

CMPT 421 Special Topics - Senior Collaborative Project (1–6 sem. hrs.)

A major collaborative software project in a chosen area of Computing Science with a final report and presentation. At least two, and normally not more than five people work as a team to design, code, debug, test, and document the software.

NB: The choice of CMPT 420 or 421 depends on the instructor's assessment of the proposed project's size and complexity.

Cross-listed: ISYS 421

Prerequisite(s): CMPT 419, a related directed study, or instructor's consent.

CMPT 430 Numerical Analysis II (3 sem. hrs.)

Numerical solution of systems of equations; eigenvalues; approximation theory; non-linear systems; boundary-value problems; numerical solution of partial differential equations.

NB: Not offered every year. See Department chair.

Cross-listed: MATH 430.

Prerequisite(s): CMPT 330 or MATH 330. (3-0 or 3-0)

CMPT 480 Ethical and Social Issues in High Technology (3 sem. hrs.)

A study from a Christian context of some historical, social, and ethical issues relating to the development and use of scientific ideas and techniques. Science and technology are examined in their total social, historical, and intellectual contexts, with a view to tracing, in possible new developments, what the key issues are today. Students are challenged to think through the issues from more than one point of view and to learn how to determine appropriate Christian responses to them.

NB: Not offered every year. Offered only in fall semester. See Department chair. This course may be substituted for IDIS 400 and/or NATS 487, but not NATS 490. Students need to take both CMPT 480 and NATS 490 to meet the core requirement in upper level Interdisciplinary Studies. Students from other departments may take CMPT 480 as their IDIS 400 requirement, but they should be familiar with the history and/or the practice of science.

Cross-listed: ISYS 480

Prerequisite(s): Third year standing overall and at least one Computing Science or lab science course at the university level. (3-0; 0-0)

CO-OPERATIVE EDUCATION**COOP 110, 210, 310, 410, 420 Co-op Work Terms (0 sem. hrs.)**

These are the course numbers for Co-op work terms. The appropriate semester would coincide with the first digit, e.g., 110 would be the first semester of work experience for students in the Co-op program. Co-op terms provide an opportunity to integrate theory and practice. Requirements include completion of a work term report. Approval from The Career Development Office is required prior to registration for this course.

NB: Non-credit, Pass/Fail course.

COUNSELLING PSYCHOLOGY, GRADUATE COURSES

NB: Courses CPSY 501-695 are graduate courses. For further information about when courses are offered, see the School of Graduate Studies section or contact the Counselling Psychology Graduate Program Director.

CPSY 501 Advanced Statistics (3 sem. hrs.)

Provides an in-depth study of standard parametric and non-parametric statistical methods used in psychological research. Topics include multiple regression, ANOVA, different models of analysis of variance, analysis of covariance, multivariate

analysis of variance (MANOVA), and factor analysis.

NB: Limit 25 students.

Prerequisite(s): Undergraduate psychology course covering basic statistics.

CPSY 502 Research Design (3 sem. hrs.)

Provides an in-depth examination of quantitative and qualitative research methods available for the conduct of research in counselling psychology. Students are equipped to define and evaluate research problems, conduct literature searches, and critically evaluate published research and professional writing. Ethical and cultural considerations in research are also addressed.

NB: Limit 25 students.

Prerequisite(s): CPSY 501.

CPSY 504 Evaluating Statistics and Research (3 sem. hrs.)

This course prepares students to evaluate and critique statistics and research methods in Counselling Psychology, including learning about the use and misuse of basic quantitative and qualitative analytical techniques in counselling-related research and in program evaluation. The course also provides an introduction to ethical issues in research, and conducting critical reviews of the literature.

NB: Limit 25 students

CPSY 505 Foundations of Counselling Psychology (3 sem. hrs.)

Provides a critical introduction to scholarly literature on philosophical, cultural, historical, and theological issues related to counselling and psychotherapy. Students explore their personal worldviews in relationship to professional, biblical, and scientific standards and begin to formulate their approaches to serving in socially and culturally diverse professional settings.

NB: Limit 25 students.

CPSY 506 Theories of Counselling (3 sem. hrs.)

Critically evaluates major theories of counselling and psychotherapy in terms of their assumptions, research support, and applications. Such issues as cultural diversity, gender differences, and human development are discussed. Students are introduced to the process of integrating theories as they develop their own framework for counselling practice.

NB: Limit 25 students.

CPSY 508 Marriage and Family Therapy (3 sem. hrs.)

Utilizing a systems perspective, the course provides an opportunity for students to become familiar with, identify, and differentiate the major theoretical and therapeutic models assumed by contemporary theorists and practitioners of marriage and family therapy.

NB: Limit 25 students.

CPSY 510 Group Counselling (3 sem. hrs.)

An overview of the theory and application of group processes. The course provides participants with introductory group facilitation skills. It consists of an introduction to group dynamics, an introduction to the major models of group counselling and therapy, and a laboratory section to facilitate the development of group counselling skills and competencies. Ethics and cultural differences are also addressed.

NB: Limit 24 students.

CPSY 515 Career Counselling (3 sem. hrs.)

Provides a critical examination of major career development theories and research. The course also addresses a wide range of issues such as gender, culture, socio-economic status, age, and mental health concerns, as these issues relate to career. Students are introduced to a variety of career counselling strategies within the current labour market. In addition, students each complete a set of career assessment instruments, and interpret them for class partners.

NB: Limit 25 students.

CPSY 518 Research Seminar (3 sem. hrs.)

Exposes students to a number of significant research areas in counselling psychology and issues critical to the successful completion of thesis research. Students present their research ideas in class and develop a research proposal.

NB: Limit 25 students.

Prerequisite(s): CPSY 501.

Pre/Co-requisite(s): CPSY 502.

CPSY 522 Basic Principles of Assessment (3 sem. hrs.)

Covers basic principles of psychometrics as applied to the construction and validation of formal tests. Addresses ethical standards of test usage, multicultural assessment, and assessment paradigms. Students learn how to select appropriate tests for specific purposes, to conduct assessment interviews, and to synthesize qualitative and quantitative assessment information in normal personality assessment.

NB: Limit 25 students.

CPSY 590 Advanced Counselling Skills (3 sem. hrs.)

Engages students experientially using a laboratory format. Classes include conceptual presentations on advanced counselling skills, in-class demonstrations, and triad exercises designed to facilitate counsellor development. Students also analyze and transcribe portions of video recordings of sessions. Professional roles, functions, preparation standards, ethics, and cultural differences are addressed.

NB: Limit 25 students.

Prerequisite(s): Undergraduate psychology course covering basic empathy and communication skills.

CPSY 490 is recommended.

CPSY 591, 592 Practicum I & II (3, 3 sem. hrs.)

Individual and group clinical practice with intensive supervision totalling more than 100 clock hours over eight months. The course includes an average of one hour individual supervision and 1.5 hours of group supervision each week. Students must complete a minimum of 40 direct client hours, of which at least 10 hours must be group work. Any incomplete hours must be made up during internship placements. The practicum course is designed to be completed in teams of five students and a faculty supervisor. Practicum I and II must be completed consecutively.

NB: Limit five students per section.

Pre/Co-requisite(s): CPSY 506, 510, 590.

CPSY 593 Counselling Children and Youth (3 sem. hrs.)

Provides an introduction to the theories, techniques, and clinical applications of counselling children and adolescents with developmental, social, and behavioural challenges while respecting psychosocial diversity. Practical interventions and clinical conceptualization are emphasized while covering methods of establishing rapport, assessment, and developing goals for counselling. The course focus is on working with children and youth in diverse settings and family systems. Opportunities may be available for students to be involved in individual or group therapy with children under direct supervision.

NB: Limit 25 students.

Pre/Co-requisite(s): CPSY 590 and 510.

YEAR TWO**CPSY 602 Qualitative Research Methods (3 sem. hrs.)**

Provides an in-depth exploration of all stages of conducting qualitative research, from formulating an appropriate research question to dissemination of findings. A range of qualitative strategies, representing multiple paradigms, is examined.

NB: Limit 25 students.

Pre/Co-requisite(s): CPSY 502.

CPSY 603, 604 Thesis I & II (3, 3 sem. hrs.)

Students are required to complete an M.A. thesis that passes an examiner external to the University who is expert in the particular area of the thesis. The thesis must be defended orally before an examination committee. Students may complete one of three types of theses. Students who

intend to pursue a Ph.D. degree are advised to complete an empirical thesis (1 or 2):

- 1) Quantitative Thesis – Typically involves experimental or correlational investigation, and employs quantitative analysis and inferential statistics.
- 2) Qualitative Research – Includes a variety of qualitative methods in collecting and analyzing data. Typically, the focus is on phenomenological experience.
- 3) Theoretical-Integrative Thesis – Requires a critical review of relevant research and the development of an integrative model that attempts to encompass available data and competing theories.

Students normally choose their area of research with help from the Thesis Co-ordinator and other faculty after their second semester in the program. Visit the program's website at www.twu.ca/cpsy to view some thesis topics.

Prerequisite(s): CPSY 501, 502, and 518, and permission.

CPSY 605 Program Continuation (0 sem. hrs.)

(a) Students who are completing a thesis are required to register for Continuation for every term subsequent to CPSY 604 until the thesis has been deposited, in addition to any other courses that are being taken.

(b) All students are required to enrol in Program Continuation in every term, fall, spring, and summer, during which they are not registered for another required course in their degree program. Students registered in CPSY 695 or CPSY 000 should also register for CPSY 605 Program Continuation in the same term.

Prerequisite(s): At least one CPSY course.

CPSY 607 Psychopathology (3 sem. hrs.)

An overview of current conceptualization, diagnostic assessment, etiology, and treatment of emotional distress. Historical, biological, sociological, neuropsychological, cultural, and psychological theories and processes involved in the ongoing discourse around psychopathology are examined through the use of historical and current research articles, the Diagnostic and Statistical Manual of Mental Disorders-IV-Text Revision (DSM-IV-TR), case studies in print and media, and guest presentations. In addition, “evidence-based” treatments of the more commonly understood mental illnesses, and the social justice and ethical issues involved in the treatment of emotional distress is a focus of discussion.

NB: Limit 25 students.

CPSY 609 Seminar on Ethical Integration (3 sem. hrs.)

This course thoroughly examines the laws and ethics that guide practitioners in the field of counselling psychology. Students are expected to grapple with complex issues that arise when confronted with ethical dilemmas in a variety of professional contexts. Since ethical and legal principles are not the only standards by which counsellors make decisions, students are challenged to integrate these guidelines with their personal values and spiritual beliefs, as well as clinical judgments and multicultural considerations.

NB: Limit 25 students.

Prerequisite(s): CPSY 505, substantial completion of CPSY 691 hours, and 45 sem. hrs. earned in the CPSY program.

CPSY 613 Crisis Counselling (3 sem. hrs.)

Focuses on the theory, interventions, and research relevant to providing crisis management services with people experiencing situational, transitional, and cultural/socio-structural crises. The course, based on a psycho-socio-cultural perspectives, explores the interaction of crises with situational factors, developmental status, family dynamics, ethnicity, and gender. The course involves exploration of interactions between crises and situational factors, developmental levels, family dynamics, ethnicity, and gender, as well as both didactic and skills development components.

NB: Limit 25 students.

CPSY 616 Family Systems: Advanced Marriage and Family Counselling (3 sem. hrs.)

Offers an advanced study of marriage and family therapy, including study of research foundations and skills in current practice of couples and family therapy. Focuses on issues related to marriage and family (e.g., divorce, violence, sexual abuse, addictions, family diversity, etc.) and addresses the formation of the therapist in marriage and family therapy and in human systems. Critically examines post-modern constructivist perspectives and other approaches to marriage and family therapy.

NB: Limit 25 students.

Prerequisite(s): CPSY 508.

CPSY 622 - Psychological Assessment and Test Interpretation (3 sem. hrs.)

Evaluates different approaches to assessment as well as the theoretical, empirical, and practical foundations of psychological assessment. Overviews ethical, legal, and cultural facets of psychological assessment. Students are introduced to selected cognitive and personality/behavioural assessment instruments. The course includes training in administration of widely used intellectual assessment tools (e.g., Wechsler scales), interpretation of test score profiles, and report writing and interpretation. Professional standards and ethical use of standardized assessment tools are emphasized. Multicultural and multilingual issues in assessment are addressed.

NB: Limit 25 students.

Prerequisite(s): CPSY 522.

CPSY 624 Counselling in Diverse School Settings (3 sem. hrs.)

Examines the foundations of counselling in various school settings, including elementary and secondary schools, and college counselling, and explores relevant issues and challenges relating to diverse learners, community contexts, and the changing ecology of education in Canada. This skill-building course emphasizes legal and ethical standards of practice and the importance of developing a comprehensive counselling program for students. The class sessions are interactive and experiential, providing opportunities for critical discussion, site visits, and professional consultation.

NB: Limit 25 students.

CPSY 630 Advanced Topics in Legal and Ethical Issues (3 sem. hrs.)

Examination of paradigms and developments in professional ethics. This course builds on the professional ethics training infused throughout the curriculum, including topics in legal issues, family therapy, professional psychology and counselling, consultation, and client advocacy. International developments are addressed in professional mobility and regulations, competency standards, and multicultural contexts of professional standards. Emphasis is placed on fostering student proficiency in navigating licensure requirements and fostering accountability in professional practice.

NB: Limit 25 students.

CPSY 633 Addictions Counselling (3 sem. hrs.)

Current theories and treatments of addictive behaviour are reviewed, and the impact of addiction upon family systems and other relationships is particularly stressed. Content includes reviews of the effects of mood-altering substances on the body, and therapy modalities for both chemical and process addictions. Co-occurring disorders are addressed, and students are introduced to agency settings where addiction treatment is offered.

NB: Limit 25 students.

CPSY 634 Sexual Abuse Counselling (3 sem. hrs.)

A survey of the literature on the assessment and treatment of sexual abuse and sexual assault. Emphasis is placed on psychological assessment and interventions for persons with sexual abuse-related disorders. These include: PTSD, Dissociative Disorders, Somatoform Disorders, Eating

Disorders, and Substance Abuse Disorders. Neuropsychology of psychological trauma, along with relational, cultural, and sociological influences will also be discussed.

NB: Limit 25 students.

CPSY 635 Family Violence Counselling (3 sem. hrs.)

A study of the current literature, assessments, and interventions for persons involved in physical abuse situations.

NB: Limit 25 students.

CPSY 640 M.A. Non-thesis Comprehensive Exam (MANTCE) (3 sem. hrs.)

Students are expected to successfully formulate and articulate informed and integrative judgments about a range of ethical and professional practice questions encountered in counselling psychology.

NB: Limit 25 students.

Prerequisite: Completion of at least 51 sem. hrs. in the CPSY program, and permission of the Program Director.

CPSY 655 Advanced Special Topics in Counselling Psychology (3 sem. hrs.)

An in-depth examination of special topics or issues in counselling psychology.

NB: Not offered every year. Limit 25 students.

CPSY 660 Advanced Topics in Multicultural Counselling (3 sem. hrs.)

Exploration of topics such as the significance of culture, migration, social class, race, language, and ethnicity for human health and well-being. This course builds on multicultural counselling and diversity awareness principles infused throughout the master's program. Both theory and interventions for addressing bicultural identity development, advocacy, acculturation stress, and barriers to help-seeking and counselling effectiveness. Critical appropriation of professional literature, competencies models, and intersections with other aspects of diversity are emphasized.

NB: Limit 25 students.

CPSY 670 Psychopharmacology (3 sem. hrs.)

An introduction to principles of pharmacology and the use of pharmacological agents for the treatment of psychological and neuropsychiatric conditions. Reviews basic physiological and biological aspects of psychopathology. The course does not prepare a student for the practice of pharmacology, however it does enhance the students' ability to communicate more effectively with physicians and assist them in participating in multidisciplinary and interdisciplinary settings.

Prerequisite(s): CPSY 607.

CPSY 691, 692 Supervised Internship (3, 3 sem. hrs.)

Students are required to complete a minimum of 600 hours of approved internship, 240 hours of which are in direct service with clients. This provides students with opportunities to refine basic assessment and counselling skills as well as develop specialized areas of interest. The internship is regarded as a summative clinical experience leading to the master's degree in Counselling Psychology. The primary objective of the internship is to provide an opportunity for integration and practice of knowledge and skills in a professional counselling setting. In addition to the on-site requirements for internship, a reading list and a bi-weekly seminar are required to ensure that students are familiar with professional, ethical, and legal issues. Participation in the seminar counts towards the 600 hours required for internship.

Prerequisite(s): CPSY 591, 592

CPSY 695 Internship Continuation (0 sem. hrs.)

Students are required to register for Internship Continuation for every term subsequent to CPSY 691 until 120 direct clinical hours have been completed during internship and have been documented. In addition, students are required to register for Internship Continuation for every term subsequent to CPSY 692 until all required direct clinical hours for the entire program have been completed and documented.

Prerequisite(s): CPSY 691.

DIRECTED STUDIES**CPSY 650, 651 Directed Studies (3 sem. hrs.)**

For students who want to explore academic areas of special interest not provided in the existing curriculum. These areas must be related to the discipline of Counselling Psychology. Students normally take a maximum of one directed study per semester. A maximum of three directed study courses may be applied to completion of the M.A. degree.
Prerequisite(s): Permission of Program Director

LEAVE OF ABSENCE**CPSY 000 – Leave of Absence (0 sem. hrs.)**

Students who have been granted a leave of absence are required to enrol each semester, fall, spring, and summer for the duration of their leave.
Prerequisite(s): Permission of Program Director

ECONOMICS**ECON 110 Business in the Global Market (3 sem. hrs.)**

An introduction to global business practices. A survey of governmental and corporate practices of major economic systems — Japan, Europe, Pacific Rim, Rhine countries, etc. Different cultural meanings of concepts such as globalization, world class, nimble organizations, empowerment, and teams are explored. The class provides the students with experiential as well as classroom learning to provide a better grasp of the differences in cultures and the adaptation of business concepts.

NB: Offered when available in summer with overseas travel component.

Cross-listed: BUSI 110.

Prerequisite(s): Permission of the instructor. Open to both Business and non-Business majors.

ECON 201 Principles of Microeconomics (3, 3 sem. hrs.)

A fundamental understanding of how economists view the world, how people make decisions and how people interact with one another. Basic economic analysis of consumers' behaviour, firms' production behaviour, and market equilibrium. Graphical analysis.

Prerequisite(s): Second year standing or instructor's consent; knowledge of spreadsheet software. (3-0; 3-0)

ECON 202 Principles of Macroeconomics (3, 3 sem. hrs.)

Basic lessons of macroeconomics, where the economic growth and economic fluctuations are studied. Issues such as GDP, CPI will be discussed. Long-run trend and causes of economic growth rate, unemployment rate and inflation rate will be examined. Short-run fluctuations of an economy around the long-run trend. Government responses to the short-run fluctuation of an economy, namely monetary and fiscal policy. Exchange rate, current account and capital flights in an open economy context.

Prerequisite(s): Second year standing or instructor's consent. (3-0; 3-0)

ECON 230 Issues in Third World Development (3 sem. hrs.)

A study of issues relating to economic disparity among people of various nations and of responses to this situation. The course is open to students from all disciplines.

Prerequisite(s): None. (3-0 or 3-0)

ECON 275 Business Statistics (3 sem. hrs.)

Statistical tools and knowledge necessary for success in business endeavours. Descriptive statistics, probability (with discrete and continuous distributions), hypothesis testing, regression, and ANOVA. Students will learn theory behind the methods, and will primarily use spreadsheets as tools for solving advanced problems.

Cross-listed: BUSI 275.

Prerequisite(s): MATH 120 or 101; or instructor's consent. (3-0; 3-0)

ECON 276 Quantitative Analysis (3 sem. hrs.)

Mathematical modeling principles, concepts, and algorithms used in business problem formulation and solution interpretation. Linear, non-linear, and goal programming, project management, decision theory, simulation, queuing, forecasting, and inventory control models. The course also discusses the relationship to modern information systems.

Cross-listed: BUSI 276.

Prerequisite(s): BUSI/ECON 275. (3-0; 3-0)

ECON 301 Intermediate Microeconomics (3 sem. hrs.)

The main principles and techniques of price theory and its practical applications. Major topics include price, production and distribution theories, the theory of the firm, risk and uncertainty, game theory, and transaction costs. New developments and/or approaches to microeconomics analysis.

Cross-listed: BUSI 301.

Prerequisite(s): ECON 201, 202; MATH 120. (3-0; 0-0)

ECON 302 Intermediate Macroeconomics for Managerial Decision-Making (3 sem. hrs.)

The main concepts and methods usually used by economists to explain macroeconomic variables: inflation, unemployment, consumption, investment, foreign trade, monetary and fiscal policies, and economic growth. Classical and Keynesian macroeconomic models are studied and compared in terms of economic statics and dynamics.

NB: May not be offered every year.

Cross-listed: BUSI 302.

Prerequisite(s): ECON 201, 202. (0-0; 3-0)

ECON 304 Money and Banking (3 sem. hrs.)

The study of the role of money, monetary policy, and financial institutions in the Canadian and U.S. economies. Major topics include: interest rates, decision makers, financial asset prices, risk management, banking and financial institutions, and central banks and monetary policy.

Cross-listed: BUSI 304.

Prerequisite(s): ECON 201, 202. (3-0 or 3-0)

ECON 306 History of Economic Thought (3 sem. hrs.)

The development of the main concepts of economic theory. The role of the economic, political, social, and religious environments in the development of economic analysis. Contemporary problems in relation to the various alternative economic systems.

NB: May not be offered every year.

Cross-listed: HIST 306.

Prerequisite(s): ECON 201, 202. (3-0 or 3-0)

ECON 308 Canadian Economic Policy and Problems (3 sem. hrs.)

The identification and analysis of various kinds of Canadian economic problems: regional and provincial problems, agricultural and natural resource policies, unemployment, inflation, foreign/international policies, poverty, economic effects of population growth, decline, immigration/emigration, labour unrest, social problems, and industrialization strategies. Emphasis is on current and pertinent economic problems.

NB: May not be offered every year.

Prerequisite(s): ECON 201, 202. (3-0 or 3-0)

ECON 311 International Business (3 sem. hrs.)

The concepts of international trade theories and the role of multinational enterprises in fostering trade across international borders. The political, economic, and cultural environment of international business, global strategies, international competitiveness, country risk analysis, international logistics, marketing, finance, and personnel decisions.

NB: May not be offered every year.

Cross-listed: BUSI 311.

Prerequisite(s): Third year Business or Economics standing. (3-0 or 3-0)