Students may not have credit for this course and CJ-4300.

GCJ-7400 (3) Selected Topics in Criminal Justice

(Seminar/Discussion) This course examines specific topics in criminal justice at the graduate level. Students should consult the department regarding potential offerings in a given year.

GCJ-7401 (3) Directed Readings (Directed Reading)

In this course, criminal justice readings and assignments are arranged between an individual student and department faculty member. Topics may not duplicate regular course offerings in criminal justice or other departments. A course outline with assignments, meeting schedule between the instructor and student, written assignments and course weights must be approved in advance. This course is an

opportunity to explore a specialized topic in the interdisciplinary context of the field. Restrictions(s): Course outline must be pre-approved by the Departmental Graduate Committee.

GCJ-7500 (3) Colonialism and Criminal Justice in Canada (Lecture) This seminar course explores the relationship between settler colonialism and the Criminal Justice system in Canada. The course considers the criminal justice system as one among many interlocking systems that both shape the life chances of Indigenous peoples in the present, and continue to be shaped by Indigenous peoples' resistance to attempted domination. Topics include Indigenous legal systems, deaths in custody, policing, murdered and missing Indigenous women and girls, social work, resistance and resurgence movements, and restorative justice. Emphasis is placed on reading Indigenous scholars from across Turtle Island and cultivating tools to critically engage with hegemonic narratives about Indigenous criminalization.

Restriction(s): Students may not have credit for this course and CJ-4500.

GCJ-7654 (3) Interdisciplinary Perspectives on Preventing Wrongful Convictions (Seminar/Discussion)

This course, co-taught between UW Criminal Justice and UM Faculty of Law, uses an interdisciplinary lens to examine the issue of wrongful convictions in Canada. A combination of legal and social-science perspectives and readings will be used to identify how and why wrongful convictions take place and to discuss evidence-based remedies to reduce their likelihood. Topics may include the roles of: eyewitness memory, false confessions, plea bargaining, forensic biases, prosecutors and defence counsel, misleading scientific evidence, and unsavoury Crown witnesses.

Restriction(s): Students may not have credit for this course and CJ-4654.

GCJ-7801 (3) Knowledge Synthesis Project (Project / Thesis) The Knowledge Synthesis Project (KSP) is a piece of original writing that synthesizes an existing body of knowledge on a topic/area, submitted in fulfillment of the requirements for the course-based criminal justice stream. Examples of KSPs include, but are not limited to: systematic reviews, scoping reviews, and meta-analyses. The topic and type of KSP must be approved by a student's faculty supervisor. The intent of this course is for students to build on skills from their courses, choose a criminal justice topic area of interest, and complete a KSP. Completion of the course requires a written report and an oral presentation.

GCJ-7900 (9) Criminal Justice Master's Thesis

(Project / Thesis) Students choose a research topic in consultation with a Thesis supervisor and write a Thesis paper. The Thesis is evaluated by a Thesis Committee and then presented in an oral defense.

Master of Arts Cultural Studies

GCST-7103 (3) Research Methods & Practice

(Seminar/Discussion) This course aims to equip students with an understanding of advanced research skills and methodologies that are relevant to the critical, academic, and political project of cultural studies. It also includes discussions of some of the contemporary ethical, political, and material challenges (and potentialities) affecting the work of scholars, artists, and intellectuals in 21st Century academia (as well as other public institutions of knowledge production and dissemination).

Restriction(s): May not hold credit for this course and GENG-7103.

GCST-7104 (3) Concepts Cultural Studies

(Seminar/Discussion) This course is a historical and theoretical survey of cultural studies, from the field's emergence as an outgrowth of the British New Left in the 1950s to the study of emergent cultural forms and practices in our globalized and post-industrial present. It includes readings in theory and criticism, each complemented by class discussion about various cultural practices that have the potential to illuminate the radically contextual project of cultural studies. Key concepts covered may include: ideology and hegemony; the articulations of race, gender, and class; colonialism and diasporic identities; popular culture and the politics of taste; museums and curatorial practices.

Restriction(s): Students cannot hold credit in GCST-7104 if previously received credit in GENG/GCST-7112 or GENG-7104.

GCST-7105 (3) Cultural Studies and Curatorial

Practices Capstone Seminar (Seminar/Discussion) This capstone seminar consolidates Master of Arts in Cultural Studies' students' learning acquisitions and experiences, and offers a transitional experience into a variety of post-graduation fields. Students build their capacity for advanced study and application through developing high capacity skills in research, dissemination, professionalization, peer-engagement, and portfolio development. Through regular seminar meetings students work in teams or subcommittees in all aspects of professional events or symposium planning, from programming and financing to advertising and scheduling. Course outcomes are suited to students in both streams of the program (Texts & Cultures and Curatorial Practices).

Restriction(s): May not hold credit for this course and GENG-7105.

GCST-7112 (3) Topics in Cultural Theory

(Seminar/Discussion) These courses focus on such questions as: What constitutes a text? How do some texts come to be valued over others? How do questions of value relate to the distribution of power and authority? How do social differences such as race, ethnicity, class, and gender shape and unsettle cultural production and consumption over time? How may 'cultural theory' and 'critical theory' be situated in relation to one another?

Restriction(s): May not hold credit for this course and

GENG-7112 or GENG/GCST-7104.

GCST-7122 (3 or 6) Special Studies in Cultural

Theories And Practices (Seminar/Discussion) These courses encourage students to consult with interested faculty members from English and cognate departments to develop reading courses related to particular areas of cultural theories and practices. Individualized programs for completing the required course work as well as independent study projects are submitted to be approved by the English Graduate Program Committee. Cognate departments may include the following, among others: Anthropology; Politics; Sociology; Philosophy; History; Rhetoric, Writing, and Communications; and Women's and Gender Studies.

Restriction(s): May not hold credit for this course and GENG-7122.

GCST-7160 (3) Topics in Cultures of Young People

(Seminar/Discussion) These courses focus on cultural productions by, for, and about young people, and take up such questions as: How has the subject category of "the child" been used to define ideas of class, nation, community, and the self in different times and places? How do print, digital, filmic, television, theatre, and performance texts, texts of material culture, and oral texts take up and frame these debates? What are the political uses of texts designed for young readers? How does the participation of young people in such movements as Occupy and school climate strikes confirm and confound age-based notions of identity?

Restriction(s): May not hold credit for this course and GENG-7160.

GCST-7740 (3) Topics in Local, National, and Global

Cultures (Seminar/Discussion) These courses focus on such topics as: the implications of globalization for Canadian and Indigenous texts and identities; the potential for dialogue and collaboration across nations and cultures; the ways in which local histories and contexts engender different relations to the global; and the language of human rights.

Restriction(s): May not hold credit for this course and GENG-7740.

GCST-7780 (3) Topics in Critical Race Studies

(Seminar/Discussion) These courses focus on topics related to Critical Race Studies, such as the discursive and political making of 'race', cultural representations of communities as racialized and of people as racialized subjects, and theoretical analyses of race and ethnicity. Students are exposed to foundational as well as newer critical perspectives. Specific focus depends on the instructor.

GCST-7802 (3) The Idea of the Museum

(Seminar/Discussion) Museums and galleries do more than collect and exhibit objects; they participate in the packaging and presentation of the materials and ideas of culture,

engaging with a diverse public and multiple stakeholders. This course examines the collecting, exhibiting and presentation practices of European and North American museums and galleries over the last two centuries with the goal of understanding their evolving role. We explore how museums developed in response to the ideas of collecting and connoisseurship, and the disciplines of art history and museology, and how these institutions reflect or relate to different ideologies, such as nationalism and colonialism.

Restriction(s): Students may not hold credit for this course and GHIST-7830 (6 credit hour) or GHIST-7802 (3 credit hour) or GENG-7821.

GCST-7811 (3) Topics in Manuscript, Print, and Digital Cultures (Seminar/Discussion) These courses focus on how technological, cultural, and socio-political factors impact such topics as: print or digital textual production, distribution, and consumption; archiving and public memory; orality and writing; popular cultures and reading publics; adaptation and intermediality; texts and paratexts; and, new media technologies and cultural practices.

Restriction(s): May not hold credit for this course and GENG-7811.

GCST-7820 (3) Topics in Visual Cultures

(Seminar/Discussion) These courses focus on the cultural construction of the visual in the arts, media, and everyday life and encourage critical engagement with various theories of seeing. Possible topics of investigation include comics and graphic narratives; illustrated books; film, television, and internet narratives; historical and contemporary visual and/or performing arts; and the history of collecting and museums.

Restriction(s): May not hold credit for this course and GENG-7820.

GCST-7831 (6) Practicum in Curatorial Studies

(Seminar/Discussion) This course combines the theory and practice of curatorial work, public history, material cultures, and experiential learning for students interested in achieving a university credit by working and training with a local museum or art gallery. Current curatorial approaches are highlighted, including curatorial pedagogy and praxis that prioritizes decolonization, Indigenization and the "paracuratorial." As well, students are taught foundational writing skills for gallery and museum work, and will be introduced to the handling of objects, exhibition layout, and design. The Practicum provides opportunities to explore a range of placements with host institutions in order to learn about being a curator.

Restriction(s): Students may not hold credit for this course and GHIST-7831 or GENG-7131.

GCST-7840 (3) Topics in Textual and Literary Studies

(Seminar/Discussion) These courses focus on such topics as: concepts and definitions of literature and texts; historical, theoretical, and practical contexts of literary inquiry; close attention to critical vocabularies and methodologies of literary interpretation; specific literary periods, genres, or authors; how production of literature, and access to texts deemed "literary," intersects with broader sociocultural categories such as gender, race, sexuality, ability, and economic class; and study of the real

and perceived audiences of texts, and contexts of literary creation and reception.

GCST-7850 (3) Topics in Media and Communication Studies

(Seminar/Discussion) These courses focus on the study of various media, including old and new media, from the rise of photography and the newspaper to the advent of cinema, radio, television, the computer, and digital media more broadly. Courses may combine historical studies of media with analyses of media cultures and ideologies, and the way that media and popular culture impact the meaning-making practices of modern and postmodern societies, subjectivities, and identities. As an interdisciplinary field, students can expect to learn about media studies using a range of methodologies based in rhetoric and literary theory, art history, critical political economy, and sociology.

GCST-7851 (3) Topics in Curatorial Practices

(Seminar/Discussion) This seminar focuses on specific issues related to art history, museum studies, and curatorial practices. The nature and range of the topics depend upon the instructor's expertise, and can include theories on display, materiality, collecting, public history and the creation of art from different points of view. Students are exposed to art objects and current theoretical approaches.

GCST-7901 (3) Topics in Genders and Sexualities

(Seminar/Discussion) This course focuses on topics related to gender and/or sexuality. Topics will vary from year to year but might include various aspects of cultural production (literature, media, film, art, popular culture) as it relates to gender and sexuality; queer theory; trans studies; Two-Spirit identity and culture; historical understandings of gender and sexuality; feminist theory; and feminist cultural production.

Restriction(s): May not hold credit for this course and GENG-7901.

Master's in Development Practice

GDP-7700 (1.5) Orientation to Master's in

Development Practice (Lecture) The mandatory course provides an immersion orientation in an indigenous community for first year MDP students prior to first year course work. Students interact with community members who provide mini-lectures and demonstrations of problems, concerns, and issues of relevance to the indigenous community. Guest lectures provide additional material introducing issues in indigenous development practice locally and globally. The course will be graded on a Pass/Fail basis.

GDP-7702 (3) Human Security and Indigenous

Knowledge (Lecture) This course seeks to bring together two frameworks, human security and traditional indigenous knowledge and cultures, to examine the practice of development. Students study the UN Declaration on the Rights of Indigenous peoples; investigate basic concepts of human security; and explore specific case studies and issues. Examples of topics include: human rights, Indigenous peoples and extractive industries, urban sustainable development, Arctic development, and the legal empowerment of the poor.

GDP-7703 (3) Indigenous Education in an Era of

Globalization (Lecture) This course examines various Indigenous learning systems and their adaptations within a global world. As societies become more integrated through globalization, traditional Indigenous learning systems are being challenged as to their viability. In response, Indigenous peoples are adapting their learning systems to meet the challenges that are occurring to the social fabric of their cultures. More generally, this course brings Indigenous perspectives on education to the analysis of globalization.

Restriction(s): Cannot receive credit in GDP-7703 if already received credit in GIS-7703 or IS-4703.

GDP-7704 (3) Health and Sustainable Development

(Lecture) This course provides non-health experts with basic population health concepts within an Indigenous context. The course explores social, cultural, economic and political forces shaping health ideology for Indigenous populations. Health topics that are addressed specifically include maternal and child health including birthing practices, chronic disease such as Type II Diabetes, and infectious diseases such as Tuberculosis, and food security. Students explore strategies that Indigenous communities have employed to move towards self-determination in health care, in the collection of health data, policy changes, and the development of programs that meet the unique health needs of Indigenous communities in Canada and internationally.

GDP-7706 (3) Leadership and Human Resource

Management (Lecture) This course addresses leadership and human resource management alongside key concepts of financial management, including elaboration of budgets, grant proposals, and corresponding activity plans.

Students explore concepts of commodities management, integrating lessons from real-world challenges of production management, procurement, and distribution of required resources (for example, medical supplies); develop leadership skills for human resource management, including the ability to mentor and inspire co-workers and subordinates; and gain knowledge of relevant human resource policies and procedures. Students explore procurement and logistical processes in resource-poor settings around the world and in Indigenous contexts, and the practice of effective leadership in these settings.

GDP-7707 (3) Indigenous Economic Development

(Lecture) This course considers different pathways to economic development for indigenous peoples. In many countries around the world, indigenous groups are excluded from the benefits of modern market-based economies. This course considers how public policy might foster economic development among indigenous groups, either through more complete integration into market economies, as workers and entrepreneurs, or through alternative models that emphasize economic self-determination and self-governance through community economic development. Students will be introduced to microeconomic theory as a means of understanding the strengths and limitations of market economies. A number of case studies will be used to illustrate best practices for development.

GDP-7709 (6) Indigenous Thought and Worldviews:

Sustainable Understandings (Lecture) This course brings the student into ceremonies, discussions, research, and conceptualizations exercises which enable them to begin understanding indigenous thought and worldviews, particularly of the Anishinaabe and the Dakota. The course provides tools and opportunities for students to free themselves from ethnocentric thinking while being educated in the nodal thinking of the Anishinaabe people. The course is experiential and follows the teachings of the annual round of seasonal activities. The course helps the student gain insights into the core concepts of sustainable development, global sustainability, earth stewardship, and self-determination through indigenous perspectives.

GDP-7711 (3) Macroeconomic Policy and Sustainable

Development (Lecture) This course considers how economic theory improves the understanding of issues facing developing communities. Its focus is on macroeconomics; however, lectures also discuss how macroeconomic issues may impact local economies. The course introduces students to a simple model of the determination of national income; examines issues of economic growth, debt, financial crises and international trade; and analyzes policy instruments for ensuring that economic development is environmentally sustainable.

GDP-7712 (1.5) Poverty and Human Rights (Lecture)

This course investigates issues of poverty and human rights among Indigenous peoples and communities. The

course engages students in a problem- and group-based approach to understanding and addressing poverty and human rights by applying these concepts in a major case study.

GDP-7713 (3) Business Planning in Indigenous Communities (Lecture) In many Indigenous communities, people are turning to new ventures as a way to create income and as a way to meet community needs. This course will introduce the basics of innovation and help students understand the stages involved: from clarifying the idea to planning and implementation. Students complete a business plan during the course, including marketing, budgeting, and strategic and feasibility planning within the business plan as well as the creation of financial projections. Students are also introduced to the basics of not-for-profit management and corporate social responsibility.

GDP-7714 (3) Canadian Field Placement in Development Practice

(Apprenticeship/Internship/Practicum) The field placement allows students to ground their academic learning within the auspices of an organization or community. The field placement involves voluntary work and provides hands-on experience in the area of Indigenous development. Students, in consultation with the MDP Director, select a Canadian field placement site and complete the equivalent of ten to twelve weeks of work, usually during the summer months. Students produce a field placement portfolio, including a report and public presentation. Required components of the include the Field Placement Student Preparation Sessions and the De-Brief sessions organized by the MDP.

GDP-7715 (3) International Field Placement in Development Practice

(Apprenticeship/Internship/Practicum) The field placement allows students to ground their academic learning within the auspices of an organization or community. The field placement involves voluntary work and provides hands-on experience in the area of Indigenous development. Students, in consultation with the MDP Director, select an International field placement site and complete the equivalent of ten to twelve weeks of work, usually during the summer months. Students produce a field placement portfolio, including a report and public presentation. Required components of the include the Field Placement Student Preparation Sessions and the De-Brief sessions organized by the MDP.

GDP-7716 (3) Indigenous Peoples, Globalization and Development (Lecture) Indigenous peoples today are enmeshed in the expanding modern economy, subject to the pressures of both market and government. More and more Indigenous communities are rejecting the traditional capitalist vision of development as human and environmental exploitation and focusing on new types of local development projects. This course analyzes some of the conflicts associated with traditional development projects in Indigenous communities. Taking Indigenous peoples as actors as its starting point, the class examines innovations in Indigenous economic development that are

culturally respectful, environmentally responsible and that build a new sense of community.

Restriction(s): Cannot receive credit in GDP-7716 if already received credit in IS-4023 or GIS-7023.

GDP-7717 (3) Indigenous Self-Determination and Self-Government (Lecture) This course brings to the academy a pivotal concept for the present and future of Indigenous peoples. How Indigenous peoples face and deal with colonization, imperialism, and globalization will depend upon the critical understanding and realizations of self-determination. The legal, political, social, and cultural connotations around self-determination for Indigenous peoples are considered. The course is focused not only on theoretical considerations but is designed to bring issues of self-determination into the collective and individuals lives of those who identify themselves with the concerns of Indigenous peoples.

Restriction(s): Cannot receive credit in GDP-7717 if already received credit in GIS-7020 or IS-4020.

GDP-7721 (3) Strategic Planning and Project Management

(Lecture) This course examines theories and methods of strategic planning and project management in community development, with a particular focus on Indigenous peoples and Indigenous planning methods. The course highlights methods that are participatory, community-based and relevant for and applicable to domestic and international Indigenous communities. The course examines the stages of the project cycle: problem identification, analysis, program design and implementation. Students acquire skills necessary for conceptualizing and implementing international or domestic projects undertaken by nongovernmental organizations: needs assessment, goal and purpose identification, formulation of logframe, workplan and budget, and preparation of a funding proposal.

GDP-7722 (3) Indigenous Research Methods

(Lecture) This course provides a review of the movement towards the decolonization of the Western model of research and the revitalization of indigenous research frameworks and methodologies. The course also offers analysis of Western research methods and both their histories in colonial practices as well as their potential usefulness in indigenous community-based development research and applications. The unique issues and principles involving ethical research in Indigenous communities are explored. The course also includes an overview of Indigenous control of their own research and ethical review processes related to development issues, programs, and implementation.

GDP-7723 (3) Quantitative Research Methods

(Lecture) This course involves an advanced study of the techniques and methodology of quantitative research. This course explores important methodological questions and provides an opportunity for students to gain firsthand experience of quantitative analysis using a variety of sophisticated techniques such as correlation and regression analysis, hypothesis testing, and ANOVA. The course is divided into three sections: descriptive statistics, hypothesis testing/inferential statistics, and data

modelling. Students are expected to demonstrate their understanding of the concepts learned theoretically and apply the statistical techniques to practical problems in the literature.

GDP-7724 (3) Indigenous Approaches to Evaluation: Theory and Practice (Lecture) In this experiential learning course, students are introduced to the purpose and practice of Indigenous evaluation, as well as some of the analytical tools used by evaluators, both Indigenous and mainstream. An Indigenous approach to evaluation is a strengths-based exercise. It is committed to respecting the community's values and traditional ways of knowing. Students will be given practical experiences in preparing data collection instruments, gathering data from program participants and other stakeholders, and interpreting the data. The course will also explore how an Indigenous approach to evaluation can be merged with the objectives of mainstream funders and other external stakeholders.

Restriction(s): Cannot receive credit in GDP-7724 if already received credit in GPOL-7341.

Requisite Courses: Successful completion of GDP-7722.

GDP-7730 (3) Human Rights Approaches to Health (Seminar/Discussion) This course identifies, locates and examines the complicated intersection between human rights and health in law, policy, and lived reality. Taught from a multi-disciplinary framework, the course analyzes the content, justiciability and realization of international right to health provisions and the meaning of these provisions in different cultural and socio-economic contexts. Through contemporary debates and case studies the course examines the interaction between various human rights approaches (Indigenous rights, cultural rights, right to development, environmental rights, women's rights) and health approaches (public health, global health, environmental health, social determinants of health).

Restriction(s): Cannot receive credit in GDP-7730 if already received credit in HR-4450.

GDP-7731 (3) Post-Conflict Truth, Memory, and Reconciliation (Seminar/Discussion) Truth-telling after war, genocide and the violent processes of colonization is a way forward to peace and reconciliation. This course looks at individual, collective and inter-generational trauma in affected societies. The role of memory is also explored, with particular emphasis on using memory to strengthen mechanisms for justice, human rights, and healing. Understanding reconciliation through community-based initiatives to formal legislated undertakings such as truth and reconciliation commissions are examined in depth.

Restriction(s): Cannot receive credit in GDP-7731 if already received credit in HR-4350 / GHR-4350 OR CRS-4350 / GCRS-4350.

GDP-7750 (3) Environment and Sustainability (Lecture) This course considers best practices in sustainable staples-based development, focusing on water, energy and mining. Topics include conceptual and methodological tools and frameworks associated with resource management, including impact assessment, meaningful engagement, community-based management, post approval practices and adaptive management. In critiquing current

practices, students reflect on innovations designed to begin the process of respecting inherent rights and Indigenous sovereignty in environmental decision-making processes.

Restriction(s): Cannot receive credit in GDP-7750 if already received credit in GESC-7522 or GEOG-4450 or ENV-4450.

GDP-7780 (1.5) Seminar in Development Practice - A (Variable Meeting Hours) This course enables students to interact with key leaders (scholars and practitioners) in the field of development practice. The emphasis is on enabling the entire MDP cohort of students to meet, as the opportunity presents itself, with leaders in development, and in particular, indigenous development. The goal is to expose students, in an integrated learning environment, to conceptual and practical issues and innovative development practices as presented by a variety of speakers who present to and lead discussions with MDP students.

Restriction(s): Cannot receive credit in GDP-7780 if already received credit in GDP-7790.

GDP-7785 (1.5) Seminar in Development Practice - B (Variable Meeting Hours) This course enables students to interact with key leaders (scholars and practitioners) in the field of development practice. The emphasis is on enabling the entire MDP cohort of students to meet, as the opportunity presents itself, with leaders in development, and in particular, indigenous development. The goal is to expose students, in an integrated learning environment, to conceptual and practical issues and innovative development practices as presented by a variety of speakers who present to and lead discussions with MDP students.

Restriction(s): Cannot receive credit in GDP-7785 if already received credit in GDP-7790.

Requisite Courses: Successful completion of GDP-7780.

GDP-7791 (1.5 or 6) Special Topics in Indigenous Development (Seminar/Discussion with variable meeting hours) The nature and range of topics will vary, depending on the expertise of the instructor. Potential topics include MMIWG, extractive industries, gender, human rights and climate change. Students may consult the MOP Coordinator or Global College web site for information about specific iterations of the course. The course may be repeated for credit when topic varies. Can be taken for 1.5 / 3 / 6 credit hours.

Restriction(s): Cannot receive credit in GDP-7791 if already received credit in GANTH-4102 / ANTH-4102 or HR-4650 / GHR-4650.

GDP-7792 (1.5 or 6) Directed Readings in Development Practice (Directed Reading with variable meeting hours) This course is an opportunity to explore in greater depth a topic in the interdisciplinary context of Indigenous sustainable development. In this course, readings and assignments are arranged between an individual student and the instructor depending on the student's interest and the instructor's knowledge-area expertise. This course may be repeated for credit when the topic varies. Can be taken for 1.5 / 3 / 6 credit hours.

GDP-7793 (6) Major Research Paper

(Seminar/Discussion with variable meeting hours) The Major Research Paper [MRP] is a piece of original writing based on primary research, submitted in fulfillment of the MDP Research stream. It is of roughly 35-40 pages in length. The student consults the Director of MDP to begin the process of selecting an Advisor for the MRP. The student meets with the Advisor and develops a topic for the paper. After the MRP is submitted, it is circulated to a second reader.

GDP-7794 (4.5) Indigenous Development in Practice:

Capstone (Seminar/Discussion with variable meeting hours) This course provides an opportunity for students to consider the nature of the discipline of Indigenous development and its relationship to dominant development discourse and practice. Students reflect upon their two terms of courses and one field placement, drawing insight from this into the relationship between theory and practice. Using key tools, resources and frameworks gained throughout the program, students are required, as a team, to address a real development challenge faced by a local organization in a major applied project that takes place over two semesters.

Restriction(s): Cannot receive credit in GDP-7794 if already received credit in GDP-7725.

Master of Arts, Master of Science, Master of Environment Environmental and Social Change

GESC-7101 (0) Graduate Thesis (Project / Thesis) To participate in the Master in Environmental and Social Change program, students must register for this course. Ongoing registration indicates students are undertaking a thesis project under the supervision and guidance of a faculty member. The thesis project must include actual research, experimental and/or theoretical, that is beyond a literature review or analysis of existing data, and make an original theoretical, methodological, or empirical contribution to knowledge. Permission to enroll is dependent on the availability and approval of a supervisor in the student's field of interest and approval of the MESC Graduate Program Committee Chair and the Faculty of Graduate Studies at The University of Winnipeg.

GESC-7102 (3) Interdisciplinary Seminars in Environmental and Social Change (Lecture) In this course, students are exposed to the current state of interdisciplinary research, knowledge and practice focused on environmental and social change. Through student- and faculty-led discussions, students investigate a breadth of concepts and methods used in the fields of environmental studies and sciences and human and physical geography. Students also produce a major paper that supports their thesis project.

GESC-7103 (3) Interdisciplinary Research Foundations (Lecture) This course investigates environmental and geographical research from an interdisciplinary perspective. This course examines the history and philosophy of research; research, society, and policy; interdisciplinary research methods; professional development for team-based collaborative research; research ethics, types of research designs and proposal development. The two main deliverables are: 1) an interdisciplinary team project focused on an environmental/geographical challenge/opportunity that applies and/or tests interdisciplinary problem-solving approaches, concepts, theory and/or methods, and 2) an individual thesis research proposal that would be suitable for submission to an external granting agency.

GESC-7511 (3) Environmental Studies and Human Geography: Approaches and Methods (Lecture) This course supports graduate students to develop advanced understanding of specialized approaches, applications and methods for Human Geography and Environmental Studies research. Students engage significant literature, major questions in theory and related method, and practical tools related to the course subject. Course content varies from year to year.

GESC-7521 (3) Topics in Environmental Studies and Human Geography (Lecture) This course introduces graduate students to a topical area within Human Geography and Environmental Studies. The focus may be defined by a thematic area of study, region, period, or complementary domains of study. Students become familiar with the major published literature, questions and debates,

theoretical considerations, practical applications, and current directions within the field. This course may be repeated for credit when the topic varies.

GESC-7522 (3) Environment and Sustainability (Lecture) This course considers best practices in sustainable staples-based development, focusing on water, energy and mining. Topics include conceptual and methodological tools and frameworks associated with resource management, including impact assessment, meaningful engagement, community-based management, post approval practices and adaptive management. In critiquing current practices, students reflect on innovations designed to begin the process of respecting inherent rights and Indigenous sovereignty in environmental decision-making processes.

Restriction(s): Cannot receive credit in GESC-7522 if already received credit in GDP-7750 or GEOG-4450 or ENV-4450.

GESC-7531 (3) Directed Studies in Environmental Studies and Human Geography (Directed Reading) This course allows the student to undertake an in-depth study on a specific topic area, theme, or research question of interest to fill in gaps in their knowledge, understand concepts, and sharpen their research skills. This is achieved through one or a combination of activities including, but not limited to, a critical review of literature, meta-analysis, developing/ testing methods, and conducting an independent directed research. The directed studies course may be in the general topic area of the student's thesis but should be distinct from their given research subject.

GESC-7611 (3) Environmental Science and Physical Geography: Approaches and Methods (Lecture) This course trains graduate students in a specialized research approach, technique or unique application utilized within physical geography and environmental sciences. Examples of methods may include: specialized lab or field techniques; statistical or data analysis methods; geospatial analysis; mathematical or computer-based modelling approaches; or other methods used in the study of physical geography and environmental sciences. The course content varies from year to year.

GESC-7612 (3) Geographic Information Analysis (G.I.A.) (Lecture) This course deals with advanced theory and applications within Geographic Information Analysis (G.I.A.) with a specific focus on spatial statistics and spatial analysis. Laboratory instruction provides the students with enhanced skills through exposure to the higher-level functions of industry standard GIS software.

GESC-7613 (3) Analysis of Biological Data (Lecture) This course provides a foundation for Bioscience graduate students in experimental design and methods to analyze their data sets using statistics and experimental design. The course covers practical tools needed to organize and

summarize data generated by students in their Master's thesis research. Course content will consist of statistical distributions, model fitting, randomization tests, nonparametric statistics, and multivariate analysis. Students will be taught how to program and execute advanced statistical analysis in the open source statistical software program "R" using example data sets and their own research data.

Restriction(s): Cannot receive credit in GESC-7613 if already received credit in GBIO-7104.

GESC-7621 (3) Topics in Environmental Science and Physical Geography (Lecture) This course introduces graduate students to a topical area within Physical Geography and Environmental Science. Situated within the broader context of environmental and social change, the focus may be defined by a thematic area of study, geographic focus, or applications of research to current environmental issues, for example. Students become familiar with the major published literature, questions and debates, theoretical considerations, practical applications, and current directions within the field. This course may be repeated for credit when the topic varies.

GESC-7631 (3) Directed Studies in Environmental Science and Physical Geography (Directed Reading) This course allows the student to undertake a study on a specific topic area, theme, or research question of interest to fill in gaps in their knowledge, understand concepts, and sharpen their research skills. This is achieved through one or a combination of activities including, but not limited to, a critical review of literature, meta-analysis, developing/testing methods, and conducting independent directed research. The directed studies course may be in the general topic area of the student's thesis but should be distinct from their given research subject.

Master of Arts History

GHIST-7001 (3) Selected Topics (Seminar/Discussion)

The content of this course varies. It is an advanced graduate seminar investigating topics that are not part of existing seminar courses. Students may repeat this course for credit if the topic varies. UM HIST 9648

Restriction(s): Cannot hold credit in both GHIST-7003 (6 credit hour) & GHIST-7001 (3 credit hour).

GHIST-7002 (3) Independent Study / Reading

(Seminar/Discussion) The content of this course varies. It is an advanced, independent reading/study course for graduate students on a topic of particular interest to the student. Normally this topic is not offered in existing courses. Students may repeat this course for credit if the topic varies. UM HIST 9130

GHIST-7003 (6) Selected Topics (Seminar/Discussion) A program of independent reading and/or research on selected topics, undertaken and arranged by a student in consultation with a prospective instructor, upon the approval of the Graduate Chair. UM HIST 9070

Restriction(s): Cannot hold credit in both GHIST-7003 (6 credit hour) & GHIST-7001 (3 credit hour).

GHIST-7004 (6) Special Studies in Social History

(Seminar/Discussion) A seminar course, the content of which will vary from year to year. UM HIST 9060

Restriction(s): Cannot hold credit in both GHIST-7004 (6 credit hour) & GHIST-7501 (3 credit hour).

GHIST-7005 (6) Historical Methods

(Seminar/Discussion) A seminar and workshop in historical method. The topics covered will encompass conventional research, analysis and writing, as well as the application of social science techniques to the analysis of historical problems, the fundamentals of data processing, and computer applications. UM HIST 9120

GHIST-7007 (6) History and Memory

(Seminar/Discussion) This seminar examines the field of memory studies through a comparative transnational survey with a focus on Canada, USA, and Germany. Memory studies asks not what happened in the past but rather how did individuals and groups remember the past? To answer this question, historians study oral history and other forms of informal communication, formal history education, museums, monuments, film, and photography. Students learn about major concepts such as historical consciousness; narrativity; collective memory; public history; culture and politics of history, including history wars. UM HIST 9642

Restriction(s): Cannot hold credit in both GHIST-7007 (6 credit hour) & GHIST-7904 (3 credit hour).

GHIST-7008 (6) History of the Atlantic World

(Seminar/Discussion) This seminar uses the concept of an Atlantic World to examine the connections between Europe, the Americas, and West Africa from the first wave of European overseas expansion (1450-1500) to the Age

of the Atlantic Revolutions (1775-1825). Topics may include the concept of Atlantic history, cultural contacts, religious exchanges, slavery and the slave trade, ecology and environment, commerce, migration, women and gender, and political ideas.

Restriction(s): Cannot hold credit in both GHIST-7008 (6 credit hour) & GHIST-7702 (3 credit hour).

GHIST-7010 (3) Sex, Race, and Gender in Early

Modern Europe (Seminar/Discussion) This seminar course deals with the history of ideas about humankind in early modern Europe (1500-1700). Through readings of primary and secondary sources, students examine the theoretical frameworks promulgated in the early modern period to classify human beings as 'the other,' particularly in reference to sexual, racial, and gendered categories. Within the broad themes of the Renaissance, the Reformations, and the Scientific Revolution, the course appraises European ideologies that sustained values of superiority and inferiority within and among European societies, the very constructions that Europeans took with them when they ventured abroad.

GHIST-7106 (6) Popular Radicalism in the Modern

World (Seminar/Discussion) Selected topics in the history of popular movements of social and political protest in the modern world. The course considers problems such as the development of radical theory and political practice, and the culture of dissent. UM HIST 7930

Restriction(s): Cannot hold credit in both GHIST-7106(6) & GHIST-7920 and the former 011.726.

GHIST-7107 (6) History and Cultural Studies

(Seminar/Discussion) A working guide to interdisciplinary approaches to the new field of Cultural Studies, examining its principal theoretical bases and existing and potential applications for the historian. UM HIST 7710

GHIST-7108 (6) Studies on Modern World History

(Seminar/Discussion) A seminar emphasizing the period since 1945. With the agreement of the instructor and depending on the needs of their degree programs, students may elect a reading or research option. UM HIST 9646

GHIST-7110 (3 or 6) Advanced Historical

Methodologies (Seminar/Discussion) This course provides advanced training in key methodologies for historical research and knowledge mobilization. The goal of the course is to familiarize students with the protocols, ethics, procedures, and best practices for historical research in a variety of settings. Students have opportunities to apply this training to specific projects and to develop a range of skills for historical research, alongside building critical understanding of various historical methodologies. Students also complete certification in key areas such as oral history and research ethics. UM HIST 7110

GHIST-7203 (6) Medieval Culture (Seminar/Discussion)

This seminar studies selected aspects of the cultural, social, and religious life during the Middle Ages. Topics may include the popular and scholarly knowledge and beliefs concerning the world and humanity, the transmission of this knowledge, the place of humankind in the world and the role of the Church in society. UM HIST 9644

Restriction(s): Cannot hold credit in both GHIST-7203 (6 credit hour) & GHIST-7205 (3 credit hour).

GHIST-7205 (3) Topics in Medieval Culture

(Seminar/Discussion) This seminar studies selected aspects of the cultural, social, and religious life during the Middle Ages. Topics may include the popular and scholarly knowledge and beliefs concerning the world and humanity, the transmission of this knowledge, the place of humankind in the world, and the role of the Church in society.

Restriction(s): Cannot hold credit in both GHIST-7203 (6 credit hour) & GHIST-7205 (3 credit hour).

GHIST-7207 (6) The Later Middle Ages

(Seminar/Discussion) Selected topics in economic, social, cultural, art and religious history of the later medieval world. UM HIST 9240

Restriction(s): Cannot hold credit in both GHIST-7207(6 credit hour) & GHIST-7470 and the former 011.743.

GHIST-7210 (6) Early Modern European History

(Seminar/Discussion) A seminar which studies early modern Europe from the perspectives of new approaches to historiography. UM HIST 9420

GHIST-7301 (6) Topics in Soviet History

(Seminar/Discussion) A study of selected problems in Soviet history from 1917 to 1991. UM HIST 9170

Restriction(s): Cannot hold credit in both GHIST-7301 (6 credit hour) & GHIST-7307 (3 credit hour).

GHIST-7302 (6) The Age of Enlightenment

(Seminar/Discussion) Emphasis on eighteenth century French intellectual history and its relationship to the origins and course of the French Revolution. Some reading knowledge of French is almost essential. UM HIST 7520

GHIST-7303 (3) Topics in Early Modern Women's History (1500 - 1700)

(Seminar/Discussion) A program of independent reading and/or research on selected topics, undertaken and arranged by a student in consultation with a prospective instructor, upon the approval of the Graduate Chair.

GHIST-7304 (6) Nineteenth-Century Britain (3 hrs

Seminar/Discussion) A study of British culture, politics, and diplomacy, 1830-1900. UM HIST 9230

GHIST-7307 (3) Topics in Soviet History

(Seminar/Discussion) A study of selected problems in Soviet history from 1917 to 1991.

Restriction(s): Cannot hold credit in both GHIST-7301 (6 credit hour) & GHIST-7307 (3 credit hour).

GHIST-7308 (3) Imperial Russia (Seminar/Discussion) A study of selected problems in Russian Imperial history covering the 18th and 19th centuries.

Restriction(s): Cannot hold credit in both GHIST-7310 (6 credit hour) & GHIST-7308 (3 credit hour).

GHIST-7309 (6) England in the Long Eighteenth

Century (Seminar/Discussion) This course examines selected themes in the history of England's long eighteenth century, from 1660 to 1840. Specific topics vary from year to year, but include the transformation of political culture, the consequences of war, the question of national identities, the emergence of commercial society and the changes in social structure. UM HIST 7740

GHIST-7311 (6) Reading Seminar in British History

(Seminar/Discussion) This course is a detailed examination of selected topics and problems in British history. Topics and content vary from year to year. UM HIST 7220

GHIST-7501 (3) Special Studies in Social History

(Seminar/Discussion) A seminar course, the content of which will vary from year to year.

Restriction(s): Cannot hold credit in both GHIST-7004 (6 credit hour) & GHIST-7501 (3 credit hour).

GHIST-7502 (3) Studies in Canadian History

(Seminar/Discussion) This seminar will focus on social, intellectual, political, and economic themes with emphasis on the western experience. Specific topics will vary from year to year depending upon the interests of the instructors. UM HIST 9672

Restriction(s): Cannot hold credit in both GHIST-7517 (6 credit hour with title - "Years: 1870-1919") or the former GHIST-7670 & GHIST-7502 (3 credit hour).

GHIST-7503 (6) History of Western Canada

(Seminar/Discussion) A research course in western Canadian history. The range of subjects will vary from year to year depending on the interest of the students. The subjects range from the fur trade to modern political, social, and economic issues. UM HIST 9050

GHIST-7504 (3) Gender History in Canada

(Seminar/Discussion) This course explores the roles, images, and experiences of masculinity and femininity in the past. The course familiarizes students with the changing theoretical and historiographical terrain of gender history. It draws on the international literature but focuses on the history of gender in Canada, and examines how historians analyze masculinity, femininity, the family, sexuality, politics, race/ethnicity, moral regulation, class, nation and colonialism.

Restriction(s): Cannot hold credit in both GHIST-7507 (6 credit hour) & GHIST-7504 (3 credit hour).

GHIST-7507 (6) Gender History in Canada

(Seminar/Discussion) This course explores the roles, images, and experiences of masculinity and femininity in the past. The course familiarizes students with the changing theoretical and historiographical terrain of gender history. It draws on the international literature but focuses on the history of gender in Canada, and examines how historians analyze masculinity, femininity, the family, sexuality, politics, race/ethnicity, moral regulation, class, nation and colonialism. UM HIST 9090

Restriction(s): Cannot hold credit in both GHIST-7507 (6 credit hour) & GHIST-7504 (3 credit hour).

GHIST-7508 (6) Social History of Health and Medicine in Modern Canada (Seminar/Discussion) The course explores the history of health and health care in Canada, with a focus on the late 19th and 20th century. Topics include colonization, infectious disease and aboriginal health; the evolution of the medical and nursing professions; the emergence of the modern hospital; mental health; psychiatry and the asylum; cancer; alternative therapies; childbirth; health and old age; and health and the state. Analytical categories of race, ethnicity, class, and gender are used throughout the class. UM HIST 7640

GHIST-7509 (6) Reading Seminar in Canadian History, 1860 to Present (Seminar/Discussion) While the specific course content may vary from year to year, the general approach shall be to ensure a broad sampling of the secondary literature in Canadian history. Political, social and economic themes will be emphasized and particular concern shall be taken with historiographical controversy. UM HIST 7290

GHIST-7510 (6) Northern Historical Studies (Seminar/Discussion) This course is based upon a number of studies of various aspects of the North. Particular emphasis is given to the North in relation to the fur trade, exploration, and Canadian development. UM HIST 9320

GHIST-7512 (6) Indigenous History: Advanced Studies (Seminar/Discussion) This history course explores selected topics, theory, methods, and approaches in Indigenous history in the North American Context. The geographic and temporal focus of the course may vary each time it is offered. Topics may include: state-run healthcare, education and child welfare institutions, legal regulation, family and kinship, land and resources, resistance movements and activism, colonial violence and genocide, monuments, commemoration and public history, religion and spirituality, and Indigenous urban history. The course addresses these topics alongside broader themes and concepts from Indigenous Studies and History, and evaluate sources and methods used to interpret Indigenous history.

Restriction(s): Cannot hold credit in both GHIST-7512 (6 credit hour) & GHIST-7513 (3 credit hour).

GHIST-7513 (3) Indigenous History: Advanced Studies (Seminar/Discussion) This history course explores selected topics, theory, methods, and approaches in Indigenous history in the North American Context. The geographic and temporal focus of the course may vary each time it is offered. Topics may include: state-run healthcare, education and child welfare institutions, legal regulation, family and kinship, land and resources, resistance movements and activism, colonial violence and genocide, monuments, commemoration and public history, religion and spirituality, and Indigenous urban history. The course addresses these topics alongside broader themes and concepts from Indigenous Studies and History, and evaluate sources and methods used to interpret Indigenous history. UM HIST 9676

Restriction(s): Cannot hold credit in both GHIST-7512 (6 credit hour) & GHIST-7513 (3 credit hour).

GHIST-7517 (6) Studies in Canadian History (Seminar/Discussion) This seminar addresses select themes in the study of Canadian history. The specific topic of the seminar is set by the instructor each year. This course may be repeated for credit when the topic varies. **Note:** This course was previously offered under the title "Studies in Canadian History: 1870 - 1919". UM HIST 9610

GHIST-7606 (6) State and Society in Latin America (Seminar/Discussion) Readings focus on state/society relations in the history of Latin America since colonial times. After considering different theoretical approaches, the course analyzes recent works that cover different historical periods, countries, issues, and social actors. UM HIST 7240

GHIST-7609 (6) Studies in United States History (Seminar/Discussion) This course explores topics in the study of United States history. The temporal or thematic focus of the course varies. Topics may include intellectual or cultural history, protest and activist movements, settler colonialism and decolonization, diaspora and immigration, gender and sexuality, or race and racism in the U.S. context.

Note: This course was previously offered under the title "Studies in American History Since 1877". UM HIST 9460

GHIST-7701 (6) Modern Latin America (Seminar/Discussion) An examination of selected themes such as economic and social change, political modernization, and external influences and intervention in Latin America during the nineteenth and twentieth centuries. UM HIST 9614

Restriction(s): Cannot hold credit in both GHIST-7701 (6 credit hour) & GHIST-7706 (3 credit hour).

GHIST-7702 (3) History of the Atlantic World (Seminar/Discussion) This seminar uses the concept of an Atlantic World to examine the connections between Europe, the Americas, and West Africa from the first wave of European overseas expansion (1450-1500) to the Age of the Revolutions (1775-1825). Topics may include the concept of Atlantic history, cultural contacts, religious exchanges, slavery and the slave trade, ecology and environment, commerce, migration, women and gender, and political ideas. UM HIST 9650

Restriction(s): Cannot hold credit in both GHIST 7008 (6 credit hour) & GHIST 7702 (3 credit hour).

GHIST-7705 (6) Imperialism, Decolonization, and Neo-Colonialism, 1700-PRESENT (Seminar/Discussion) This course is an exploration of theoretically informed literature that has attempted to engage with and understand Imperialism, and Colonialism, Anti-Colonial Nationalism, National Liberation Movements and Neo-Colonialism. UM HIST 7930

GHIST-7706 (3) Colonization and the Age of Modernity in Latin America (Seminar/Discussion) This course examines the relationship between colonization and

modernity in Latin America. It explores how Latin American societies are shaped by their experiences under colonialism. It also examines the relationship between globalization and developments in Latin America at the regional, national, and local levels. Sections vary but generally focus on issues of race, racism, identity, inequality and the relationship of these to political culture, both in local contexts or perspectives and the broader framework of contemporary liberalism and globalization.

Restriction(s): Cannot hold credit in both GHIST-7701 (6 credit hour) & GHIST-7706 (3 credit hour).

GHIST-7801 (6) Advanced Studies in Art History

(Lecture) This course addresses interpretations of selected topics in Art History as they have appeared in the literature. Possible topics may include Theories and Methods for Art History or the work of a particular artist, period or movement. Wherever possible topics are examined through the analysis of materials available in local collections. Students are expected to take a leading role in class discussions and to undertake a major research project on a topic of relevance to the course. Each time the course is offered the selected topic will be listed in the Timetable. UM HIST 9070

GHIST-7802 (3) The Idea of the Museum

(Seminar/Discussion) Museums and galleries do more than collect and exhibit objects; they participate in the packaging and presentation of the materials and ideas of culture, engaging with a diverse public and multiple stakeholders. Students examine the collecting, exhibiting and presentation practices of European and North American museums and galleries over the last two centuries with the goal of understanding their evolving role. The class explores how museums developed in response to the ideas of collecting and connoisseurship, the disciplines of art history and museology, and how these institutions reflect or relate to different ideologies, such as nationalism and colonialism.

Restriction(s): Students may not hold credit for this course and GHIST-7830 (6 credit hour) or GENG-7821 or GCST-7802.

GHIST-7903 (6) History of Health and Disease

(Seminar/Discussion) This seminar course introduces students to some of the principal issues and approaches in the history of health and disease. It is not a strictly chronological survey of the history of medicine. Rather, each week we explore a different aspect of the history of health from different historiographical perspectives. Topics include the development of the nursing and medical professions; the transformation of the hospital; mental health and the asylum; alternative therapies; colonization, infectious disease and aboriginal health; the history of disease; and health and the state. UM HIST 9632

GHIST-7904 (3) History and Memory

(Seminar/Discussion) This seminar examines the field of memory studies through a comparative transnational survey (with a focus on Europe and the Americas). Memory studies ask not "What happened in the past?" but rather "How did individuals and groups remember the past?" To answer this question, historians study oral history and other forms of informal communication, formal

history education, museums, monuments, film, and photography. Students learn about major concepts such as historical consciousness; narrativity; collective memory, public history; culture and politics of history, including "history wars". (JMP with the University of Manitoba)

Restriction(s): Cannot hold credit in both GHIST-7007 (6 credit hour) & GHIST-7904 (3 credit hour).

Master of Arts Indigenous Governance

GIS-1101 (6) Introductory Cree (Lecture | Lab) This course is intended for students who are not fluent in Cree and have never taken a course in the language. The emphasis is primarily on oral work for the purpose of learning basic sounds, vocabulary, and grammatical patterns. Structural differences between Cree and English are highlighted.

Restriction(s): Students cannot receive credit for this course if they already have credit for IS-1101.

Requisite Courses: Take GIS-1101L.

GIS-1201 (6) Introductory Ojibwe (Lecture | Lab) This course is intended for students who are not fluent in Ojibwe and have never taken a course in the language. The emphasis is primarily on oral work for the purpose of learning basic sounds, vocabulary, and grammatical patterns. Structural differences between Ojibwe and English are highlighted.

Restriction(s): Students cannot receive credit for this course if they already have credit for IS-1201.

Requisite Courses: Take GIS-1201L.

GIS-7020 (3) Indigenous Self Determination (Lecture) This course brings to the academy a pivotal concept for the present and future of Indigenous peoples. How Indigenous peoples face and deal with colonization, imperialism, and globalization will depend upon the critical understanding and realizations of self-determination. The legal, political, social, and cultural connotations around self-determination for Indigenous peoples are considered. The course is focused not only on theoretical considerations but is designed to bring issues of self-determination into the collective and individuals lives of those who identify themselves with the concerns of Indigenous peoples.

Restriction(s): Students cannot receive credit for this course if they already have credit for GDP-7717 or IS-4020.

GIS-7021 (6) Pathways to Indigenous Wisdom (Lecture) In this course, students' assumptions and world views are challenged and enriched by a deep and complex understanding of Indigenous ways of knowing. By decolonizing and indigenizing the mind, students are open to imagining and, later, implementing strategies that are embedded in indigenous teachings. The course emphasizes the importance of critical thinking through the examination and immersion into indigenous epistemologies and brings to the program the instructor's expertise in First Nations governance, development efforts and systems.

Restriction(s): Students cannot receive credit for this course if they already have credit for IS-4021 or GIS-4021.

GIS-7022 (6) Indigenous Research Methods (Lecture) This interactive-lecture and seminar course is designed to promote critical review and thinking on the research process and writing. The seminar focuses on identifying assumptions and power relations involved in the act of research and the production of knowledge. The decolonization of the Western ways of research and the

incorporation of Indigenous research approaches for knowledge production will be examined. The seminar provides the fundamentals for formulating and structuring a workable, sound and grounded thesis and/or applied research (practicum) proposal. The seminars also review ethical issues when conducting research in Indigenous communities.

Restriction(s): Students cannot receive credit for this course if they already have credit for IS-4022.

GIS-7023 (3) Indigenous Globalization and Development (3 hrs Lecture) Indigenous peoples today are enmeshed in the expanding modern economy, subject to the pressures of both market and government. More and more Indigenous communities are rejecting the traditional capitalist vision of development as human and environmental exploitation and focusing on new types of local development projects. This course analyzes some of the conflicts associated with traditional development projects in Indigenous communities. Taking Indigenous peoples as actors as its starting point, the class examines innovations in Indigenous economic development that are culturally respectful, environmentally responsible and that build a new sense of community.

Restriction(s): Students cannot receive credit for this course if they already have credit for GDP-7716 or IS-4023

GIS-7024 (3) Biocultural Diversity Conservation: Balancing Scientific and Indigenous Knowledge Practices (Lecture) This course focuses on the interrelationship between indigenous peoples and their environment. Indigenous communities contribute understanding, practices and innovations regarding the use and conservation of biodiversity and natural resources in diverse ecosystems. Indigenous knowledge is recognized in international agreements and efforts are made to integrate it into conservation and management programs. The tensions arising from the confluence of indigenous and scientific knowledge, the opposition of different epistemological approaches, the increasing loss of biodiversity and indigenous cultures, the interconnectedness between biological and cultural diversity are the central themes of this course.

Restriction(s): Students cannot receive credit for this course if they already have credit for GIS-4024 or IS-4024.

GIS-7025 (3) Indigenous Languages: Culture, Rights, and Conflict (3 hrs Lecture) Indigenous languages are an integral part of indigenous peoples' identity, worldview and culture. It is however currently estimated that up to ninety per cent of the world's Indigenous languages are likely to disappear by the end of the century. This course is designed to provide students with an overview of Indigenous language issues related to culture, advocacy, revitalization, and resistance. Students will be encouraged to critically compare and contrast the treatment of Indigenous languages through legislation, policy, grassroots activism, and educational and systemic efforts in countries such as Canada, the United States, New

Zealand, Norway, and Sweden.

Restriction(s): Students cannot receive credit for this course if they already have credit for IS-4025.

GIS-7026 (3) Community Food Security: Indigenous and International Perspectives (Lecture) Community food security is gaining wider recognition and importance. The course focuses on a rich diversity of self-organized food systems to improve, maintain and enhance their health, well-being, resilience and ecological sustainability originated and nurtured by Indigenous and socially-economically under-represented local communities. It also examines Canadian and International case studies and empirical research on Indigenous voices, knowledges and perspectives on their own food systems. This course explores and critically engages students with the concepts, approaches, practices and challenges of Indigenous food production, consumption and distribution systems and processes and their role in achieving community food security.

Restriction(s): Students cannot receive credit for this course if they already have credit for GIS-4026 or IS-4026.

GIS-7028 (6) Human and Indigenous Rights in Latin America (Seminar/Discussion) Indigenous nationalities and other marginalized minority groups in Latin America have developed innovative strategies, alliances and forms of political participation to achieve recognition of their rights and to contribute to new political configurations in the region. This course studies the dynamic situation of Indigenous and human rights and social conflicts in Latin America. Topics include contested definitions of individual and collective rights, responses to human rights abuses and intersections between human rights frameworks and related peacebuilding processes. A country or sub-region may be selected for an in-depth case study. Topics may vary at different times that the course is offered.

Restriction(s): Students cannot receive credit for this course if they already have credit for IS-4028 or HR-4210.

GIS-7030 (3 or 6) Directed Readings (3 hrs Lecture) In this course, readings and assignments in the area of Indigenous Governance are arranged between an individual student and the instructor. Topics may not duplicate regular course offerings in Indigenous Studies or other departments. This course is an opportunity to explore a specialized topic in the interdisciplinary context of the field. Examples of potential topics: comparing Canadian and New Zealand/Aotearoa treaty rights efforts; analyzing effects of First Nations provincial and national coalitions on policy at various levels; ethnohistorical research on settler-Indigenous political interactions.

GIS-7101 (6) Thesis in Indigenous Governance (Thesis) Students choose a research topic in consultation with a Thesis supervisor and write a Thesis paper. Thesis are evaluated by a Thesis Committee and then are presented in an oral defense.

GIS-7102 (6) Indigenous Co-Operative Work Practicum (Apprenticeship/Internship/Practicum) Students are placed with a host organization (an Indigenous organization, a public service organization, or a

non-governmental organization, for example) for the purpose of developing research or applied policy skills in the area of Indigenous governance, as broadly understood.

The aim of the course is for students to develop experiential learning skills and understandings of community-engaged scholarship and practice. The placement takes place under the terms agreed upon with the student, the Practicum Academic Supervisor, and the practicum host.

Note: Practicum is evaluated by a practicum committee through a report (to be prepared as per MAIG program guidelines) to be presented in an oral defense.

GIS-7103 (6) Comprehensive Exam (Apprenticeship/Internship/Practicum) In this course, a program advisor provides orientation and instruction to the student in preparation for a written and oral comprehensive exam. The examination assesses general knowledge of Indigenous governance theories and practices, detailed understanding of a specific field within Indigenous governance, and the student's ability to present and defend material orally. A Comprehensive Examination Committee evaluates the written and the oral components.

GIS-7200 (1.5 or 6) Selected Topics (Lecture) This course focuses on particular aspects of Indigenous governance. The selected topic is discussed in seminar format. It may be approached in a variety of ways, including philosophical, ecological, social/cultural, economic, political, or artistically. The course may be repeated for credit when the topic varies. Can be taken for 1.5, 3 or 6 credit hours.

GIS-7703 (3) Indigenous Education in an Era of Globalization (Seminar/Discussion) This course examines various Indigenous learning systems and their adaptations within a global world. As societies become more integrated through globalization, traditional Indigenous learning systems are being challenged as to their viability. In response, Indigenous peoples are adapting their learning systems to meet the challenges that are occurring to the social fabric of their cultures. More generally, this course brings Indigenous perspectives on education to the analysis of globalization.

Restriction(s): Students cannot receive credit for this course if they already have credit for GDP-7703 or IS-4703.

Master in Management

GBUS-7110 (3) Introduction to Technology, Innovation and Operations Management (Seminar/Discussion)

Through case studies, critical review of research papers, readings, student presentations and group activities, this course aims to equip students with the core concepts of technology innovation and operations management including the foundations of technological innovation, gaining an in-depth understanding of how and why innovations occur in an industry, and why some innovations rise to dominate others. Also, this course introduces students to problems and analyses related to the design, planning, control, and improvement of manufacturing and service operations. It aims to help students become leaders of technology, innovation, and operations management.

GBUS-7120 (3) Leadership and Innovation

(Seminar/Discussion) Leadership and Innovation will introduce students into the complexities of managing an organization during times of change. The ability of leaders to systematically encourage and enhance an organization's human capital to transform institutional knowledge into innovative products, services, and systems, as well as using technology where appropriate is key to the development of a sustainable innovative organization. In this course students will be introduced to the elements and attributes of the innovation and change process and understand the types of leadership that is needed to facilitate it. Students will be expected to critically analyze papers and cases, discuss key aspects of leadership in different types of organizations. Students will also be expected to analyze the impact of and the leadership implications of developing more innovation, technological change, and operational change.

GBUS-7210 (3) Business Strategy

(Online-Asynchronous) Business Strategy will introduce you to the tools used to assess strategy and the process of strategic management in organizations from the perspective of senior management. Students are provided with a framework to diagnose and solve critical problems in organizations using cases, exercises, discussions, and simulations and touching on all functional areas. Although this approach emphasizes the senior management's perspective, functional specialists are also expected to understand the entire organization and how they contribute to the organization's mission and objectives. Attention will be given to the importance of technology and innovation in strategy.

Requisite Courses: Successful completion of GBUS-7110 & GBUS-7120.

GBUS-7220 (3) Project Management

(Online-Asynchronous) Intended to develop the knowledge and skills to effectively manage workplace projects. Students learn the value of formal processes and the roles and responsibilities of project managers. We examine best practices in each stage of the project management cycle including needs assessment, project selection and bidding,

planning, budgeting and scheduling, implementation and communication, and project evaluation. These project phases are examined in the context of ensuring strategic alignment with broader organizational goals with emphasis on fostering innovation. Students will also have the opportunity to use common project management tools and apply their knowledge to case studies and projects.

Requisite Courses: Successful completion of GBUS-7110 & GBUS-7120.

GBUS-7225 (3) Descriptive Analytics

(Seminar/Discussion) This course introduces students to the field of business analytics by first providing an overview of descriptive, predictive, and prescriptive analytics. It then covers descriptive analytics in depth by examining topics such as big data, data visualization, descriptive data collection, random variables and probability theories, and business reporting using descriptive analytics. The focus will be on experiential learning as students will 1) conduct case analyses based upon real companies; 2) get hands-on experience using various descriptive analytics programs/packages; 3) participate in a simulation that will bring together many of the concepts covered throughout the course into a cohesive, holistic final assignment.

GBUS-7230 (3) Strategies in Operations and Supply Chain Management (Seminar/Discussion)

This course develops a framework that allows students to advance their knowledge of the linkage between operations and supply chain of firms and their strategic positioning in the market. Students will get an appreciation for the role of business processes as determinants of the operation function, supply chain strategy and the competitive advantages of an organization. Students will develop an understanding of the concepts and tools that are fundamental to the operations function and supply chain strategies.

Requisite Courses: Successful completion of GBUS-7110 & GBUS-7120.

GBUS-7235 (3) Advanced Prescriptive Analytics

(Seminar/Discussion) The objective of this course is to enable students to develop skills in modeling, analyzing, and improving business processes and operational systems through simulation techniques and optimization models. The course is for the most part centred on discrete-event simulation, a powerful tool for imitating the behaviour of virtually any type of operational system that unfolds over time and in which uncertainty plays an important role. The emphasis is on hands-on experience in transforming a real situation into a quantitative model and obtaining reliable results.

Requisite Courses: Successful completion of GBUS-7225.

GBUS-7240 (3) Information Systems and Knowledge Management (Seminar/Discussion)

The objective of this course is to develop students' analytical abilities to deal

with issues relating to information systems and knowledge management within organizations. Students study the development, control, and management of both information systems and knowledge management. Regarding information systems, the emphasis is on IT governance, the strategic power and capabilities of information systems, the role and importance of business process re-engineering within the realm of information systems development, security, business continuity, and enterprise resource planning (ERP) systems. In terms of knowledge management, the course provides students with the skills necessary to strategically manage individual, group, and organizational assets.

Requisite Courses: Successful completion of GBUS-7110 & GBUS-7120.

GBUS-7250 (3) Strategic Management Accounting

(Online-Asynchronous) This course aims to develop the students' analytical abilities to deal with problems relating to financial situations within the firm. The course deals with the role of accounting in an organization's planning and control system with an emphasis on responsibility accounting, performance evaluation, and risk management. Topics covered include management control and decentralization, activity-based costing and management, strategy mapping and the balanced scorecard, value chain analysis, and strategic cost management and profitability analysis.

Requisite Courses: Successful completion of GBUS-7110 & GBUS 7120.

GBUS-7255 (3) Advanced Predictive Analytics

(Seminar/Discussion) This course exposes students to the fundamentals of prediction algorithms and their applications in business operations. The course equips students with the knowledge of operational principles of predictive algorithms and how to deploy these tools for predicting future events with optimum accuracy. The course intends to stimulate curiosity in identifying patterns and structures in historical data, understanding their implications, and unpacking and implementing appropriate predictive algorithms in R programming to predict future outcomes in a realistic business environment.

Requisite Courses: Successful completion of GBUS-7225 AND GBUS-7235.

GBUS-7260 (3) Innovation Management

(Seminar/Discussion) This course provides students with an understanding of the key concepts of technology and innovation, their relationship with the organizational environment, and their overall impact on management and organizations. Students get an understanding of fundamental concepts of Innovation Management, the development of the area from a historic perspective, develop awareness related to current trends and challenges related to innovation, and develop a knowledge of the typical objectives, leverage points and constraints in working with innovation. The course is based on a selection of innovation management readings and business cases.

Requisite Courses: Successful completion on GBUS-7110 & GBUS-7120.

GBUS-7265 (3) Multivariate Data Analysis

(Seminar/Discussion) This course examines advanced and practical considerations of major multivariate data analysis techniques. Emphasis is placed on the terminology, concepts, procedures, and statistical techniques involved in processing, analysis, and interpretation of these techniques. All major multivariate techniques are illustrated with practical application in business research and decision areas.

Requisite Courses: Successful completion of GBUS-7225.

GBUS-7310 (3) Current Trends in Technology, Innovation and Operations Management

(Seminar/Discussion) Given the importance of technology and innovation for firms' success in today's business environment, the purpose of this course is to equip students with an in-depth understanding of the most recent trends in practice of technological innovations. Students will be developing an awareness regarding the key role of technological innovations in managing resilient operational systems; understanding the scope of technology adoption in operations practice; comparing the most innovative technological trends adopted in practice with the recent academic development in this area and gaining a full appreciation for the synergies between three pillars of the MiM program; operations, technology, and innovation.

Requisite Courses: Successful completion of GBUS-7210 / GBUS-7220 / GBUS-7230 / GBUS-7240 / GBUS-7250 / GBUS-7260 OR Successful completion of GBUS-7210 / GBUS-7225 / GBUS-7235 / GBUS-7240 / GBUS-7255 / GBUS-7265.

GBUS-7320 (3) Graduate Capstone Course

(Seminar/Discussion) This course requires students to draw upon the theoretical constructs, principals, and applications, in the courses taken within the program. Students will be demonstrating their accumulated knowledge, skill sets, and abilities through case analysis, and a final comprehensive report submitted by a paper and delivered in a presentation.

Requisite Courses: Successful completion of GBUS-7110 / GBUS-7120 / GBUS-7210 / GBUS-7220 / GBUS-7230 / GBUS-7240 / GBUS-7250 / GBUS-7260 OR Successful completion of GBUS-7110 / GBUS-7120 / GBUS-7210 / GBUS-7225 / GBUS-7235 / GBUS-7240 / GBUS-7255 / GBUS-7265.

Master of Marriage and Family Therapy

GMFT-7551 (2) Graduate Seminar in Marriage and Family Therapy Theory (3 hrs Lecture) This seminar is designed to correlate theory, research and clinical practice. Students select research topics stimulated by their clinical practice. Research will include an examination of relevant literature, reflection on best practices relative to the student's clinical interest, and the presentation of findings for peer examination and reflection. The course provides opportunities for peer assisted research, inclusive of assisting the student with defining the area of interest, helping the student conduct the research and examining the results of the research. The major objective of this research is to examine the implications of the theory for the best clinical practice. This course is limited to 4th Practicum students.

Requisite Courses: Successful completion of GMFT-7584 or GMFT-7594 OR registered concurrently in one with GMFT-7551.

GMFT-7552 (4) Survey of Family Therapy Theories (3 hrs Lecture) This course introduces the student to the systemic concepts that form the background for family therapy as a discipline and the family therapy theorists who have shaped the development of family therapy. Specific attention is given to the philosophical views that inform the various theories studied. (This course should be among the first a student takes as it is a prerequisite for several of the other core courses).

GMFT-7553 (3) Couple Therapy (3 hrs Lecture) This course examines the dimensions and dynamics of couple relationships and therapies for couple problems. The research on the emotional, sexual, power, gender, cultural and spiritual aspects of the couple relationship is explored. Therapies available for addressing problems that a couple faces are studied with particular attention to systemic interventions and sex therapy.

GMFT-7554 (3) Self in the Family Laboratory (3 hrs Lecture) The self of the therapist is the subject of this laboratory. Resources, blind spots, and expectations of the self are examined. Isomorphic concepts and intergenerational theories are explored and applied. Experiential learning processes (inclusive of family of origin work and role plays) are extensively used. No letter grade is given, only pass or fail. This is a 12-week, 48-hour laboratory. Full participation and attendance are mandatory. **Restriction(s):** A Screened Course Application is required.

Requisite Courses: Successful completion of GMFT-7552.

GMFT-7555 (3) Children & Adolescents in Family Therapy (3 hrs Lecture) This course addresses family therapy with children, adolescents, and parents. It attends to issues of parenting, child and adolescent development, special issues of childhood and adolescence, models of therapy, interventions and the self of the therapist.

Restriction(s): Cannot receive credit for this course and

the former GMFT-7570.

Requisite Courses: Successful completion of GMFT-7552.

GMFT-7556 (1) Human Sexuality and Sex Therapy (3 hrs Lecture) This course offers a brief overview of sexual issues to assist marital therapists working with couples. The course includes a history of sexuality, the major sexual dysfunctions, and ways of helping therapists feel comfortable in addressing sexual issues with their clients.

Requisite Courses: Successful completion of GMFT-7553.

GMFT-7559 (1) Post-Divorce Families (3 hrs Lecture) Divorce is a relatively common occurrence with generally unpredictable consequences. Attention is paid to the controversy around these consequences particularly for children, to high conflict post-divorce families, and to the special challenges faced by stepfamilies. No letter grade is given; only pass or fail.

GMFT-7560 (3) Issues of Diversity in Family Therapy (3 hrs Lecture) Individual and relational systems, including therapeutic systems, do not exist in a vacuum. They are embedded in a larger context and strongly shaped by culture, gender, race, society, (dis)ability, and many other factors. This course explores the person of the therapist as an ethnic, gendered and diverse being, and examines ways in which contextual factors influence the process of therapy. Special attention is given to feminist thought in family therapy and to developing sensitivity in working therapeutically with people belonging to diverse and marginalized groups.

Requisite Courses: Successful completion of GMFT-7552.

GMFT-7563 (3) Group Theory and Therapy (3 hrs Lecture) Group therapy theory is presented. Special attention is given to the examination of group processes, leadership functions, and member interactions. The use of group theory and therapy in the treatment of couples and families is explored. Experiential learning is extensively used.

GMFT-7564 (1) Selected Assessment Topics (Lecture) This selection of courses presents concepts and skills useful to the practicing therapist in making clinical assessments and for consulting with allied clinical service providers. Specific assessment topics are presented, each in a 1 credit hour course format. No letter grade is given; only pass or fail. The topics are: 1) Assessing Addiction in the Family This course provides students with tools for assessing various types of addictions. Students learn how to recognize signs and symptoms of addictive processes in family members as well as in family systems. Students are exposed to treatment resources in the community and to various literature resources. 2) Multiple Social Systems Interventions This course presents concepts and methods appropriate for understanding multi-system treatment

programs and working with clients where the systems are not coordinated. 3) Legal Issues and the Family Therapist This course presents the major ways in which legal systems impact upon clinical involvement with clients. This course introduces the student to the mandate, processes, and consequences of selected legal systems and the significance of these for the practice of family therapy. 4) Standardized Assessment Procedures and Instruments This course introduces the student to selected psychometric instruments commonly used by allied professions in the social service sector and to standardized family therapy assessment instruments. The student is also introduced to the concepts and methods associated with writing standardized reports. 5) Post-Traumatic Stress Assessment This course introduces the student to the impact of acute and chronic trauma on individuals, couples, families and social systems. Specific attention will be given to etiology, assessment and treatment from a biophysical systemic perspective. This course may be repeated for credit when the topic varies.

GMFT-7565 (1) Spirituality and Family Therapy (3 hrs Lecture) The goals of this course include training in opening a dialogue with individuals and families about spiritual issues, discerning when a referral may be appropriate, expanding an awareness of wisdom traditions through comparative religious material, and identifying from current practice many of the spiritual issues that arise in the clinical setting. No letter grade is given; only pass or fail.

GMFT-7566 (1) Psychopathology and Therapeutics (3 hrs Lecture) The purpose of this course is to introduce the student to the psycho-social, pharmacological and clinical concepts related to the current diagnostic classification system for psychopathology. The relevance of the classification system to the practice of marriage and family therapy underlays the topical content and theoretical focus of this course.

Restriction(s): Cannot receive credit for this course and the former GMFT-7564 Selected Assessment Topics: DSM IV.

Requisite Courses: Successful completion of GMFT-7581 or GMFT-7591 OR registered concurrently in one with GMFT-7566.

GMFT-7567 (1) Working With Families and Serious Mental Illness (SMI) (Lecture) This course reviews the history of family treatment in Serious Mental Illness (SMI) treatment, the impact of SMI on the family, the needs of these families and finally new developments and best practices in this area. No letter grade is given; only pass or fail. Registrants normally complete one practicum (or the equivalent) before registering for this course.

Restriction(s): Students cannot receive credit for this course if they already have credit for GMFT-7564 SAT: Working with Families and Serious Mental Illness.

Requisite Courses: GMFT-7581 or GMFT-7591 is required (or registered concurrently).

GMFT-7569 (3) Health, Aging, and Work of Adulthood (3 hrs Lecture) This course examines the health and productive aspects of adulthood along with their impact on

personal and relational dynamics. Means of coping with illness, handicaps, physical changes with age, and types of workplaces and work histories are identified. The influences of gender, families and culture on the health, aging and work opportunities of individuals are identified. Consideration will be given to the roles of physical well-being and productive activities for personal identity and a sense of meaning. Limited attention will be given to implications for therapeutic interventions.

GMFT-7571 (2) Abuse in the Family: Theory (3 hrs Lecture) This first part of the Abuse course offers an understanding of how trauma impacts on our clients at the level of their bodies, their cognitions, and their relationships within the life cycle. It also attends to how different ideas and theoretical perspectives about healing shape clients' and therapists' ability to learn how to cope in healthy ways. Included is attention to how culture, gender, spirituality and other beliefs shape our approaches to healing.
Requisite Courses: Successful completion of GMFT-7552.

GMFT-7572 (3) Marriage and Family Therapy as a Profession (3 hrs Lecture) This course gives attention to the interface between the practice of marriage and family therapy and other professions, family law, professional ethics, and managing the professional affairs of a practicing therapist.

GMFT-7573 (3) Family Reconstruction (3 hrs Lecture) Through a better understanding of their family of origin through re-experiencing key events and learnings in their family history, participants gain new perspectives on past experience in order to change patterns that are no longer useful. This transformation creates room to discover and accept one's own personhood and the personhood of significant others. No letter grade is given; only pass or fail.

GMFT-7574 (3) Family Therapy Research Methods (3 hrs Lecture) This course gives attention to concepts and methods used in marriage and family therapy research. The object of this course is to assist students with becoming informed and critical consumers of research in the marital and family therapy field.

GMFT-7575 (3) Family Therapy Plans and Interventions (3 hrs Lecture) This course teaches the development of systems-based treatment plans for family therapy clients. Special attention is given to interventions and techniques that are appropriate to such treatment plans.

Requisite Courses: Successful completion of GMFT-7552.

GMFT-7576 (2) Death in the Family (3 hrs Lecture) The course aims to provide the participants with insight into the dynamics of grief in response to change, loss and death. Students have the opportunity to develop the skills needed to work with individuals, families and groups. Participants are invited to process their own personal and professional experience with grief and loss. Prior to 2008 was listed under 7564 Selected Topics in MFT: Death in the Family and 7573/3 worth 3 credit hours.

Restriction(s): Cannot receive credit for this course and the former GMFT-7564 Selected Assessment Topics: Death in the Family or GMFT-7573 Family Reconstruction: Death in the Family (3 credit hours).

GMFT-7577 (1) Treating Relational Trauma (3 hrs Lecture) The focus is on practical application of the therapist's understanding of trauma to actual cases and working on the self of the therapist.

Restriction(s): Students cannot receive credit for this course if they already have credit for GMFT-7571 Abuse in the Family: Practice.

Requisite Courses: Successful completion of GMFT-7571; Successful completion of GMFT-7581 or GMFT-7591 OR registered concurrently in one with GMFT-7577.

GMFT-7578 (3) 2SLGBTQ+ Issues in Couple and Family Therapy (Lecture) In this course, we consider a range of issues that Two-Spirit, Lesbian, Gay, Bisexual, Transgender, Queer, and other sexual and gender diverse people (2SLGBTQ+) bring to couple and family therapy. Through a socio-ecological systems perspective, various topics are addressed, including but not limited to, gender identity, masculinity, femininity, sexual orientation, coming out, homophobia, transphobia, intersections of multiple social locations, mental health, sexual health, and relational issues in couples, families, and communities. Students are expected to engage in experiential activities and self-reflection and to develop knowledge and clinical skills for working with 2SLGBTQ+ in couple and family therapy. **Experimental Course** - This course is offered on a trial basis to gauge interest in the topic. Students who successfully complete this course receive credit as indicated.

GMFT-7579 (3) Decolonizing Healing Through Indigenous Ways of Knowing (Lecture) This course examines Indigenous healing and diversity within Indigenous ways of knowing. This course explores decolonizing approaches to healing and interrupting historical colonial cycles of harm to work toward reconciliation. Through Indigenous ways of knowing, therapeutic approaches can incorporate traditional ways of healing into current practice. Exploring healing from a decolonizing perspective provides the opportunity for learning and healing to co-exist. This course is strength based, weaving Two-Eyed seeing approach to therapy, drawing on the strengths of both world views (Indigenous and Western) for holistic approach to healing. **Experimental Course** - This course is offered on a trial basis to gauge interest in the topic. Students who successfully complete this course receive credit as indicated.

GMFT-7581 (6) Supervised Marriage and Family Therapy (6 hrs Apprenticeship/Internship/Practicum) The content of this course is the supervision of marriage and family therapy. Student will learn to use supervision for professional development and to learn basic skills of therapy (e.g. joining with clients, contracting for services, creating interventions, and planning terminations). Supervision will be provided through a one-way window

as well as through recordings and transcriptions of clinical sessions. Cases are assigned at Aurora Family Therapy Centre. Students conduct 100 hours of therapy.

Restriction(s): A Screened Course Application must be submitted and approved; students normally complete the Theory Certificate before registering for this course; students may not hold credit for this course and GMFT-7591.

GMFT-7582 (6) Supervised Marriage and Family Therapy (7 hrs Apprenticeship/Internship/Practicum) The content of this course is the supervision of marriage and family therapy. The objects of the course will be to enable the student to more efficiently use the skills that were introduced in the first level of training and to add such other skills and concepts as are appropriate. Supervision will be provided through a one-way window as well as through recordings and transcriptions of clinical sessions. Cases are assigned at Aurora Family Therapy Centre or at an alternative approved clinical facility. Students conduct 120 hours of therapy.

Restriction(s): A Practicum Application must be submitted and approved and students may not hold credit for this course and GMFT-7592.

Requisite Courses: Successful completion of GMFT-7581 or GMFT-7591 OR registered concurrently.

GMFT-7583 (6) Supervised Marriage and Family Therapy (8 hrs Apprenticeship/Internship/Practicum) The content of this course is the supervision of marriage and family therapy. The object of the course will be to enable the student to expand his/her range of interventions and therapy concepts while maintaining the skills learned in sections MFT-7581/6 and MFT-7582/6 of the supervised program. Supervision will be provided through a one-way window as well as through recordings and case notes of clinical sessions. Cases are assigned at Aurora Family Therapy Centre or an approved clinical facility. Students conduct 135 hours of clinical interviews.

Restriction(s): A Practicum Application must be submitted and approved and students may not hold credit for this course and GMFT-7593.

Requisite Courses: Successful completion of GMFT-7581 or GMFT-7591 and GMFT-7582 or GMFT-7592 (OR registered concurrently).

GMFT-7584 (6) Supervised Marriage and Family Therapy (9 hrs Apprenticeship/Internship/Practicum) The content of this course is the supervision of marriage and family therapy. The object of the course will be to assist the student with solidifying his/her grasp of the skills taught in the earlier sections of the supervised program while moving toward more autonomy when providing clinical services. Supervision will be provided through a one-way window as well as through recordings and case notes of clinical sessions. Cases are assigned at Aurora Family Therapy Centre or an approved clinical facility. Students conduct 145 hours of clinical interviews.

Restriction(s): A Practicum Application must be submitted and approved and students may not hold credit for this course and GMFT-7594.

Requisite Courses: Successful completion of GMFT-7581 or GMFT-7591 and GMFT-7582 or GMFT-7592

and GMFT-7583 or GMFT-7593 (OR registered concurrently).

GMFT-7591 (6) Supervised Marriage and Family Therapy (6 hrs Apprenticeship/Internship/Practicum) The content of this course is the supervision of marriage and family therapy. The student will learn to use supervision for professional development and learn the basic skills of therapy (e.g., joining with clients, contracting for services, creating interventions, and planning terminations). Supervision will be provided through live sessions, recordings and transcriptions of clinical sessions. Cases are assigned at Aurora Family Therapy Centre or at an alternative approved clinical facility. Students conduct a minimum of 90 hours of therapy. This course is offered over two terms.

Restriction(s): A Screened Course Application must be submitted and approved; students normally complete the Theory Certificate before registering for this course; students may not hold credit for this course and GMFT-7581.

GMFT-7592 (6) Supervised Marriage and Family Therapy (7 hrs Apprenticeship/Internship/Practicum) The content of this course is the supervision of marriage and family therapy. The main objectives are to enable the student to use the skills that were introduced in the first level of training more efficiently, and to add other skills and concepts as appropriate. Supervision will be provided through live sessions, recordings and transcriptions of clinical sessions. Cases are assigned at Aurora Family Therapy Centre or at an alternative approved clinical facility. Students conduct a minimum of 100 hours of therapy. This course is offered over two terms.

Restriction(s): A Practicum Application must be submitted and approved and students may not hold credit for this course and GMFT-7582.

Requisite Courses: Successful completion of GMFT-7581 or GMFT-7591 OR registered concurrently.

GMFT-7593 (6) Supervised Marriage and Family Therapy (8 hrs Apprenticeship/Internship/Practicum) The content of this course is the supervision of marriage and family therapy. The main objectives are to enable the student to expand their range of interventions and therapy concepts while maintaining the skills learned in the previous levels of training. Supervision will be provided through live sessions, recordings and transcriptions of clinical sessions. Cases are assigned at Aurora Family Therapy Centre or an alternative approved clinical facility. Students conduct a minimum of 100 hours of therapy. This course is offered over two terms.

Restriction(s): A Practicum Application must be submitted and approved and students may not hold credit for this course and GMFT-7583.

Requisite Courses: Successful completion of GMFT-7581 or GMFT-7591 and GMFT-7582 or GMFT-7592 (OR registered concurrently).

GMFT-7594 (6) Supervised Marriage and Family Therapy (9 hrs Apprenticeship/Internship/Practicum) The content of this course is the supervision of marriage and family therapy. The main objectives are to assist the

student with solidifying their grasp of the skills taught in the earlier levels of training while moving toward more autonomy when providing clinical services. Supervision will be provided through live sessions, recordings and transcriptions of clinical sessions. Cases are assigned at Aurora Family Therapy Centre or an alternative approved clinical facility. Students conduct a minimum of 100 hours of therapy. This course is offered over two terms.

Restriction(s): A Practicum Application must be submitted and approved and students may not hold credit for this course and GMFT-7584.

Requisite Courses: Successful completion of GMFT-7581 or GMFT-7591 and GMFT-7582 or GMFT-7592 and GMFT-7583 or GMFT-7593 (OR registered concurrently).

GMFT-7597 (1 or 3) Area I Directed Studies (Seminar/Discussion with variable meeting hours) This course allows the student to undertake an in-depth study on a specific topic area. Readings and assignments in the area of Theoretical Foundations (Area I) are arranged between an individual student and the instructor, depending on the student's interest and the instructor's knowledge-area expertise. This course may be repeated for credit when the topic varies. Can be taken for 1, 2 or 3 credit hours.

Restriction(s): Students must submit a Directed Study Application Form and obtain approval from the Program Director.

GMFT-7598 (1 or 3) Area II Directed Studies (Seminar/Discussion with variable meeting hours) This course allows the student to undertake an in-depth study on a specific topic area. Readings and assignments in the area of Clinical Practice (Area II) are arranged between an individual student and the instructor, depending on the student's interest and the instructor's knowledge-area expertise. This course may be repeated for credit when the topic varies. Can be taken for 1, 2 or 3 credit hours.

Restriction(s): Students must submit a Directed Study Application Form and obtain approval from the Program Director.

GMFT-7599 (1 or 3) Area III Directed Studies (Seminar/Discussion with variable meeting hours) This course allows the student to undertake an in-depth study on a specific topic area. Readings and assignments in the area of Human Development and Family Studies (Area III) are arranged between an individual student and the instructor, depending on the student's interest and the instructor's knowledge-area expertise. This course may be repeated for credit when the topic varies. Can be taken for 1, 2 or 3 credit hours.

Restriction(s): Students must submit a Directed Study Application Form and obtain approval from the Program Director.

Grad Studies Multidisciplinary

**GMULT-7119 (3) Summer Institute in Diseases and
Pol II (Lecture)**

**GMULT-7219 (3) Summer Institute in Infectious
Diseases (Lecture)**

Master of Arts Peace and Conflict Studies

GPCS-7010 (3) Interpersonal Communication, Problem- Solving and Trust-Building

(Seminar/Discussion) This course examines role of language and communication where theoretical and practice perspectives are fundamental to the field of conflict analysis and resolution/peace studies. Power, gender, culture in communication and conflict; theories, practical skills for problem- solving and trust building are explored in diverse milieus.

GPCS-7020 (3) Theories of Conflict and Conflict Resolution

(Seminar/Discussion) This course provides an overview of the theoretical foundations of conflict analysis and resolution examining macro and micro theories regarding the causes of conflicts and approaches to their resolution. Conflicts are complex on multiple, interlocking planes. The course focuses on theory and the implications of these theories for practice.

GPCS-7110 (3) International Human Rights and Human Security

(Seminar/Discussion) This course examines the shift in focus from state security to people. Human security is a bridge between the inter-related fields of development, human rights and conflict resolution. The course explores how these efforts at exploring the human condition can best be understood and applied.

GPCS-7120 (3) Peacebuilding and Social Justice

(Seminar/Discussion) This course examines the role of peacebuilding in short term crisis intervention and longer-term conflict transformation processes. Social justice is addressed at the systems level as it impacts the achievement of sustainable reconciliation. Crisis management in conflict settings, the root causes of conflict and its prevention are explored.

GPCS-7122 (3) Dispute Systems Design

(Seminar/Discussion) This course examines the role of conflict resolution within organizations and diverse settings (workplace, schools, communities, multiparty conflicts, international conflicts). The course focuses on analyzing how conflict is built into organizational structures and systems, and redesigning the system to produce effective human-centred relations.

GPCS-7124 (3) Gender, Conflict and Peacemaking

(Seminar/Discussion) This course examines the role of gender in conflict and peacemaking in areas of armed conflict. Women tend to be impacted and respond to conflict in ways different from men. The course explores the theoretical and practical contributions women activists, peace researchers and educators have made toward understanding the role of gender.

GPCS-7126 (3) Ethnic Conflict Analysis and Resolution

(Seminar/Discussion) This course examines theories of ethnic conflict and the intervention methods used by states, international organizations and conflict resolution and peace practitioners to analyze, manage and

resolve ethnic conflicts. Case studies are used to explain conflict analysis and resolution and peacebuilding.

GPCS-7128 (3) Storytelling: Identity, Power and Transformation

(Seminar/Discussion) This course examines the role of narrative and storytelling in conflict resolution, theory, research and practice. The relationship between language and power and destructive or constructive relationships is explored. The use of storytelling-based projects as a means of peacebuilding and community building are explored.

GPCS-7240 (3) Indigenous World Views and Approaches to Peacebuilding

(Seminar/Discussion) This course examines indigenous models of peacebuilding from community level to national level. Emphasis is placed on restorative processes fundamental to cohesive relationships with others. This is achieved through ceremony, empathy, compassion, conflict resolution and restoration part of the peacebuilding models of Indigenous peoples.

GPCS-7250 (3) Restorative and Social Justice

(Seminar/Discussion) This course examines the principles of restorative justice, the theoretical foundations of the restorative justice movement, and the development of new restorative justice programs. Restorative justice healing, re-integration and reconciliation are explored in a variety of contexts, including colonized and postcolonial indigenous communities.

GPCS-7260 (3) Peace Education

(Seminar/Discussion) This course examines the role of peace education as students seek to make sense of complicated and perilous events in their society. The course provides students with a background in the area of social justice, peace studies and conflict resolution.

GPCS-7300 (3) Special Topics 1: Children and War

(Seminar/Discussion) This course is designed for MA students in Peace and Conflict Studies. Course requirements including readings and assignments will be selected and developed by the Professor in conjunction with the students interests.

GPCS-7400 (3) Special Topics 2: Directed Readings in Peace and Conflict Studies

(Seminar/Discussion) This course is designed for MA students in Peace and Conflict Studies. Course requirements including readings and assignments will be selected and developed by the Professor in conjunction with the students interests.

GPCS-7500 (3) Special Topics 2: Practicum

(Apprenticeship/Internship/Practicum) Students develop awareness of theoretical knowledge, practice skills and abilities necessary for intervention in community, group and organizational conflicts at a practicum site. Students integrate theory and experiential learning into practice to analyze the conflict, during the intervention, and

post-intervention reflection.

Master of Public Administration

GPOL-7300 (3) Seminar in Theory and Practice of Public Administration I (Seminar/Discussion) The intent of this course is to provide insight into the exigencies of actual public administration. The course will be conducted on a topical basis within the framework of certain trends facing Canadian governments today. The course will attempt to utilize to the fullest extent possible the particular expertise of students in the program, faculty members, whether or not teaching in the program, and of both elected and appointed public officials. The topics in POL-7300(3) will not duplicate POL-7305(3).

Restriction(s): Students may not receive credit for this course if they already have credit for both POL-7300(3) and the former POL-7333(3).

GPOL-7301 (3 or 6) Administrative Theory

(Seminar/Discussion) This course is an examination of the theoretical basis for the "administrative state", including such problems as the relationship of political values to administrative decisions, the role of the career civil service in governmental policy formation, the relationship between administrative officials and private interest groups, and the protection of individual rights against administrative abuses. Attention will be given to North American and European techniques and institutions designed to achieve democratic control of administrative action.

GPOL-7305 (3 or 6) Seminar in Theory and Practice of Public Administration II (Seminar/Discussion) The intent of this course is to provide insight into the exigencies of actual public administration. The course will be conducted on a topical basis within the framework of certain trends facing Canadian governments today. The course will attempt to utilize to the fullest extent possible the particular expertise of students in the program, faculty members whether or not teaching in the program, and of both elected and appointed public officials. The topics in POL-7305(3) will not duplicate POL-7300(3).

Restriction(s): Students may not receive credit for this course if they already have credit for both POL-7305(3) and the former POL-7334(3).

GPOL-7320 (3) Seminar in the Public Policy Process

(Seminar/Discussion) The focus of this seminar is on the process of formulating and carrying out policies in the Canadian political system. Various models of the policy-making process will be discussed and their applicability to the Canadian setting will be considered. The function and role of different participants will be examined and in particular the impact of political, social and economic environment and institutional structures on different policy outcomes will be examined.

Restriction(s): Students may not receive credit for this course if they already have credit for POL-7320(3) and the former POL-7351(3).

GPOL-7325 (3) Seminar in Public Policy Issues

(Seminar/Discussion) This seminar is focussed on selected public policy areas and the issues pervading them.

Restriction(s): Students may not receive credit for this course if they already have credit for both POL-7325(3) and the former POL-7352(3).

GPOL-7331 (6) Directed Readings in Public Administration

(Seminar/Discussion) The program of reading and consultation will be arranged between the Instructor and the student, and if taken for credit toward the Master of Public Administration (MPA) program will need the consent of the Joint Discipline Committee of that program. The student will be required to write a major paper and take an oral examination based on it. Prerequisite(s): Permission of the instructor and Department, and of the Joint Discipline Committee for the MPA if taken for program credit.

GPOL-7335 (3) Directed Readings in Public Administration

(Seminar/Discussion) The course will consist of a program of reading and consultation arranged between the student and the instructor. The student will be required to write a paper and take an oral examination based on it. Prerequisite(s): Permission of the instructor and Department, and of the Joint Discipline Committee for the MPA if taken for MPA program credit.

GPOL-7341 (3) An Indigenous Approach to Program Evaluation: Theory and Practice

(Seminar/Discussion) In this experiential learning course, students are introduced to the purpose and practice of Indigenous evaluation, as well as some of the analytical tools used by evaluators, both Indigenous and mainstream. An Indigenous approach to evaluation is a strengths-based exercise. It is committed to respecting the community's values and traditional ways of knowing. Students will be given practical experiences in preparing data collection instruments, gathering data from program participants and other stakeholders, and interpreting the data. The course will also explore how an Indigenous approach to evaluation can be merged with the objectives of mainstream funders and other external stakeholders.

Restriction(s): Students may not receive credit for this course if they already have credit for GDP-7724.

GPOL-7380 (6) Special Topics Seminar in Public Administration

(Seminar/Discussion) The course will concentrate on a topic of primary relevance to students of public administration. Examples of such topics are the role of public bureaucracy in Canadian federalism; the regulatory process in Canada; the role of the Crown corporation; issue in health care policy; public administration in Manitoba; gender and public policy. The course may be repeated for credit when topic varies.

GPOL-7385 (3) Special Topics Seminar in Public Administration

(Seminar/Discussion) The course concentrates on a topic of primary relevance to students of public administration. Examples of such topics are the role of public bureaucracy in Canadian federalism, the regulatory process in Canada, the role of Crown

corporations, issues in health care policy, public administration in Manitoba, and gender and public policy. The course may be repeated for credit when the topic varies.

GPOL-7415 (6) State and Economy

(Seminar/Discussion) This course is an interdisciplinary investigation into the nature of the relationship of the government to the economy in modern times. The course emphasizes the economic implications of government policy and is primarily concerned with Canada.

GPOL-7505 (3) Politics of Urban Development

(Seminar/Discussion) This course is a study of the political objectives that can be achieved through urban planning as well as the political restraints upon planning. The course adopts a comparative perspective, looking at the politics of planning in selected countries. It also considers the involvement of various levels of government in urban planning.

Restriction(s): Students may not receive credit for both this course and POL-4505(6) or the former POL-4334(6) or POL-7335(6).

GPOL-7700 (3) Theories and Issues in Public

Administration (Seminar/Discussion) Integrating theory and practice helps to better understand the challenges facing public administration. Topics covered include changing approaches to management, human resource and financial management, reporting, accountability, citizen engagement, and network governance.

GPOL-7710 (3) Public Policy Process and Issues

(Seminar/Discussion) An introduction to the idea of policy analysis, including key foundational concepts and significant theories, models, and approaches; how and why the policy process operates as it does (empirical) and how and why some think it should operate (normative); and specific policy issues.

GPOL-7720 (3) Governance and Administration

(Seminar/Discussion) An introduction to theories of organization and bureaucracy linked to administrative practices in the public sector. Governance models (Traditional Public Administration, New Public Management, Multi-level Governance) in the Canadian, provincial, and local context will be explored.

GPOL-7730 (3) Principles of Public Finance for Policy

Analysis (Seminar/Discussion) An introduction to basic economic theories and tools used in public sector economics, which may include the economics/politics of taxing policies, externalities, theories of intergovernmental grants, major Canadian government spending programs, and new developments.

GPOL-7740 (3) Quantitative Methods for Policy

Analysis (Seminar/Discussion) An introduction to quantitative methods, including research design, data collection techniques and tools, basic statistical analysis, tests of statistical significance, contingency tables, multiple regression; with an emphasis on reading tables and graphs and understanding statistical assumptions. This is a survey

course designed for all levels of MPA students and will provide important and integral information for use in all subsequent research projects.

GPOL-7750 (3) Qualitative Methods and Communication for the Public Sector

(Seminar/Discussion) Communication coupled with an understanding of qualitative research approaches are key to success in public administration. Topics include research design, policy research, referencing, evaluating writing and research, and presenting for results. This is a survey course designed for all levels of MPA students and will provide important and integral information for use in all subsequent research projects.

GPOL-7760 (3) MPA Capstone Seminar

(Seminar/Discussion) Students pursue individual supervised projects that allow them to integrate theory and practice in an original topic in public administration and/or public policy, drawing on their skills and knowledge gained throughout the program. The students will participate in regularly scheduled workshop seminars and the projects will be presented in a semester-end colloquium.

GPOL-7770 (3) Professional Development

(Seminar/Discussion) Students will build employment-related skills such as interpersonal communications, presentation, leadership, career development, and software-related expertise. They will bridge theory and practice through participation and reflection in community events and workshops.

**Master of Arts
Religion**

GREL-7901 (3) Special Topics I (Seminar/Discussion)

Course description determined once topic is confirmed.

GREL-7902 (3) Special Topics II (Seminar/Discussion)

Course description determined once topic is confirmed.

Higher Education Teaching Certificate

GHETC-1001 (1.5) Planning and Preparing to Teach (3

hrs Lecture) This course includes the preparation of a course syllabus that involves the development of course objectives or course outcomes; preparation for teaching a course; philosophy of teaching and learning; evaluation; creating an assessment rubric; defending your assessment decisions; and issues related to course delivery. As part of this course, participants prepare a Teaching Point Of View (TPOV), Teaching Dossier and Curriculum Vitae (CV).

GHETC-1002 (1.5) Teaching and Presenting in an Academic S Setting (3 hrs Lecture)

This course provides students with the opportunity to acquire a set of teaching strategies ranging from direct to highly interactive, facilitative ones. As a result, they learn how to teach not just to their students but also for, with and by them and meet both students' and instructors' cognitive and affective needs. An important feature of this course is that all participants are provided opportunities to practice these diverse strategies and receive thoroughgoing feedback, including videotape feedback.

GHETC-1003 (1.5) HETC Practicum (3 hrs Project /

Thesis) In this practicum, students attend and engage in the following teaching and learning experiences: discipline-related workshops, conferences and/or departmental meetings/events. These experiences are journaled and students participate in a supervised teaching experience of at least 9 hours involving classroom, seminar and/or lecture classes. The teaching experience includes mentored experiences through the processes of the preparation of a teaching plan, an assessment of the teaching and of the students' progress.