

UWindsor Minors for LAPS Students
updated August 2017

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Total Courses: 6

- a) 48-100 or 48-110
- b) 48-213 or 48-215
- c) 48-220
- d) three of: 48-323, 48-336, 48-338, 48-339, 48-356 or 48-391, 48-412, 48-415, 48-419

48-100. Understanding Social Life

Understanding society through the exploration of contemporary social issues. (48-100 is intended as a course for students who are not majors or minoring in Sociology, Criminology, Anthropology, and Family and Social Relations programs.) (Students who complete 48-100 may subsequently enroll in 48-110 for credit.)

48-110. Foundations of Social Life

This course will introduce students to the key concepts, theories, and methods appropriate to Sociology, Anthropology, and Criminology. Focus will be on application of issues important to studying social life using multiple perspectives while exercising the sociological imagination. Topics may include discussion of culture, gender, social stratification, race and ethnicity, family, and crime and deviance. (Open only to Program Majors and Minors in the Department of Sociology, Anthropology, and Criminology). (48-110 is a prerequisite for all 200 level courses and above in the Department). (Students who complete 48-110 may not subsequently enroll in 48-100 for credit). (Credit may not be obtained for both 48-110 and 48-101/48-102.)

48-213. Perspectives on Culture

An examination of the emergence, development, meaning, and idea of culture. The different ways the concept is used in applied anthropology and sociology, ethnographic research, and popular discourse are discussed. (Prerequisite: 48-100 or 48-110/101.) (Credit may not be obtained for both 48-213 and 49-213).

48-215. Principles of Physical Anthropology

A study of humans as biological beings, humans in evolutionary context and their specializations; their nearest living relatives and varieties. Sources and the nature of variations in living human populations; significance of the variations and the concept of race; approaches to the problems of evolution of human populations. (Prerequisite: 48-100 or 48-110/101 or consent of the instructor.) (Credit may not be obtained for both 48-215 and 49-215).

48-220. Social Dilemmas: Social Science Perspectives

This course will examine major sociological issues facing countries today, such as economic inequality, political polarization, racism and racialization, immigration, human rights, education, media, globalization, incarceration, precarious work, gender and family, and climate change. It will explore how social science research measures and tracks changes in these areas. It will examine, for example, how different ideologies, ethical frameworks, and political positions on these issues address these issues, and how public policies, popular media, and politicians use social science research. (Prerequisite: second-semester standing).

48-323. Forensic Anthropology

An overview of anthropological methods as applied to death investigations. Topics may include detection, recovery, and examination of human remains; problems of identification and individualization; and the reconstruction of events that occurred around the time of death. (Prerequisite: 48-215, and semester 5 or higher standing.) (Credit may not be obtained for both 48-323 and 49-323).

48-336. Health, Culture and Society

A survey of the social, cultural and political dimensions of health, drawing on both anthropological and sociological perspectives. The course provides a global perspective to address multiple issues in the study of health and illness, including relations between culture and health, the political economy of health, and globalization and health. Topics may include: specific health issues, different models of health, critical analysis of Western medicine/health models, and HIV/AIDS studies. (Prerequisites: 48-291/202 or 48-213, and semester 5 or higher standing.) (Credit may not be obtained

for both 48-336 and 49-336).

48-338. Material Culture

An examination of the representation and interpretation of the material artifacts of culture in a global context, including theoretical approaches to objects and cultural products. Topics may include cultural products and commodities, places and museums, media and visual displays, and consumption and technologies. (Prerequisites: 48-213 or 48-291/202, and semester 5 or higher standing). (Credit may not be obtained for both 48-338 and 49-338).

48-339. Migration in the Globalized World

An examination of the relationship between migration, culture and globalization. It explores the way migrants draw on and change cultural practices in 'host' countries such as Canada. It also analyzes labour migration in the context of the global political economy as well as the global management and integration of immigration. Topics may include migrant rights, identity formation, political movements, cultural struggles; generational tensions, trans-national practices and multicultural politics. (Prerequisites: 48-213, 48-227 or 48-240, and semester 5 or higher standing). (Credit may not be obtained for both 48-339 and 49-339).

48-356. Cultural Theory

Through a selective examination of social theory, this seminar examines key ideas that inform identities and reflect contemporary issues. Topics may include: race, culture and ethnicity, colonial and post-colonial theory. (Prerequisite: 48-213 and semester 5 or higher standing) (Credit may not be obtained for both 48-356 and 49-356).

48-391. Contemporary Social Theory

Investigates influential contemporary approaches to understanding and explaining social life. Emphasis is placed on epistemology, ontology and normativity, and on critically evaluating and creatively using theory. Theories covered may include Symbolic Interactionism, Structural-Functionalism, Phenomenology, Structuralism, Neo-Marxism, Psychoanalysis, Feminism, Postmodernism, and Postcolonialism among others. (Prerequisite: 48-291/202, 48-290/210 (or equivalent), and semester 5 or higher standing.)

48-412. Human Skeletal Variation

This course is an advanced critical review of theories and methods for collecting, analyzing, and interpreting data from human skeletal remains in bioarchaeological (paleopathology, paleodemography, etc.) and forensic contexts. Students will learn to pursue a biocultural approach for the study of human skeletal variation. (Prerequisite: 48-323, 48-391/302 or 48-356 or 48-373; 48-390/310 (or 48-355), 48-308 and semester 7 or higher standing, or consent of instructor.) (Students can not receive credit for both 48-412 and 49-412). (Credit may not be obtained for both 48-412 and 49-412).

48-415. Advanced Seminar in Culture, Power, and Globalization

A critical and substantive examination of culture in a global context, including cultural practices, political economy and culture, culture and representation and culture and identity. Topics may include: material culture, commodities and cultural products; colonialism; globalization; ideas of place and time; transnational networks. (Prerequisites: 48-391/302 or 48-356 or 48-373; 48-390/310 (or 48-355), 48-308 and semester 7 or higher standing, or consent of instructor.) (Credit may not be obtained for both 48-415 and 49-415).

48-419. Advanced Seminar in Public Anthropology

Contemporary approaches to "real world" problems, political struggles, and social debates. Questions about the role of anthropologists (as advocates, activists, applied researchers and writers) are explored within the shifting contexts of global and community dynamics. Students will consider how ethnographic knowledge informs contemporary publics. Topics may include: identity politics, post-colonial struggles, development and health research, social policy, and popular culture. (Prerequisites: 48-391/302 or 48-356 or 48-373; 48-390/310 (or 48-355), 48-308 and semester 7 or higher standing, or consent of instructor.) (Credit may not be obtained for both 48-419 and 49-419).

Total Courses: 6

- a) 51-160
- b) five of: 51-200, 51-260, 51-261, 51-360, 34-329, 48-341

51-160. Animals and Humans in Society

This course will explore and consider the different types of relationships between animals and humans in contemporary society from a variety of physical, social, and psychological perspectives. Topics may include companion animals, animal rights and welfare, animals and food and entertainment, human-animal violence, and animal-assisted therapy. (Can be taken for either Social Science or Arts credit).

51-200. The Paw & the Pen: Animals in Literature

This course explores the varying and significant ways in which animals are represented in literature. Throughout Western literary history, animals appear in a variety of images, symbols, characters, and themes, which can be studied from a wide array of critical perspectives: natural realism; animal society; anthropomorphism; pests vs. pets; “owned” beings vs. companions; ecocriticism; cultural icons; and ethically and morally. The way in which animals both influence and reflect societal values is examined through human-animal relationships portrayed in selected texts, through class discussion and written analysis. (Can be taken as either a Social Science or Arts option.) (Prerequisite: 51-160 for Minor in Anthrozoology only.) (Open to English majors with semester 3 standing.)

51-260. Animals For Sport and Entertainment

Building on *Animals and Humans in Society* (51-160), this course will focus on many of the issues, controversies, and paradoxes, which are inherent to human relationships with animals as companions, for human entertainment, and animals in sports. Students will be expected to engage in meaningful discussions and readings, both verbally and through their own writing, applying different perspectives (ie. historical, sociological, cultural, etc.) to relevant topics. Potential topics for this class include: animal fighting as entertainment (cockfighting, dog fighting, bullbaiting, etc.); zoos and aquaria; circuses and rodeos; pedigree dogs and dog shows; and racing (greyhounds and horses). (Prerequisite: 51-160 or 02-160). (Can be taken as either a Social Science or Arts option).

51-261. Animals and the Law

This course, for undergraduate non-law majors, focuses on the role of law in human-animal interactions and the balancing of competing interests within traditional areas of law. Students will explore and debate the major issues surrounding animal welfare, rights, and protection, including the legal status of animals as living property, and the evolving societal beliefs and values surrounding these issues. The course will primarily focus on examining and comparing the laws of Canada and the United States, although laws and constitutions of other countries, as well as international law, will also be considered. (Prerequisite: 51-160). (Can be taken as either a Social Science or Arts option).

51-360. Special Topics in Anthrozoology

This course focuses on a selected topic in Anthrozoology, which may vary according to special faculty interests and/or significant current issues. Among others, topics could include: *Animals in the Arts*; *Companion Animals*; *Human-Animal History*; *Politics and Animals*; *Food and Sustainability*; *Zoos*; *Animals in Religion*, etc. (Prerequisite: 51-160). (2 lecture hours a week). (May be repeated for credit, with permission of the instructor, if content is different). (Can be taken as either a Social Science or Arts option).

34-329. Animals and Ethics

The course examines philosophical views about our relationship to animals and the relation of these views to the evaluation of moral principles and ethical theories, including notions of justice and rights. It may cover such topics as: attitudes towards animals, animal awareness and autonomy, whether moral consideration should be extended to animals, whether animals have rights. (Prerequisites: Semester 3 standing and at least one prior Philosophy course, or permission of the instructor.)

48-341. Human-Animal Studies

A sociologically-informed examination of the growing field of human-animal studies, focusing on the effects of social, legal, political, economic, technological, and cultural change on our relations with and representations of nonhuman animals. Topics covered may include examining the socio-political constructions of animals, policies governing the (ab)use of animals, consumptive practices involving animals, use of animals for leisure and entertainment, and intersectional conceptions of social, environmental and species justice. (Prerequisites: semester 5 or higher standing.)

Total Courses: 6

Students must maintain an average of 60% or better in all 6 courses.

- a) 60-104
- b) 60-106 or 60-140
- c) 60-205
- d) 60-207
- e) two of: 60-209, 60-270, 60-305, 60-307

60-104. Computer Concepts for End-Users

Introduction to the concepts of operation of a computer system, including hardware and software. Development of conceptual understanding of word processors, databases, spreadsheets, etc., and practical experience with their use. Networking concepts and data communication concepts will be introduced. The Internet will be introduced with students having access to internet resources. Management information systems including the systems development lifecycle will be discussed. Fundamental concepts of algorithm development and programming will be introduced. Hands-on experience with microcomputers as well as a distributed-computing environment will be involved. In addition to lecture time, laboratory/tutorial time may be scheduled as required. (May not be used to fulfill the major requirements of any major or joint major in Computer Science.) (3 lecture hours)

60-106. Programming for Beginners

This course introduces fundamental computer programming principles and structured programming concepts, with an emphasis on good programming. Stages of the software development cycles are introduced: analysis, design, implementation, debugging and deployment. May not be used to fulfill the major requirements of any major or joint major in Computer Science.) (3 lecture hours).

60-140. Introduction to Algorithms and Programming I

This course is the first of a two-course sequence designed to introduce students to algorithm design and programming in a high-level language such as C. The main objectives of the course are to develop the ability to identify, understand and design solutions to a wide variety of problems. Topics include: computer system overview, hardware and software, problem solving steps, concepts of variables, constants, data types, algorithmic structure, sequential logic, decisions, loops, modular programming, one-dimensional arrays, text files. If possible, problems like searching/sorting will be addressed. (3 lecture hours and 1.5 laboratory hours a week)

60-205. Introduction to the Internet

Students will be introduced to the Internet as a global information infrastructure, including the development of early and current communication protocols and services, packaging of data, and data transmission. Fundamental concepts of and tools to support Internet browsing through concepts of Universal Resource locators and Hypertext Markup Languages will be included. Students will be required to publish a website on the Internet using HTML. Web page enhancement through the use of JavaScript and other tools will be introduced. The functionality of electronic mail and bulletin board services will be introduced with hands-on experience in sending and receiving information, automated title searching, and an introduction to organizing information to be accessible over the network. Technical methods of binary data transfer on analog carriers will be introduced and comparison of Ethernet and ATM fibre-optic digital delivery will be discussed. In addition to lecture time, laboratory/ tutorial time may be scheduled as required. (Prerequisite: 60-104 or 60-106 or 60-140.) (May not be used to fulfill the major requirements of any major or joint major in Computer Science.) (3 lecture hours a week)

60-207. Problem Solving and Information on the Internet

Students will be introduced to logic and critical appraisals including reasoning skills and critical thinking in the computer age. Problem solving and heuristics will be discussed including how to solve problems by coming up with the right strategies. Searching using Boolean logic to pinpoint useful and reliable information will be introduced. Methods for being self-critical and critical of web information in order to perform evaluations will be studied. (Prerequisites 60-104 and 60-205.) (This course may not be taken to fulfill the major requirements of any major or joint major in Computer

Science.) (3 lecture hours a week.)

60-209. Social Media and Mobile Technology for End Users

This course provides review, analysis and use of social media and mobile technologies such as blogs, Facebook™, twitter™, texting, using mobile devices such as laptops, Apple devices, RIM devices, Android devices. Topics to be covered include: a comprehensive review of available social media and mobile technology, use of social media and mobile technology for sharing of knowledge and for group interaction, security and privacy, methods for analyzing end-user requirements for a social media application, and strategies for designing and building a social media application. (This course may not be taken to fulfill the major requirements of any major or joint major in Computer Science.) (3 lecture hours a week.)

60-270. Advanced Web Design, Construction, and Deployment

This course is intended to teach the student about advanced website creation and to give an understanding of some of the technology behind websites, as well as an understanding of emerging web-related technologies. Topics covered will include JavaScript, Style Sheets, Dynamic HTML, XML, XHTML, Web Browser compatibility issues, and how web servers work. (Prerequisite: 60-205.) (This course may not be taken to fulfill the major requirements of any major or joint major in Computer Science.) (3 lecture hours a week)

60-275. Selected Topics I

Topics may differ from year to year. (Prerequisite: 60-100 or 62-140, and 60-141.) (May be repeated for credit if content changes.) (3 lecture hours or equivalent.)

60-305. Cyber-Ethics

A number of key concerns about social welfare in our cyber age will be explored. Law, morality, public policy, and how these both influence and are influenced by the Internet will be examined. This course will critically appraise issues surrounding, but not limited to, free speech, property rights (especially intellectual property), privacy, security, and artificial intelligence. Issues raised by ethical theorists, policy makers, legal experts, and computer scientists will be analyzed in this course. (Prerequisites: 60-104 and 60-205.) (This course may not be taken to fulfill the major requirements of any major or joint major in Computer Science.) (3 lecture hours a week)

60-307. Web-Based Data Management

This non-major course is intended to teach students how to design and build interactive data-driven Web sites, by extending their knowledge of relevant programming concepts and techniques introduced in 60-270, and introducing new tools and techniques. Students will learn advanced use of PHP and MySQL to build objects and “glue” them together using protocols such as JSON, code libraries such as AJAX and jQuery, and learn how to incorporate API’s from Web service providers such as Google Maps. (Prerequisite: 60-270). (This course may not be taken to fulfill the major requirements of any major or joint major in Computer Science.) (3 lecture hours a week.)

The Minor in Arabic Studies is offered in either a language intensive or culture intensive stream.

Total courses: 6

- a) 08-110 and 08-111; (Those with prior language proficiency cannot register for these courses and will have to take 08-210 and 08-211 in their place.)

Language Stream:

- b) 08-210, 08-211;
c) two of: 08-261, 08-262, 29-283, 29-358, 45-261, 45-365, 53-106.

Culture Stream:

- b) four of: 08-261, 08-262, 29-283, 29-358, 45-261, 45-365, 53-106.

08-110. Introduction to Arabic I

Introduces vocabulary and the basic elements of Arabic language structure. Students will acquire a basic level of expertise in the four communication skills: listening, speaking, reading and writing. (Only for students with no prior knowledge of Arabic. Students may not obtain credit for this course and the former 07-110)

08-111. Introduction to Arabic II

This course is the continuation of "Introduction to Arabic I". It is designed to increase vocabulary, enhance knowledge of the elements of Arabic language structure and provide additional oral (listening and speaking) and written (reading and writing) communication skills. (Prerequisite: 08-110 or the former 07-110, or permission of instructor. Students may not obtain credit for this course and the former 07-111)

08-210. Intermediate Arabic I

The course targets the four basic language skills of modern standard Arabic: listening, speaking, reading, and writing. Reading and writing assignments in this class will expose students to a large variety of vocabulary and topics in religion, culture, and politics. Students are expected to read, to report on written material in Arabic (newspapers, comics, magazines), and to listen to Arabic news and songs. The ultimate objective of the course is to help them to acquire and to apply language tasks such as paraphrasing and summarizing short texts, communicating their points of view in writing and speaking, as well as describing and narrating events. (Prerequisite: 08-110 and 08-111, or permission of instructor.)

08-211. Intermediate Arabic II

This course will serve as a continuation of Intermediate Arabic I with equal emphasis on speaking, reading, oral and aural skills. The course will cover advanced aspects of grammar and structure of modern written Arabic. Selected readings from contemporary Arabic culture and politics will be introduced into the curriculum and will serve as basis for reading and conversation. (Prerequisite: 08-210, or permission of instructor.)

08-261. Introduction to Arabic Culture

An interdisciplinary cultural studies course surveying the complex history that has shaped Arabic culture and the major forces that continue to effect changes in Arabic culture. (The course is offered in English.)

08-262. Modern Arabic Literature

A survey of modern Arabic literature (in English translation). Selected texts are studied as literature with constant reference to the social, cultural and political contexts in which they were written. Students are introduced to the major modern Arabic genres and discursive practices, with particular emphasis on poetry and fiction, as well as major Arabic literary and intellectual figures. (The course is offered in English.)

29-283. Introduction to Francophone Culture of the Maghreb and the Middle East

An introduction to contemporary francophone culture in North Africa (Morocco, Algeria, and Tunisia) and the Middle East (Lebanon), largely through the study of films, popular music, media, newspapers, art exhibits and/or television programs as well as theoretical works that formulate the (post)colonial discourse. (Prerequisites: 29-121).

29-358. Francophone Literature of the Maghreb and the Middle East

Introduction to Francophone literature of the Maghreb (Morocco, Algeria, Tunisia) and the Middle East (Lebanon)
(Prerequisite: 29-141)

45-261. Politics, History, and Western Religions

An introduction to Judaism, Zoroastrianism, Christianity, Islam, and BaHai, with attention to their role in history and politics.

45-365. The Middle East in International Relations

The nature and causes of the various conflicts in the region, the role of outside powers and international organizations, and the prospects for conflict resolution. (Prerequisite: 45-160 or consent of instructor.)

53-106. Women and Religion

A comparative, feminist-critical exploration of the status of women and women's religious experience in selected examples of traditional (*e.g.*, Judaism, Christianity, Islam, Hinduism, Buddhism) and non-traditional (*e.g.*, Goddess religions, Wicca, Feminism) religions, ancient and modern. (Can be taken for either Social Science or Arts credit.)

Total courses: 6

- a) one of 27-105, 27-106, 27-107, or 27-108
- b) 28-150
- c) 28-214
- d) 28-215
- e) two additional Art History courses

27-105. Studio Practice and Ideas/Space

An investigation of the principles, vocabulary and concepts of space-based art, including but not limited to sculpture and installation. Using traditional and contemporary materials, processes and practices, students will gain knowledge and experience through the exploration of the creative possibilities of three-dimensional space. (Lab Fees may apply.)

27-106. Studio Practice and Ideas/Image

An introduction to the fundamental skills and critical concepts of visual perception and production common to all areas of 2 dimensional image-making. Basic principles of composition and design, light and pigment-based colour theory, as these apply to painting, photo-based processes, and print production. Their use and application will be explored within the contemporary art context. Class projects may involve inter-disciplinarity between these media. Studio assignments are combined with related critical theory, historical practice and current strategies.

27-107. Studio Practice and Ideas/Drawing

An investigation of a variety of drawing processes, materials and concepts in a studio environment that fosters exploration. (Lab fees may apply.)

27-108. Studio Practice and Ideas/Time-Based

An investigation of the principles, vocabulary and concepts of time-based arts including digital media. Students will gain knowledge of the creative possibilities of emerging technologies and will develop a basic understanding of methods, tools and techniques of time-based media.

28-150. Contemporary Visual Culture

A critical investigation of the visual imagery and artifacts of contemporary culture. Drawing upon examples from TV, advertising, cinema, cyber culture, architecture, design and art, students are introduced to such concepts as spectacle, kitsch, simulacrum, hypertext paradigm. (Lab fees may apply.)

28-214. Survey of Art History: Ancient to Medieval

History of art from prehistoric through medieval, with an introduction to composition, the language of the plastic arts and its relationship to culture. (Students cannot receive credit for both 28-114 and 28-214.)

28-215. Survey of Art History: Renaissance to Modern

History of art from Italian Renaissance to the twentieth century, with emphasis on the influence of social and philosophical ideas. (Students cannot receive credit for both 28-115 and 28-215.)

[All Art History courses at UWindsor \(link\).](#)

Selected courses leading to the minor may not consist of anti-requisites to courses in the student's degree program. Students must also remember to select only courses, which may be otherwise counted for credit towards their degree programs. The following courses cannot be used towards the minor in Biochemistry: 59-201, 59-191, 59-232, 59-263, 59-332, 59-333.

An overall average of 67% or higher must be obtained, with no individual course having a grade lower than 60%.

Total courses: 7

- a) 59-140
- b) 59-141
- c) 59-230
- d) 59-261
- e) three of: 59-362, 59-363, 59-365, 59-391, 59-464, 59-466, 59-469, and/or 59-480

59-140. General Chemistry I

Introductory concepts in chemistry, including reactions of atoms, ions, and molecules, solution stoichiometry, thermochemistry, electronic structure of atoms, basic chemical bonding and molecular geometry, periodic properties of the elements, and the theory of gases. (Prerequisite: Grade 12 "U" Chemistry or equivalent (59-100), or consent of the instructor.) (3 lecture, 3 laboratory/tutorial hours a week.)

59-141. General Chemistry II

A continuation of 59-140 covering topics such as chemical kinetics, general equilibrium theory, acid-base theory, chemical thermodynamics, and introduction to organic chemistry. (Prerequisite: 59-140.) (3 lecture, 3 laboratory/tutorial hours a week.)

59-230. Introductory Organic Chemistry

Introduction to organic chemistry, with emphasis on structure, stereochemistry, and reactions of aliphatic and alicyclic compounds and their functionalized derivatives. (Prerequisites: 59-140 and 59-141, or 59-110.) (Antirequisite: 59-232.) (3 lecture, 3 laboratory hours a week.)

59-261. Organic Chemistry of Biomolecules

An extension of the principles covered in 59-230 to the structure and properties of organic molecules of biological significance (*i.e.*, proteins, nucleic acids and lipids). (Prerequisite: 59-230.) (3 lecture, 3 laboratory hours a week.)

59-362. Metabolism I

Catabolism and the generation of phosphate bond energy. Introduction to chemistry of life, principles of bioenergetics, glycolysis, glycogen breakdown, citric acid cycle, electron transport/oxidative phosphorylation, pentose phosphate pathway, fatty acid oxidation - ketone bodies, amino acid degradation energy metabolism. (Prerequisite: 59-261.) (3 lecture hours a week.)

59-363. Metabolism II

The utilization of phosphate bond energy will be illustrated by carbohydrate, fatty acid, nucleotide and lipid biosynthesis, hormonal (G-proteins) and metabolite regulation, biological membranes (structure and transport mechanisms) and contractile processes (muscle biochemistry). (Prerequisite: 59-362.) (2 lecture hours a week.)

59-365. Protein and Nucleic Acid Chemistry

The covalent and three dimensional structures of these macromolecules will be described in conjunction with study of the chemical and physical methods used in their purification and characterization. (Prerequisite: 59-261.) (2 lecture hours a week.)

59-391. Pharmacology for Health Sciences

A lecture course of particular interest to students in the health sciences areas. The course material includes the principles of pharmacokinetics and pharmacodynamics, and is aimed at developing an understanding of the function of the human body with respect to the use and effects of drugs in health and disease. (Prerequisites: 55-204, 55-205, and

one of 59-261 or 59-263.) (Anti-requisite: 59-291) (3 lecture hours a week).

59-464. Enzymology and Biotechnology

This course will focus on the structural and mechanistic properties of biological enzymes. Topics to be covered include, chemical catalysis, kinetics, activity inhibition, catalytic mechanisms, and an overview of modern approaches to studying enzymes. Molecular mechanisms regulating the activities of enzymes in the cell will be discussed. (Prerequisite: 59-261.) (2 lecture hours per week.)

59-466. Drug Design

Lectures cover various aspects of drug discoveries and designs. Beginning with basic knowledge in pharmacokinetics and pharmacodynamics, students should learn how lead is discovered and how the lead is modified to yield potent therapeutic agents. Several techniques in the area of molecular biology, biochemistry, organic chemistry and computational biology will be discussed and presented. (Prerequisite: 59-391.) (3 lecture hours per week.)

59-469. Lipids, Lipoproteins, and Signaling

Biochemistry and cell biology of lipids and their role in cellular signaling, with a special emphasis on the experimental basis of current knowledge. Topics covered include lipid and membrane biochemistry, lipoprotein structure and metabolism, small molecules such as steroids and leukotrienes, and an integrative assessment of the role of lipids in cellular processes such as protein trafficking and intracellular signaling. (Prerequisites: 59-363 and 59-365 or permission of the instructor.)

59-480. Bioinformatics/Genomics/Proteomics

Introduction to informatics, flow of genetic information from nucleic acid sequence to amino acid sequence, gene expression profiling at the mRNA level, gene micro arrays, application of genomic database (Swissprot, gene bank). Introduction to functional genomics, proteomics, protein profiling, 2D gel electrophoresis, mass spectrometry of proteins eluted from 2D gels, peptide mass fingerprinting, comparative proteome analysis, application of 2D protein database and MS peptide database, high throughput analysis of protein-protein interactions, antibodies and phage-display technologies for protein micro array analysis, application of the biomolecular interaction network database (BIND) to find and predict protein-protein interactions. (Prerequisite: 59-365 or 55-350.) (2 lecture hours and 1.5 computer lab hour per week.)

A minor in Biological Sciences requires an average of 60% or better in the six Biology courses.

Total courses: 6

- a) 55-140
- b) 55-141
- c) 55-210
- d) 55-211
- e) 55-213
- f) 55-341

55-140. Biological Diversity

Principles governing living systems; the origins and diversity of life; evolution, reproduction, and heredity; the structure and function of viruses through plants and animals; basic principles of ecology. (Grade 12 "U" Biology or equivalent, or 55-100 and 55-101 are strongly recommended) (3 lecture, 3 laboratory hours a week.)

55-141. Cell Biology

Examination of the principles governing living systems, with emphasis on the molecular and cellular basis of life, molecular genetics, energetics, differentiation, and development. (Grade 12 "U" Biology or equivalent, or 55-100 and 55-101 are strongly recommended) (3 lecture, 3 laboratory hours a week.)

55-210. Ecology

Introduction to the fundamental concepts of ecology including factors affecting species distribution, reproductive strategies, population growth and regulation, species interactions, and community level organization and energetics. (Prerequisites: 55-140 and 55-141.) (3 lecture, 3 laboratory/discussion hours a week.)

55-211. Genetics

The course reviews transmission genetics and principles of inheritance. The material also includes non-nuclear inheritance and gene linkage, gene expression and regulation, mechanisms and phenotypic effects of DNA mutation and repair, and the principles and applications of population and quantitative genetics. Students will be exposed to molecular genetic techniques such as PCR and DNA sequencing. (Antirequisite: 55-212; Prerequisite: 55-140 and 55-141.) (3 lecture, 3 laboratory hours a week.)

55-213. Introductory Molecular Biology

Basic introduction to the molecular biology of the cell with emphasis on basic life processes in both plants and animals, including metabolism, energy transformations, transport mechanisms, signal transduction, and other general functions. The major topics covered include: Regulation of eukaryotic gene expression, fundamental aspects of recombinant DNA technology, DNA cloning, hybridization analysis, microarrays, and protein structure and function. Practical laboratory work will complement the lectures. (Antirequisite: 55-203; Prerequisite: 55-140, 55-141, and 55-211; suggested Corequisite: 59-261.) (3 lecture, 3 laboratory hours or equivalent a week.)

55-341. Evolution

Topics include the interaction of gene mutation, selection, and population characteristics in the process of evolution, mechanisms of speciation, and current problems in evolution. (Prerequisite: 55-211.) (3 lecture hours and 1 tutorial hour a week.)

Students must obtain a minimum average grade of 60% in the courses applied to the Minor and a minimum grade of 60% in each business course applied to the minor.

Total courses: 6

- a) 70-151
- b) 70-255
- c) 71-240
- d) 72-270
- e) 74-131
- f) 75-100

*NB: The Minor in Business will be open to any undergraduate student. Please note however that students must obtain the required prerequisite courses such as math and economics for some of the courses within the Minor. This program cannot be completed through Distance Education.

70-151. Principles of Financial Accounting

An introduction to the theory and concepts of financial accounting including generally accepted accounting principles and issues as to classification, recognition, realization, measurement and reporting. The emphasis of the course is from the perspective of the user of accounting information, allowing the student to become familiar with the information available and its content value. (Prerequisites or corequisites: 41-110, 62-194 (or equivalent) and 75-100).

70-255. Principles of Managerial Accounting

An introduction into management's use of internal accounting information for planning, managing, controlling and evaluation of business operations. Topics include cost concepts and costing techniques (including activity based costing), budgeting, cost-volume-profit analysis, standard costing, performance evaluation and product pricing. (Prerequisite 75-100, pre or co-requisite: 70-151). This course was formerly numbered 70-256. Although this course can be taken to upgrade grades in 70-256, students cannot receive credit for both 70-255 and 70-256.)

71-240. Management and Organizational Life

This course provides an overview of the basics of management theory, coupled with a more applied view of how that theory may work in an organizational setting. It will build upon the understanding of strategic positioning and context provided by its new prerequisite Introduction to Business (75-100) where stakeholders, the environment, and business issues provide the background for understanding the challenges facing today's manager. The course will provide some experiential opportunities to develop team and leadership skills, while looking at what affects the role of the individual and the group within the structure of the organization. An understanding of the influences upon and ways to motivate behaviour in organizations will be developed. (Prerequisite: 75-100. Business students must also have completed 71-100) This course was formerly numbered 71-340. Although this course can be taken to upgrade grades in 71-340, students cannot receive credit for both 71-240 and 71-340.

72-270. Business Finance I

This course serves as an introduction to the area of business finance. The primary objective is to understand the fundamental concepts and principles of financial management of the business enterprise. After an introduction to the goal financial management, the course will cover the valuation of financial and real investments, risk and return, financial analysis, planning and control, and working capital management. (Prerequisites: 70-151, 62-194 or equivalent, 73-100 and 75-100. Business students must also have completed 71-100.)

74-131. Principles of Marketing

An introduction to the principles, concepts and techniques of marketing. A significant objective of the course is the development of a basic understanding of the marketing process and its role in the organization, in the economy, and in global markets. This course was formerly numbered 74-231. Although this course can be taken to upgrade grades in 74-231, students cannot receive credit for both 74-131 and 74-231.

75-100. Introduction to Business

This course takes a holistic approach in helping students develop an understanding of their future places, as entry-level managers, in business and other forms of organizations. Functional business learning is undertaken using the lecture method. In parallel, the basic elements of strategic management are introduced in order to develop students' strategic thinking capabilities. Project work focuses on adapting students' career strategies to the employment environment, and on adapting companies' strategies to their competitive environments. Finally, the case method is used to emphasize ethical self-management, group dynamics and organizational governance, and entrepreneurial processes involved in starting and managing a small business. The course demands that students: use their initiative; develop their analytical, decision-making and interpersonal management skills; and take responsibility for achieving success. (Credit cannot be obtained for both 75-100 and 71-140).

Selected courses leading to the minor may not consist of anti-requisites to courses in the student's degree program. Students must also remember to select only courses, which may be otherwise counted for credit towards their degree programs. The following courses cannot be used towards the minor in Chemistry: 59-201, 59-191, 59-232, 59-263, 59-332, 59-333. An overall average of 67% or higher must be obtained, with no individual course having a grade lower than 60%.

Total courses: 6

- a) 59-140
- b) 59-141
- c) three Chemistry courses at the 200-level or above (must be in analytical (x2x), organic (x3x), physical (x4x), and/or inorganic (x5x) chemistry)
- d) one Chemistry course at the 300-level or above (must be in analytical (x2x), organic (x3x), physical (x4x), and/or inorganic (x5x) chemistry)

[All Chemistry courses at UWindsor \(link\).](#)

59-140. General Chemistry I

Introductory concepts in chemistry, including reactions of atoms, ions, and molecules, solution stoichiometry, thermochemistry, electronic structure of atoms, basic chemical bonding and molecular geometry, periodic properties of the elements, and the theory of gases. (Prerequisite: Grade 12 "U" Chemistry or equivalent (59-100), or consent of the instructor.) (3 lecture, 3 laboratory/tutorial hours a week.)

59-141. General Chemistry II

A continuation of 59-140 covering topics such as chemical kinetics, general equilibrium theory, acid-base theory, chemical thermodynamics, and introduction to organic chemistry. (Prerequisite: 59-140.) (3 lecture, 3 laboratory/tutorial hours a week.)

Intro courses for analytical (x2x), organic (x3x), physical (x4x), and inorganic (x5x) chemistry:

59-220. Analytical Chemistry

Fundamental chemical principles and theory that are important to classical, or "wet" analytical chemistry are presented, and illustrated using practical applications. The topics covered in this course include aqueous-solution chemistry, equilibria in complex systems, electrolytes, and titrimetric methods of analysis (gravimetric, precipitation, acid-base, compleximetric and reduction-oxidation). Theory and applications of electrochemical techniques include potentiometric and amperometric titrations. (Prerequisite: 59-141 or consent of instructor.) (3 lecture hours, 3 laboratory hours a week.) (Credit cannot be obtained for both 59-220 and 59-320.)

59-230. Introductory Organic Chemistry

Introduction to organic chemistry, with emphasis on structure, stereochemistry, and reactions of aliphatic and alicyclic compounds and their functionalized derivatives. (Prerequisites: 59-140 and 59-141, or 59-110.) (Antirequisite: 59-232.) (3 lecture, 3 laboratory hours a week.)

59-240. Introductory Physical Chemistry I

Properties of ideal and real gases, first and second laws of thermodynamics, physical transformations of substances, mixtures of substances and phase diagrams are applied to changes of state, chemical reactions and spontaneous processes. (Prerequisites: 59-141, 62-139 or 62-140, and 62-141.) (3 lecture, 3 lab or 1.5 tutorial hours in alternate weeks.)

59-250. Introductory Inorganic Chemistry I

Introduction to inorganic chemistry. Topics include: the origin of trends in the periodic table, molecular symmetry, and chemical bonding (including ionic bonding and the molecular orbital and valence bond models for covalent bonding). These approaches will be used to explain the chemistry and properties of selected classes of main group compounds. Photoelectron, NMR, and vibrational spectroscopy are introduced as complementary tools in the examination of these molecular species. (Prerequisite: 59-141.) (3 lecture hours a week, 1.5 tutorial hours a week.)

Total courses: 6

- a) 46-115
- b) 46-116
- c) four of: 46-223, 46-224, 46-322, 46-323, 46-324, 46-327, 46-421, 46-422, 46-423, 46-424, 46-425, and/or 46-427

46-115. Introduction to Psychology as a Behavioural Science

Introduction to selected areas in psychology including learning, perception, physiological psychology, emotion, and motivation.

46-116. Introduction to Psychology as a Social Science

Introduction to selected areas in psychology including developmental, social, personality, and clinical.

46-223. Developmental Psychology: The Child

The study of normal child development from conception to puberty, including physical, cognitive, and social development within the child's family, school, and cultural contexts. Specific topics include temperament, language development, intelligence testing, personality development, and parenting styles.

46-224. Developmental Psychology: Adolescence

The study of normal adolescent development from puberty to early adulthood. Topics include physical changes at puberty, cognitive and social development, and the impact of adolescent development within various contexts, including families, peer groups, and schools.

46-322. Child Psychopathology

An overview of theory and research related to the assessment, diagnosis, and treatment of childhood and adolescent disorders. Risk factors, vulnerability to stress, and protective factors will be addressed in relation to adjustment disorders, conduct disorder, depression, and anxiety in children and adolescents. (Prerequisite: 46-223 or 46-224.)

46-323. Developmental Disabilities

An overview of theory and research related to the biological foundation of childhood and adolescent developmental disabilities. Mental retardation, sensory and motor impairments, learning disabilities, and disorders with physical manifestations are included in the topics covered. (Prerequisite: 46-223 or 46-224.)

46-324. Educational Psychology

Psychology of the learning process and the variables that affect learning such as intelligence, motivation, attitudes, interpersonal relations, and cultural background. (Prerequisite: 46-223 or 46-224.)

46-327. Psychological Perspectives on Parenting

Contemporary theories and practices of parenting throughout the life cycle, with an emphasis on the psychological aspects of the family system. (Prerequisite: 46-223 or 46-224.)

46-421. The Psychology of the Family

An analysis of theory and research examining the impact of family context on individual development throughout the life cycle. (Prerequisites: 46-223; restricted to 4th year Psychology/Developmental Psychology majors).

46-422. Advanced Developmental Psychology: Emotional Development

This seminar examines issues related to emotional development from infancy through adult years. The experience, expression, and regulation of emotion will be discussed from various historical and academic perspectives. (Prerequisite: 46-223 or 46-224.)

46-423. Advanced Developmental Psychology: Cognitive Development

An examination of current theories, research methods, and findings in the area of cognitive development. (Prerequisite:

46-223 or 46-224.)

46-424. Advanced Developmental Psychology: Social Development

This seminar examines established and newly-emerging theories of development and their impact on social development research. Emphasis is placed on describing social developmental outcomes (e.g., gender, emotion, morality), and the influence of biological factors (e.g., temperament) and socialization agents (e.g., parents, media) on such outcomes. (Prerequisite: 46-223 or 46-224.)

46-425. Seminar in Developmental Psychology

Focus on a particular topic within the area of developmental psychology. Topics will vary from term to term. (May be repeated for credit.) (Prerequisites: 46-115, 46-116, 46-223 and three additional courses in Psychology.)

46-427. Methods of Behavioural Change

Survey of theories and methods of behavioural change, including behavioural assessment and analysis, relaxation training, graduated exposure, contingency management, and cognitive restructuring. (Prerequisite: 46-335 or 46-353 or 46-358.)

Total courses: 6

- a) 40-101
- b) two of: 40-201, 40-225, 40-234, 40-275, 40-334, 40-375
- c) two additional CMF courses
- d) one CMF course at the 300-level or above

40-101. Introduction to Media and Society

An overview of major themes, concepts and issues that inform the field of Canadian communication studies. Topics may include: the political, economic, historical, and cultural contexts of communication; new media; policy issues and concerns; representation; the role of media in the social construction of reality and the broad interaction between media and society. (2 lecture, 1 tutorial hour per week.)

40-201. New Media Studies

This course introduces students to theories of new media, explores the historical emergence of digital media forms and examines their social, cultural, political and economic implications. Topics may include: “old” and “new” media, convergence, political economy of new media, the digital divide, social networking, participatory cultures and Web 2.0 (i.e. Facebook, Twitter, YouTube, etc.) (Prerequisite: 40-101)

40-225. Media Literacy

A critical exploration of how the media contribute to the social construction of reality. Students will develop the skills and conceptual frameworks necessary to interpret and investigate the contemporary media environment with a particular focus on examples derived from Canadian informational/news sources and popular culture. Topics may include: media coverage of social and political issues, political economy of media/culture industries, media and democracy, media representation and stereotypes.

40-234. Research Methods in Communication

An introductory overview of research approaches, methods, and designs in communication studies. Students will learn about the theoretical grounding of quantitative, qualitative, and interpretive methods, and practice various methods to explore communication issues. (Prerequisites: 40-101) (2 lecture hours and 1 tutorial hour a week.)

40-275. Theories of Communication and Media

This course introduces students to various theorists and schools of thought that have shaped the discipline of communication/media studies within the Canadian context, traces the development of theoretical approaches to communication forms and processes and explores a variety of underlying philosophical perspectives and assumptions in communication and media theory. (Prerequisite: 40-101.) (2 lecture hours and 1 tutorial hour a week.)

40-334. Methods of Mass Media Criticism

In this course, students examine mass/popular cultural texts (e.g. news, TV shows, films, music videos, advertisements, social media, etc.,) and explore representational politics using a variety of contemporary methodological approaches. These may include: content analysis, cultural studies, discourse/textual analysis, semiotics, genre study, feminist criticism, audience research, on-line ethnography, web-based inquiry. (Prerequisites: 40-234 or 40-275)

40-375. Critical Approaches to Media and Culture

This course explores contemporary theories and methods related to the critical study of media and culture including Marxian and neo-Marxian political economy, the Frankfurt School, Gramscian hegemony theory, structuralism, semiotics, cultural studies, social constructionism, postmodernism, poststructuralism, and feminism. Topics may include: political economy of media and the culture industries; the production, consumption, and circulation of cultural texts and artefacts; the materialities of communication and the politics and practices of representation. (Prerequisite: One of 40-200, 40-201 or 40-275.)

[All Communication, Media and Film courses at U Windsor \(link\).](#)

Students must maintain an average of 60% or better in the courses applied to the Minor.

Total courses: 6

- a) 60-100
- b) 60-140
- c) 60-141
- d) 60-212
- e) two of: 60-254, 60-256, or 60-265

60-100. Key Concepts in Computer Science

The objectives of this course are to excite students' interest in computer science and to give students a precise understanding of a number of difficult concepts that are fundamental to modern computer science. Topics may include: induction and recursion; algebraic characterization; syntax; semantics; formal logic; soundness, completeness, and decidability; specification, algorithm, and determinism; complexity. (Restricted to students registered in programs offered wholly or jointly by Computer Science or by Mathematics and Statistics, or with approval of Computer Science.) (3 lecture hours and 1.5 laboratory hours a week)

60-140. Introduction to Algorithms and Programming I

This course is the first of a two-course sequence designed to introduce students to algorithm design and programming in a high-level language such as C. The main objectives of the course are to develop the ability to identify, understand and design solutions to a wide variety of problems. Topics include: computer system overview, hardware and software, problem solving steps, concepts of variables, constants, data types, algorithmic structure, sequential logic, decisions, loops, modular programming, one-dimensional arrays, text files. If possible, problems like searching/sorting will be addressed. (3 lecture hours and 1.5 laboratory hours a week)

60-141. Introduction to Algorithms and Programming II

This course is the continuation of 60-140 that introduces students to more advanced algorithm design and programming in a high level language such as C. The main objectives of the course are to develop the ability to identify, understand, and design solutions to a wide variety of problems. Topics covered include: multi-dimensional arrays, pointers, strings, advanced modular programming, records, binary files, recursion, stacks, linked lists and introduction to algorithm analysis. (Prerequisite: 60-100 (or 62-140) and 60-140.) (3 lecture and 1.5 laboratory hours a week).

60-212. Object-Oriented Programming Using Java

Concepts of classes and objects, Java applications, frames, event handling, control structures, methods, arrays, string manipulations, object-based programming, object-oriented programming - inheritance, polymorphism, interface and abstract classes, anonymous classes, data structures in Java, exception handling, introduction to graphical user interface. (Prerequisite: 60-141.) (3 lecture hours and 1.5 laboratory hours a week)

60-254. Data Structures and Algorithms

An introduction to the programming and analysis of linear and non-linear internal (main store) data structures and associated algorithms. Topics include the formal notion of an algorithm, elementary time and space complexity; linear lists (such as stacks, queues, linked structures.); non-linear lists (trees, binary trees); recursion; sorting techniques (such as heap sort, quick sort, merge sort, shell sort.); searching techniques (such as binary search, binary search trees, red-black trees, hashing.); algorithm design paradigms (such as divide-and-conquer, dynamic programming, greedy algorithms); and applications. (Prerequisite: 60-100 and 60-141) (3 lecture hours and 1.5 laboratory hours a week)

60-256. Systems Programming

This course introduces students to advanced software development techniques in system programming using the C language in the UNIX environment. Topics include introduction to modern operating systems, system calls, managing processes, the use of fork and exec, signals, file processing, filters, pipes, scripting languages, introduction to concurrency (e.g. synchronization), network programming (e.g. using sockets), client-server problems. (Prerequisite: 60-141.) (3 lecture hours and 1.5 laboratory hours a week)

60-265. Computer Architecture I: Digital Design

This course covers fundamental concepts of digital design and CPU architecture. Topics covered include number systems, switching algebra, logic gates, circuit minimization combinational circuit, read-only memory, random-access memory, programmable logic, synchronous and asynchronous sequential circuits, latches, flip-flops, registers, counters, register transfer language. and CPU architecture overview. (Prerequisite: 60-140) (3 lecture hours and 1.5 laboratory hours a week)

Total courses: 6

- a) 07-236
- b) 45-170
- c) 49-112
- d) three of: 26-354, 26-361, 26-371, 34-255, 40-245, 40-462, 43-361, 43-362, 46-236, 46-342, 46-445, 47-210, 48-240, 48-333

07-236. Surviving Survival: Reflections on Genocide, War and Trauma

An examination of the impact of war, genocide, and trauma on individuals and communities, as reflected in film, literature, and the arts.

45-170. Introduction to Diaspora Studies: There's No Place Like Home

This course introduces students to diasporas-scattered populations living in exile from their ancestral homelands. The course focuses on the significance of migration, exile, belonging, and nostalgia (for ancestral homelands) for diasporas throughout the world. Students submit projects (incorporating oral histories, for example) on the diaspora of their choice. (Also offered as Diaspora Studies 35-170 and Languages, Literatures and Cultures 06-170)

49-112. Culture in Comparative Perspective

An introduction to the variety of human cultures throughout the contemporary world. An examination of the significance of cultural anthropology for overcoming the barriers preventing the understanding of other cultures and ourselves.

26-354. Literature and Postcolonialism

A study of the literature of nations and peoples responding to various forms of oppression, including colonization, racism, assimilation, and genocide. Introduces relevant theory and focuses on contemporary English-language texts from Africa, the Caribbean, South Asia, North America, and elsewhere. (Prerequisite: Semester three standing, and two of 26-120; 26-210 or 26-211.)

26-361. Topics in Canadian Literature

Studies in Canadian literature with changing emphasis on the literature of a particular region or community, a particular genre, or select authors. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and two of 26-120; 26-210 or 26-211.)

26-371. Topics in US Literature

Studies in US literature, with changing emphasis on particular themes, genres, or authors. Topics might include American gothic, 19th-century citizenship, African-American literature, or the Harlem Renaissance. (May be repeated for credit if the topics are different.) (Prerequisite: Semester three standing, and two of 26-120; 26-210 or 26-211.)

34-255. Knowledge, Science, and Society

The course explores the relationship between what individuals know and their participation in society, including as members of scientific communities. Topics may include: the ways communities rather than individuals can hold knowledge; how cognitive authority depends on a person's membership in, and social position in, society; the role of testimony in knowledge; how the legal system creates knowledge; the roles of gender, race, class, and culture in knowledge; and the ethical implications of knowledge. (Prerequisite: semester 3 or above standing.)

40-245. Communication and Cultural Policy in Canada

This course surveys the historical development of communication and cultural policy in the Canadian context. Students will investigate particular culture industries (e.g. music, film, television, etc.) and key themes (nation-state, public sphere, globalization, media convergence) that have informed policy debates as well as the structure, performance and regulation of culture/media industries. Topics may include: the role of the State in cultural production, national culture, citizenship, identity and multiculturalism, representations of 'Canada' in the popular imagination. (Prerequisite: 40-101.)

40-462. Communication Perspectives and Aboriginal People, Race and Ethnicity

Explores theoretical and practical communication issues of race and ethnicity and links these issues to the practice of social justice. Topics include: historical and critical implications of identity politics, media (mis-) representation, cultural policy, First Nations, multicultural and multiracial media production. (Prerequisites: 40-225 or 40-245, and third year standing.) (Sociology majors: 48-333 and two courses in Communication, Media, and Film.)

43-361. Slavery In North America, 1600-1877

The history of racial slavery, including both Amerindians and Africans, the emergence of the concept of “race”, male and female experiences, resistance to slavery, British abolition, Civil War, and Reconstruction. The Canadian and U.S. experiences will be compared.

43-362 African Americans/Canadians After Emancipation, 1877 to the Present

The history of racial discrimination, violence, and segregation, struggles for political rights, labour, migration and immigration, and the cultural activity of people of African descent in the U.S. and Canada from the end of American slavery to the present. Women’s and men’s lives will be treated equally. (Prerequisite: semester 4 standing.) (Students cannot receive credit for both 43-362 and 43-369.)

46-236. Introduction to Social Psychology

An introduction to the theories, methods, findings, and problems associated with the study of the individual in the social context. Topics include social cognition; interpersonal behaviour (attraction, aggression, altruism); social attitudes, prejudice, and discrimination; social influence and group processes (conformity, leadership, intergroup relations). (Prerequisites: 46-115 and 46-116.)

46-342. Culture and Psychology

This course examines psychological theory and research on the commonalities and variations in human behaviour within and across cultures. Topics may include individualism and collectivism, perspectives on the self, communication and interpersonal relations, intergroup relations, organizational behaviour, and the consequences of cross-cultural contact. (Prerequisite: 46-236.)

46-445. Stereotyping, Prejudice, and Discrimination

Psychological theory and research on stereotyping, prejudice, and discrimination; their formation and function; the role of individual and sociocultural factors in their development and maintenance; individual responses and psychological interventions. (Prerequisite: 46-236.)

47-210. Social Work and Diversity

This course examines oppression and anti-oppressive social work practice from a broad ecological framework as they relate to social inequality and life circumstances. Various forms of oppression such as racism, ableism, anti-semitism, heterosexism, and sexism are analyzed at the individual, cultural, and institutional level while applying the professional values and ethics of social work practice. The experiences, needs, and responses of populations that have been historically excluded, marginalized, and disadvantaged are examined. Students develop analytical and self-reflective skills as they relate to social work practice which fosters inclusion, participation, advocacy, and social justice. (Prerequisites: 47-117 and 47-118 or permission of instructor.)

48-240. Introduction to Race and Ethnicity

An introduction to race and ethnic relations, with global and Canadian perspectives, which may draw on both sociological and anthropological literature. Topics may include Canadian cultural, indigenous, ethnic and racial identities; multiculturalism; im/migration and integration; separatist movements; pursuit of collective rights; transnationalism and diaspora. (Prerequisites: third semester standing.)

48-333. Crimes of the State: Genocide, War Crimes and Ethnic Cleansing

This course examines complex issues related to genocide, war crimes, ethnic cleansing and other related crimes of the state in comparative contexts and considers the possibilities and constraints of international law and humanitarian

intervention in detecting and preventing future mass atrocities. (Prerequisites: 48-240 and semester 5 or higher standing.)

Total courses: 6

- a) 37-101
- b) 37-301
- c) 37-302
- d) three Disability Studies Emphasis courses at the 200-level or above

37-101. Social Justice in Action

Students investigate the local and global origins of a contemporary social problem through the eyes of social justice activists. Students will assess the strengths and limitations of strategies and theoretical frameworks for social change and use this knowledge to create social action messages that raise public awareness, influence government or corporate policy, or positively change attitudes and behaviours. (3 lecture hours per week.) (Also offered as Social Justice Studies 38-101.)

37-301. Theories of Disability and the Social Model

This course explores the meaning of disability and deepens students' understanding of the experience of living with a disability in today's society. It introduces students to various approaches to disability and explores alternate perspectives of disability, while emphasizing the social model of disability. It critically examines assumptions that have shaped traditional service and responses to people with disabilities. It explores how to understand disability from the perspective of difference rather than deficit. It encourages new ways of thinking about how to accommodate people with disabilities. This course focuses on disability as a social construct and people with disabilities as a minority group. (Prerequisite: Admission to Disability Studies program.)

37-302. Historical Approaches to People with Disabilities

This course will select national and international milestones highlighting people, events, and legislation that have affected disability rights. It will include historical discussions about significant dates related to the eugenics movement, the civil rights movement, the self-help movement, deinstitutionalization, demedicalization, and consumerism. Emphasis will be placed upon Canadian history with comparison with historical developments in other countries. This course will expose current issues, controversies, and trends in disability and teach students how to interpret historical documents, court cases, media reports, and other materials. It will use case studies to analyze the ideological, socioeconomic, and political history of disability. (Prerequisite: 37-301)

Disability-Studies-Emphasis Courses

Program requirements in Disability Studies make reference to Disability Studies-Emphasis courses. These currently include: General Arts: 01-204, 01-209; Music: 32-120, 32-121, 32-330, 32-420; Philosophy: 34-129; Psychology: 46-333, 46-256, 46-322, 46-323, 46-334, 46-228*, 46-427, 46-445; Social Justice Studies: 38-321; Social Work: 47-204, 47-303, 47-355*, 47-356; Sociology: 48-251*; Women's and Gender Studies: 53-201*; 53-355*, 53-390*, Nursing: 63-245, 63-351.

**Non-Disability Studies prerequisite course required.*

Various areas of study from time to time may offer courses dealing specifically with disability studies under specific course titles or general titles such as "Special Topics," "Directed Readings," or "Seminars." Information regarding such courses will be available from the Disability Studies Program Coordinator. These courses may be taken with permission of the Disability Studies Program Coordinator.

Students must maintain an average of 60% or better in the courses applied to the Minor.

Total courses: 6

- a) 66-140
- b) 66-141 (if not enrolled in a program that includes 66-141 as a course used to calculate major average)
- c) courses chosen from the following to a total of six courses for the Minor: 66-100, 66-202, 66-215, 66-216, 66-221, 66-224, 66-230, 66-231, 66-232, 66-305, 66-327, 66-436.

66-100. Introduction to Geomorphology

The landscapes of the earth, with particular reference to the glaciers, coastlines, rivers, and northern permafrost regions of Canada. (3 lecture hours a week.)

66-140. Introduction to Earth Science

An introduction to Earth's physical character and the processes that shape our planet. The focus is on the geosphere: Earth materials, weathering, sedimentation, magmatism and volcanism, metamorphism, deformation, earthquakes, mountain building, and Earth's internal structure. These will be examined in the context of the origin of Earth, geologic time, and plate tectonics. The nature of mineral and energy resources will also be examined. This course is designed for Science majors. (2 lecture, 2.5 laboratory hours a week).

66-141. Introduction to Environmental Science

An introduction to the components of Earth's environment (geosphere, biosphere, atmosphere, and hydrosphere) and the principles and processes defining and influencing environmental systems (energy and matter cycles). Human interactions with, and influences on, the environment will be examined (resource and land use, waste and pollution, development, conservation and sustainability). This course is designed for Science majors. (3 lecture hours a week, optional field trips).

66-202. Earth Materials

An introduction to the fundamental properties and characteristics of Earth materials. Topics include the nature of minerals (the principal components of sediments, soils and rocks), and the general chemical, mineralogical and physical characteristics of Earth materials. Coverage includes how geochemical and geophysical methods are used to determine the properties of Earth materials. (2 lecture and 3 laboratory hours/week.)(Prerequisites: 66-140 and 66-141 or consent of instructor.)

66-215. Introduction to Aerial Photography and Cartography

Basic concepts involved in cartographic theory and design, including map projections, longitude, latitude and UTM grid systems, and thematic and topographic maps, and the fundamentals of aerial photographs and other remotely sensed data (visible spectrum, infra-red and radar), satellite imagery, photogrammetry and photointerpretation. (2 lecture, 2 laboratory hours a week.)

66-216. Principles and Applications of Geographical Information Systems

This course emphasizes the principles, techniques, and applications of GIS. Lectures and laboratory exercises will focus on how to acquire, store, manipulate, and analyze spatial and non-spatial data. Data conversion, data reformatting, and data base development techniques will be explained. Students will create geographic coverages and learn techniques in the operation of a GIS by completing "hands-on" projects with modern GIS software. (It is recommended that students take 66-215 before taking this course.) (2 lecture, 3 laboratory hours a week.)

66-221. Environmental Geomorphology

The study of landforms and Earth surface processes, and the impact of these processes on the environment. (2 lecture, 2 laboratory hours a week.)

66-224. Introduction to Geochemistry

An overview of the chemical composition of Earth and the factors governing the cycling of chemicals throughout Earth from the core through to surface environments. Principles of crystal chemistry, chemical reactions and

equilibria, oxidation and reduction, adsorption and ion exchange and isotope chemistry and their relevance to Earth processes. (Prerequisites: 59-140, 59-141.) (3 lecture and/or tutorial hours per week.)

66-230. Hydrology

Fundamental processes in physical hydrology that control movement and storage of water within a watershed or catchment basin. Components of the water balance (precipitation, interception, infiltration, evapotranspiration, runoff, storage) and their variations in space and time. Theoretical and practical approaches to measurement and forecasting of components and their linkages. Special consideration of snowmelt, streamflow, wetlands, and human impacts. (Prerequisites: one of 66-100, 66-102 or 66-141; and one of 02-250, 65-205, or other University-level mathematics or statistics course; or consent of instructor.) (3 lecture, 2 laboratory hours a week.)

66-231. Introduction to Petrology

Petrography, textures, composition and classification of igneous and metamorphic rocks. Evolution of magmatic systems. Nature and causes of metamorphism. Relationship between global tectonics and magmatic and metamorphic processes. (Prerequisite: 66-202 or consent of instructor.) (2 lecture, 3 laboratory hours a week.)

66-232. Soils and Sediments

An introduction to the properties and characteristics of soils and sediments, the materials that cover much of Earth's surface and underlie surface water bodies. Topics include the formation and structure of soils and sediments, and how they are described, classified, and analyzed. Coverage includes the geographic distribution of soils and their importance as an environmental resource. (3 lecture and 2 laboratory hours per week.) (Prerequisites: 66-140 or 66-141, and 66-202 or consent of instructor.)

66-305. Environmental Sedimentology

Description and analysis of depositional and diagenetic processes, facies, environments and sequences. The impact of natural processes and anthropogenic activities on the nature, production, and accumulation of sediments. Effects of changes in hydrologic reservoirs and fluxes. (3 lecture hours per week, field trips). (Prerequisite: 66-232 or consent of the instructor.)

66-327. Structural Geology

Rock deformation; primary and secondary structures; analysis and classification of folds and faults; interpretation of geologic maps; solution of structural problems. (Prerequisite: 66-231 or consent of instructor.) (3 lecture, 3 laboratory hours a week.)

66-436. Hydrogeology

Fundamental physics and properties of groundwater flow in porous geologic material, develops an intuitive, problem-solving approach to hydrogeologic problems. Topics include: groundwater flow equations, flow nets, aquifer pumping, contaminant transport processes, two-phase flow, and dense non-aqueous phase liquids. Computer application will be emphasized. (Prerequisites: 66-141, 62-130 or equivalent, 66-230 recommended, or consent of instructor.) (3 lecture, 2 laboratory hours a week.)

Students must maintain an average of 60% or better in the courses applied to the Minor.

Total courses: 6

- a) 41-110
- b) 41-111
- c) 41-221
- d) 41-231
- e) two additional Economics (41-) courses

41-110. Introduction to Economics I

An introduction to microeconomics intended to provide students with the tools necessary to begin to understand and evaluate how resources are allocated in a market economy. Specific topics include how markets function, theories of the business firm, of consumer behaviour and of income distribution. The economic roles of labour unions and government are also covered. The theories are applied to contemporary Canadian economic problems.

41-111. Introduction to Economics II

This course is an introduction to macroeconomics. The emphasis is upon measuring and explaining what determines economic aggregates such as the total national product (GDP) and the level of prices and employment. The role of money and financial institutions, the impact of international trade and the policy options available to governments for coping with inflation and unemployment are discussed in detail.

41-221. Intermediate Microeconomics I

The theory of markets, the theory of consumer behaviour and demand; the firm, production, cost, and supply. (Prerequisite: 41-110.)

41-231. Intermediate Macroeconomics I

A theoretical and policy oriented treatment of the determination of employment, output, interest rates, and the price level; stabilization policies and their effectiveness. (Prerequisites: 41-111.)

[All Economics courses at UWindsor \(link\).](#)

Total courses: 6

- a) one Literature course (26-1**) at the 100-level
- b) two courses (26-2**) at the 200-level
- c) one course (26-3**) at the 300-level
- d) two courses (26-2**/3**/4**) at the 200-level or above

100-LEVEL LITERATURE COURSES

26-120. Writing about Literature

An introduction to the basic tools for analyzing and writing about literature. Students will be trained in practical criticism of the major genres of literature (poetry, drama, and narrative) and will write a number of critical essays. (Not available on an Audit basis.) (Restricted to majors in English and BAS only.)

26-122. Drama of the Western World: The Tragic Vision

An introduction to tragedy from antiquity to the present, from literary and theatrical perspectives.

26-123. Drama of the Western World: The Comic Vision

An introduction to comedy from antiquity to the present, from literary and theatrical perspectives.

26-128. Women and Literature

An introduction to the ways in which women have been represented and constructed in English literature of various periods.

26-140. Topics in Literature

An introduction to a topic in literature. Topics may include Canadian Aboriginal literature; literature pertaining to topics such as the Bible, the environment, disability studies, film, or music; comparative literatures; or world literatures in English. (May be repeated for credit if the topics are different.)

[All English Language and Literature courses at UWindsor \(link\).](#)

Total courses: 6

- a) 75-100
- b) 75-290
- c) 75-391
- d) 75-493
- e) 75-491 (taken twice with different topics)

75-100. Introduction to Business

This course takes a holistic approach in helping students develop an understanding of their future places, as entry-level managers, in business and other forms of organizations. Functional business learning is undertaken using the lecture method. In parallel, the basic elements of strategic management are introduced in order to develop students' strategic thinking capabilities. Project work focuses on adapting students' career strategies to the employment environment, and on adapting companies' strategies to their competitive environments. Finally, the case method is used to emphasize ethical self-management, group dynamics and organizational governance, and entrepreneurial processes involved in starting and managing a small business. The course demands that students: use their initiative; develop their analytical, decision-making and interpersonal management skills; and take responsibility for achieving success. (Credit cannot be obtained for both 75-100 and 71-140).

75-290. Fundamentals of Entrepreneurship

This is a survey course designed to introduce students from all faculties to entrepreneurship as a career option. The entrepreneurial process will be explored through a mix of lectures and case studies. Topics include the identification of profitable business ideas, assessment of business opportunities, entry strategies, marshalling resources, and the start-up process. (Prerequisite: 75-100. Business students must also have completed 71-100.)

75-391. New Venture Formation

Designed for students who choose entrepreneurship as a career option, this course is an in-depth study of the process of drawing the blueprints for a new enterprise including: developing business ideas, developing business concepts, conducting feasibility studies, choosing a legal form or business, writing business plans, identifying and approaching sources of money, raising funds, and putting together a package of resources to start an enterprise. (Prerequisites: 72-271 and 74-131.)

75-491. Special Topics in Strategic Management and Entrepreneurship

This is an advanced course designed to examine, in-depth, the strategic issues facing business decision makers. Coverage will vary to reflect the contemporary issues and concerns of today's executives. (May be taken for credit twice if content is different.) (Prerequisite: fourth year standing and consent of the instructor.)

75-493. Field Study in Strategic Management and Entrepreneurship

In this course, teams of students study an actual firm focusing on identifying the strategic issues facing the firm, the needed strategic plans for addressing them, and the implementation of such plans. Students pursuing the entrepreneurial option can also take this course to finalize the prototype for the business they intend to start. (Prerequisite: Semester 7 or Semester 8 standing.)

Students must maintain an average of 60% or better in the courses applied to the Minor.

Total courses: 6

- a) 66-141
- b) 55-140 (if not enrolled in a program that includes 55-140 as a course used to calculate major average)
- c) courses chosen from the following to a total of six courses for the Minor: 66-102, 66-140, 66-202, 66-216, 66-221, 66-224, 66-230, 66-232, 66-305, 66-316, 66-320, 66-328, 66-330, 66-370, 66-380, 66-402, 66-410, 66-415, 66-436, 66-437, 66-440, 66-441.

66-141. Introduction to Environmental Science

An introduction to the components of Earth's environment (geosphere, biosphere, atmosphere, and hydrosphere) and the principles and processes defining and influencing environmental systems (energy and matter cycles). Human interactions with, and influences on, the environment will be examined (resource and land use, waste and pollution, development, conservation and sustainability). This course is designed for Science majors. (3 lecture hours a week, optional field trips).

55-140. Biological Diversity

Principles governing living systems; the origins and diversity of life; evolution, reproduction, and heredity; the structure and function of viruses through plants and animals; basic principles of ecology. (Grade 12"U" Biology or equivalent, or 55-100 and 55-101 are strongly recommended) (3 lecture, 3 laboratory hours a week.)

66-102. Atmosphere and Climate

An introduction to the atmosphere and the basic principles of meteorology and climatology. Topics include weather systems, atmospheric pollution and inadvertent climate modification, climate change and relationships between climate and living organisms. (3 lecture hours a week.)

66-140. Introduction to Earth Science

An introduction to Earth's physical character and the processes that shape our planet. The focus is on the geosphere: Earth materials, weathering, sedimentation, magmatism and volcanism, metamorphism, deformation, earthquakes, mountain building, and Earth's internal structure. These will be examined in the context of the origin of Earth, geologic time, and plate tectonics. The nature of mineral and energy resources will also be examined. This course is designed for Science majors. (2 lecture, 2.5 laboratory hours a week.)

66-202. Earth Materials

An introduction to the fundamental properties and characteristics of Earth materials. Topics include the nature of minerals (the principal components of sediments, soils and rocks), and the general chemical, mineralogical and physical characteristics of Earth materials. Coverage includes how geochemical and geophysical methods are used to determine the properties of Earth materials. (2 lecture and 3 laboratory hours/week.)(Prerequisites: 66-140 and 66-141 or consent of instructor.)

66-216. Principles and Applications of Geographical Information Systems

This course emphasizes the principles, techniques, and applications of GIS. Lectures and laboratory exercises will focus on how to acquire, store, manipulate, and analyze spatial and non-spatial data. Data conversion, data reformatting, and data base development techniques will be explained. Students will create geographic coverages and learn techniques in the operation of a GIS by completing "hands-on" projects with modern GIS software. (It is recommended that students take 66-215 before taking this course.) (2 lecture, 3 laboratory hours a week.)

66-221. Environmental Geomorphology

The study of landforms and Earth surface processes, and the impact of these processes on the environment. (2 lecture, 2 laboratory hours a week.)

66-224. Introduction to Geochemistry

An overview of the chemical composition of Earth and the factors governing the cycling of chemicals

throughout Earth from the core through to surface environments. Principles of crystal chemistry, chemical reactions and equilibria, oxidation and reduction, adsorption and ion exchange and isotope chemistry and their relevance to Earth processes. (Prerequisites: 59-140, 59-141.) (3 lecture and/or tutorial hours per week.)

66-230. Hydrology

Fundamental processes in physical hydrology that control movement and storage of water within a watershed or catchment basin. Components of the water balance (precipitation, interception, infiltration, evapotranspiration, runoff, storage) and their variations in space and time. Theoretical and practical approaches to measurement and forecasting of components and their linkages. Special consideration of snowmelt, streamflow, wetlands, and human impacts. (Prerequisites: one of 66-100, 66-102 or 66-141; and one of 02-250, 65-205, or other University-level mathematics or statistics course; or consent of instructor.) (3 lecture, 2 laboratory hours a week.)

66-232. Soils and Sediments

An introduction to the properties and characteristics of soils and sediments, the materials that cover much of Earth's surface and underlie surface water bodies. Topics include the formation and structure of soils and sediments, and how they are described, classified, and analyzed. Coverage includes the geographic distribution of soils and their importance as an environmental resource. (3 lecture and 2 laboratory hours per week.)(Prerequisites: 66-140 or 66-141, and 66-202 or consent of instructor.)

66-305. Environmental Sedimentology

Description and analysis of depositional and diagenetic processes, facies, environments and sequences. The impact of natural processes and anthropogenic activities on the nature, production, and accumulation of sediments. Effects of changes in hydrologic reservoirs and fluxes. (3 lecture hours per week, field trips). (Prerequisite: 66-232 or consent of the instructor.)

66-316. Environmental Modelling and Decision Analysis

An overview of different types of environmental models (e.g., conceptual, mathematical and statistical, process, and spatial) and how these models are used within a decision analysis framework. Learned theory is applied to a variety of problem scenarios in a series of hands-on lab exercises. Emphasis is on spatial problems that use GIS and spreadsheets as the principle problem-solving tools. Scenarios demonstrate how environmental practitioners constrain problems, express important model parameters, transform data, and make informed decisions in the face of uncertainty. (3 lecture and 2 laboratory hours per week.)(Prerequisite: 66-216 or consent of instructor).(Credit may not be obtained for both 66-316 and 67-310).

66-320. Analysis of Environmental Materials

Students will develop a comprehensive understanding of the chemistry and crystallography of minerals and other natural materials. Topics will include techniques used to characterize natural materials (e.g., optical microscopy, scanning and transmission electron microscopy, spectroscopic techniques, elemental and isotopic microanalysis, and X-ray diffraction) and application of these methods to understanding environmental issues (2 lecture and 3 laboratory hours per week.)(Prerequisites: 66-140 and 66-202 or consent of instructor.)

66-328. Environmental Geochemistry

Processes such as water-rock interactions, element cycling, and contaminant mobility in near-surface geologic settings will be studied using the principles of geochemistry, thermodynamics and chemical kinetics. Topics covered in this course will include: the laws of thermodynamics, aqueous complexation, solutions and activities, redox reactions, solubility, phase equilibria and chemical kinetics in natural systems. (Prerequisite: 59-240 or 66-224 or consent of instructor.) (3 lecture and/or tutorial hours per week.)

66-330. Environmental Geophysics

An introduction to the use of seismic, electrical, electromagnetic and other geophysical methods used in near-surface environmental assessment studies. (Prerequisite: 66-202 or consent of instructor) (2 lecture, 3 laboratory hours a week.)

66-370. Climate Change

A study of the causes of climate and climate change. Topics include the record of past climates, projection of future climate based on models incorporating anthropogenic factors, modification of local and regional climates, and the impact of these changes on the natural and human environment. (Prerequisite: 66-102 required, 66-220 recommended, or consent of instructor.) (3 lecture hours a week.)

66-380. Field Methods in Environmental Science

Field sampling and measurement techniques in the environmental sciences. Special consideration will be given to the measurement, evaluation and reporting of spatial and temporal data and to the collection and interpretation of geochemical data. Designed for Environmental Science students. (Prerequisites: 66-141, 66-202 and 66-224 or consent of instructor.) (1 week of fieldwork preceding Fall semester and 3 field or laboratory hours per week).

66-402. Remote Sensing

An integrated course dealing with contemporary principles and applications of aerospace remote sensing. Emphasis will be placed on scanning systems; multispectral sensors; the identification and interpretation of spectral signatures; how the imagery obtained by sensors is analyzed optically or digitally to yield Earth resource information; and the manipulation and display of remotely-sensed data. (Prerequisite: 66-215 or 66-216, or consent of instructor.) (2 lecture, 1.5 laboratory hours a week.)

66-410. Environmental Assessment and Monitoring

An overview of the methods and procedures used for environmental site assessment (ESA) and monitoring as applied to unimpacted ('greenfield') and impacted ('brownfield') properties. Coverage includes the major elements of site characterization (e.g., Phase I & II ESA, BEA, RI-FS, RA and CAP), and applicable standards and guidelines (e.g., ASTM E1527 and E1903). Also included are an introduction to monitoring approaches and techniques for air, water, soil, sediment and waste, and an overview of the laws, rules and regulations governing ESA activities (3 lecture hours per week.) (Prerequisites: 66-224, 66-232 and 66-328 or consent of instructor.)

66-415. Ecosystem Health

The fundamental mechanisms and processes that structure ecosystems, anthropogenic activities that can alter them, and the policy and management used to protect them. Through class discussions and case studies, students develop a practical, problem-solving approach to issues associated with ecosystem health. Topics include food web and ecosystem ecology, ecosystem models, anthropogenic stressors, management methods and models, and national and international policies. (3 lecture hours per week.)(Prerequisites: 55-210 and 66-141 or consent of instructor.)

66-436. Hydrogeology

Fundamental physics and properties of groundwater flow in porous geologic material, develops an intuitive, problem-solving approach to hydrogeologic problems. Topics include: groundwater flow equations, flow nets, aquifer pumping, contaminant transport processes, two-phase flow, and dense non-aqueous phase liquids. Computer application will be emphasized. (Prerequisites: 66-141, 62-130 or equivalent, 66-230 recommended, or consent of instructor.) (3 lecture, 2 laboratory hours a week.)

66-437. Contaminant Hydrogeology

Application of elements of geology, geochemistry, physical chemistry, toxicology, biogeochemistry, and physical hydrogeology toward understanding and quantifying the movement, fate and toxicity of organic and inorganic substances (i.e., contaminants) in environmental systems. Selected topics include site characterization, physicochemical properties of contaminants, human and environmental toxicology, risk assessment, remediation technologies and feasibility, and contaminant transport and attenuation modeling. (2 lecture and 2.5 laboratory/tutorial hours per week.)(Prerequisites: 66-224, 66-328 and 66-436 or consent of instructor.)

66-440. Biogeochemistry

An investigation of global change focusing on the chemical, physical, geological, and biological processes that cycle elements through Earth's systems. Topics covered in this course will include: The origin of Life, global element cycles, mineral weathering and the global CO₂ budget, microbe-water-rock interactions (including: sorption, oxidation-

reduction, and methylation of metals; biological degradation of organic molecules; application of molecular biology and stable isotope techniques to environmental problems). (Prerequisites: 66-224 or consent of instructor) (3 lecture and/or tutorial hours per week.)

66-441. Resource Development and Environmental Impact

Geochemical processes and environmental impact that may result from the development of natural resources (minerals, hydrocarbons), with special emphasis on the approaches used to extract and develop raw materials, and sustainable strategies to protect the environment. Topics include acid mine drainage, tailings disposal, oil sands development, groundwater contamination, metal toxicity, and an integrative assessment of the role of metals and their influence on biota. (3 lecture hours per week.)(Prerequisites: 66-202, 66-224 and 66-328 or consent of instructor.)

Total courses: 6

- a) 48-204
- b) 48-206
- c) 48-306
- d) 48-329
- e) 48-351
- f) one of: 48-301, 48-352, 48-409, 48-461

48-204. Sociology of Families

Sociological perspectives on cross-cultural variations and changes in family forms. Topics may include discussion of marriage, kinship, family structure and organization of intimate relationships. (Prerequisites: third semester standing.)

48-306. Sociology of Women

An overview of the economic, educational, familial, political, and religious factors affecting the position of women in society. A socio-historical analysis of the change in the roles and status of women in Canada and internationally with a view to understanding the nature of their impact upon major societal institutions. (Semester 5 or higher standing.)

48-329. Contemporary Families

Examines the empirical sociological literature on families and their formation in the context of postwar change with emphasis on the Canadian experience, including key demographic trends such as the rise of cohabitation and two-earner families, and changes in divorce rates. (Prerequisites: 48-204 and semester 5 or higher standing)

48-351. Gay and Lesbian Studies

A multidisciplinary review of critical issues in the social organization and representation of same-sex bonding, including discussion of: cross-cultural studies, historical constructions of homosexuality and romantic friendship, coming out and identity, relationships and family, theories of homophobia and sexual repression, the development of communities and social movements in modern societies, the impacts of AIDS, and the emergence of queer theory. (Prerequisites: 48-205 and semester 5 or higher standing.)

48-301. Sociology of Childhood

This course explores the experience of childhood as a moment within the human life cycle, yet one subject to great variation according to the family and social context. Students will become familiar with ongoing debates about the nature of children and childhood, the concept of socialization, the role and place of children in family, social, and economic life, as well as children's own agency in shaping their lived experience. (Prerequisites: 48-204 and semester 5 or higher standing.)

48-352. Citizenship, Rights, and Social Justice

An examination of the impact of the 'global' on social and economic processes, human rights and struggles over rights in specific locales worldwide. Topics may include: gender-based violence, poverty and 'development', children's rights, changing labour practices; human rights principles and institutions; and cultural and political struggles for rights in European, North American, and post-colonial settings (Prerequisite: 48-213 or 48-291/202, 48-214, and semester 5 or higher standing.)

48-409. Advanced Seminar in Family, Gender and Culture

A critical examination of key issues and debates in multiple family forms and relations in contemporary society. The course will adopt a cross-cultural approach examining and analyzing family forms and processes with emphasis on the intersectionalities of gender, culture, age, ethnicity, and class. (Prerequisites: 48-204, 48-391/302 or 48-356 or 48-373; 48-390/310 (or 48-355), 48-308 and semester 7 or higher standing, or consent of instructor.)

48-461. Advanced Seminar in Law and Social Policy

This course explores theory and research concerned with legal and government policies and their impact on individuals, social institutions and society. Substantive topics will vary by instructor. (Prerequisites: 48-391/302 or 48-373; 48-

390/310 (or 48-355), 48-308 and semester 7 or higher standing; at least one 300-level course from the 300 level criminology course selection or consent of instructor.)

Total courses: 6

- a) 48-213
- b) 48-215
- c) 48-323
- d) 48-338
- e) 48-415
- f) one of: 48-214, 48-336, 48-340, 48-354

48-213. Perspectives on Culture

An examination of the emergence, development, meaning, and idea of culture. The different ways the concept is used in applied anthropology and sociology, ethnographic research, and popular discourse are discussed. (Prerequisites: third semester standing.)

48-215. Principles of Physical Anthropology

A biocultural perspective of human genetic and phenotypic variation in an evolutionary context including but not limited to: comparisons to other primates; identifying sources and nature of variation in living humans and critique of race; investigations of illness in the past and present; and the study of extinct species (Prerequisite: third-semester standing.)

48-216. Education and Society

This course employs sociological perspectives on education as central to social reproduction (in the transmission of knowledge, skills and values), as well as its place within broader social struggles and the creation and maintenance of social inequalities. Central theories are reviewed in light of empirical studies. Topics may include: schools as agents of socialization, stratification in education, social mobility, schooling and the labour market, cross-cultural educational practices, alternative forms of schooling, peer group influence, higher education, teacher-student relations, apprenticeships, arts-training, and the challenges associated with school violence. (Prerequisites: third semester standing.)

48-323. Forensic Anthropology

An overview of anthropological methods as applied to death investigations. Topics may include detection, recovery, and examination of human remains; problems of identification and individualization; and the reconstruction of events that occurred around the time of death. (Prerequisite: 48-215, and semester 5 or higher standing.)

48-338. Stuff: Seeing Culture Through 'Things'

Why do we need so much stuff and how has it changed over time? An examination of the representation and interpretation of the material artifacts of culture in a global context, including theoretical approaches to objects and cultural products way artifacts and objects are interpreted, used and represented in our social and economic institutions, our everyday lives and in a global context. We ask: What is the function of objects in contemporary capitalist societies? To what degree do we 'need' things to make our way in the world? How do objects inform our social identities? The course draws on a variety of theoretical approaches to explore the meaning, circulation and production of objects, including the relationship of objects to consumption. Topics may include cultural products and commodities, advertising, consumption and technologies, places and museums, media and visual displays, (Prerequisites: 48-213 48-291/202 or 48-220 and 48-291 and semester 5 or higher standing). (Credit may not be obtained for both 48-338 and 49-338).

48-415. Advanced Seminar in Culture, Power, and Globalization

A critical and substantive examination of culture in a global context, including cultural practices, political economy and culture, culture and representation and culture and identity. Topics may include: material culture, commodities and cultural products; colonialism; globalization; ideas of place and time; transnational networks. (Prerequisites: 48-391/302 or 48-356 or 48-373; 48-390/310 (or 48-355), 48-308 and semester 7 or higher standing, or consent of instructor.)

48-214. Gender, Culture, and Power

A feminist exploration of how sex/gender system intersects with other organizing categories to frame masculinity and femininity and people's roles and status in Canada and globally. It will examine how gender works in areas such as: popular culture, family, marriage, education, work, crime, migration, globalization or politics. (Prerequisites: third semester standing.)

48-336. Healing, Illness and Bodies

A survey of the social, cultural and political dimensions of health, drawing on both anthropological and sociological perspectives. The course provides a global perspective to address multiple issues in the study of health and illness, including relations between culture and health, the political economy of health, and globalization and health. Topics may include: specific health issues, different models of health, critical analysis of Western medicine/health models, and HIV/AIDS studies. (Prerequisites: 48-291/202 or 48-213, and semester 5 or higher standing.)

48-340. Food and Global Sustainability

This course offers a comparative examination of the emergence of a global food system and its implications for culture, environment, working conditions, health, and population movements. (Prerequisite 48-227 and semester 5 or higher standing.)

48-354. Gender, Space, and Time

An examination of sociological and anthropological approaches to the study of space-time relations within the field of gender studies, including a focus on the development of gendered environments and cultural practices. (Also offered as Women's and Gender Studies 53-354.) (Prerequisites: 48-214 or 53-100 and semester 5 or higher standing.)

Total courses: 6

- a) 29-121
- b) 29-122
- c) 29-221
- d) 29-222
- e) two French Studies courses (29-) that may be in Language Training, Translation, Linguistics, Literature or Culture

29-121. French Language Training I

A study of norms and functions of the French verb system, nouns, pronouns, and modifiers. Oral practice, pronunciation and composition. (Prerequisite: Grade 12“U” French or Français, or equivalent.) (Antirequisite: any previous 200-level French language training courses.)

29-122. French Language Training II

Further study of the norms and functions of the French verb system, nouns, pronouns, and modifiers. Development of reading comprehension. Oral practice, composition. (Prerequisite: Grade 12“U” French or Français, or equivalent.) (Antirequisite: any previous 200-level French language training courses.)

29-221. French Language Training III

Effective oral and written communication; practice in the logical development of ideas; vocabulary expansion. (Prerequisites: 29-121 and 29-122, or 29-123.)

29-222. French Language Training IV

Effective oral and written communication. Demonstration and discussion of the spoken and written codes, oral exercises, written practice (Prerequisites: 29-121 and 29-122 or 29-123 (double credit.)

Students must maintain an average of 60% or better in the courses applied to the Minor.

Total courses: 6

- a) courses chosen from the following to a total of six courses for the Minor: 45-120, 45-249, 45-335, 45-440, 58-100 or 58-110, 58-210, 66-100, 66-102, 66-200, 66-215, 66-216, 66-220, 66-221, 66-230, 66-316, 66-332, 66-334, 66-370, 66-381, 66-402.

Restrictions:

At least one course must be taken from 45-249, 45-335, 58-100 or 58-110, and 58-210. Only two courses can be taken from 66-102, 66-220 and 66-370.

45-120. Space, Place, and Scale: Foundations of Human Geography

An introduction to foundational concepts and approaches in the study of human geography, emphasizing the way social, political, economic, and environmental systems shape and are shaped by patterns of geographic and spatial organization.

45-249. Political Economy of Agriculture and Food

Critical examination of shifts in the political economy of agriculture and food, focusing on political, economic, social, and environmental changes occurring in and affecting agro-food production and consumption systems.

45-335. Political Geography

A systematic examination of the relationship between politics, power, and geography, with focus on the political meanings, uses, and representations of geographic space, and the significance of geography for understanding the organization and exercise of political power at local, regional, and global scales. (prerequisites: 45-120).

45-440. Remaking North America: Geographic Perspectives on US-Canada Politics

The political geography of the United States and Canada, in regional and global context, focusing on the political, cultural, and economic factors and processes shaping the two countries' internal political character, external relations, and bilateral relationship. Topics covered may include regional political cultures in the US and Canada, political and economic integration under NAFTA, American and Canadian electoral geographies, comparative analysis of immigration policy, and the meaning of the US/Canada border in the context of globalization. (Restricted to Semester 7 and 8 Political Science majors and Semester 7 and 8 International Relations majors. Students are recommended to take 45-120 before taking this course).

58-100. Introduction to Environmental Studies

This course introduces concepts, issues, and practices of Environmental Studies, emphasizing social, political, cultural, ethical, and ecological interactions between nature and society and involves concepts and research strategies from across the social and physical sciences. Topics may include conservation and development, forestry management, desertification and agricultural sustainability, energy production and use, the politics and science of global climate change, and the role of geographic scale in framing environmental problems. (Open only to students in the BES program.)

58-110. Humans and the Environment

Humans use energy and resources from our natural surroundings to live, and to develop our societies and cultures. This use has an impact on other animals and plants, and on the air, water, and land. Our impact is now so great that we are in danger of depleting or destroying many of the natural systems on which we depend. This course examines our relationship with the environment: the impact of our activities on the environment, and the natural world's impact on us. Key concepts for understanding this relationship are developed through a survey of current environmental issues, which may include topics such as: resources and sustainability, energy, population growth, globalization, urbanization, food and agriculture, and climate change. (May not be used to fulfill the major requirements for the B.E.S. degree.) (Can be taken as a Social Science option.) (Three lecture hours per week)

58-210. Canadian Regional Environments

Canada is a complex and varied nation. The environmental issues that concern each region of the country are also

complex and varied. This course surveys the dominant environmental issues and impacts in each region of Canada, and explores the reasons for the regional variation through a variety of lenses: its physical landscape, its resource opportunities and challenges, its historical settlement patterns and economic development, and its social, cultural, and demographic structure. This context is used to develop an understanding of current environmental news and events across the country. (Can be taken as a Social Science option.) (Three lecture hours per week.)

66-100. Introduction to Geomorphology

The landscapes of the earth, with particular reference to the glaciers, coastlines, rivers, and northern permafrost regions of Canada. (3 lecture hours a week.)

66-102. Atmosphere and Climate

An introduction to the atmosphere and the basic principles of meteorology and climatology. Topics include weather systems, atmospheric pollution and inadvertent climate modification, climate change and relationships between climate and living organisms. (3 lecture hours a week.)

66-200. Principles of Resource Management

Systems analysis methodologies, scientific theories, ecological approaches, and sustainable resource management principles will be presented to examine the interrelationships governing the availability and cumulative impacts of utilizing both renewable and non-renewable resources. Resource management auditing methods and techniques will be applied for the assessment of several indicators, including carrying capacity, ecological footprints, demographic transition, energy flows, agrosystems, land degradation, air and water quality, deforestation, biodiversity and successional changes. Discussions will also focus on integrative and adaptive resource management techniques and best management practices. (Antirequisite: 42-200.) (3 lecture hours a week.)

66-215. Introduction to Aerial Photography and Cartography

Basic concepts involved in cartographic theory and design, including map projections, longitude, latitude and UTM grid systems, and thematic and topographic maps, and the fundamentals of aerial photographs and other remotely sensed data (visible spectrum, infra-red and radar), satellite imagery, photogrammetry and photointerpretation. (2 lecture, 2 laboratory hours a week.)

66-216. Principles and Applications of Geographical Information Systems

This course emphasizes the principles, techniques, and applications of GIS. Lectures and laboratory exercises will focus on how to acquire, store, manipulate, and analyze spatial and non-spatial data. Data conversion, data reformatting, and data base development techniques will be explained. Students will create geographic coverages and learn techniques in the operation of a GIS by completing "hands-on" projects with modern GIS software. (It is recommended that students take 66-215 before taking this course.) (2 lecture, 3 laboratory hours a week.)

66-220. Climatology

A study of the major climatic elements, with special emphasis on the radiation budget, energy systems, and the hydrological cycle of Earth and the human environment. Climate classification, climatic change, climatological techniques, and aspects of applied climatology also will be examined. (Prerequisites: 66-102.) (2 lecture, 2 laboratory hours a week.)

66-221. Environmental Geomorphology

The study of landforms and Earth surface processes, and the impact of these processes on the environment. (2 lecture, 2 laboratory hours a week.)

66-230. Hydrology

Fundamental processes in physical hydrology that control movement and storage of water within a watershed or catchment basin. Components of the water balance (precipitation, interception, infiltration, evapotranspiration, runoff, storage) and their variations in space and time. Theoretical and practical approaches to measurement and forecasting of components and their linkages. Special consideration of snowmelt, streamflow, wetlands, and human impacts. (Prerequisites: one of 66-100, 66-102 or 66-141; and one of 02-250, 65-205, or other University-level mathematics or

statistics course; or consent of instructor.) (3 lecture, 2 laboratory hours a week.)

66-316. Environmental Modelling and Decision Analysis

An overview of different types of environmental models (e.g., conceptual, mathematical and statistical, process, and spatial) and how these models are used within a decision analysis framework. Learned theory is applied to a variety of problem scenarios in a series of hands-on lab exercises. Emphasis is on spatial problems that use GIS and spreadsheets as the principle problem-solving tools. Scenarios demonstrate how environmental practitioners constrain problems, express important model parameters, transform data, and make informed decisions in the face of uncertainty. (3 lecture and 2 laboratory hours per week.)(Prerequisite: 66-216 or consent of instructor).(Credit may not be obtained for both 66-316 and 67-310).

66-332. Issues in Resource and Environmental Systems

The complexities and nonlinear feedback mechanisms influencing the dynamic interactions between the allocation and utilization of biotic and abiotic resources in the spatial and temporal domains will be addressed within the conceptual framework of resource management paradigms, theories, and analytical methodologies. Contemporary problems and issues in resource and environmental systems will then be critically assessed, and best management practices will be appraised. (Prerequisites: 66-200 or consent of instructor.) (3 lecture and/or tutorial hours per week.)

66-334. Environmental Impact Assessment

This course provides an overview of the biogeophysical environment, and introduces peristametrics. The history, theories, and principles of Environmental Impact Assessment (EIA) will be examined and various methodologies for the preparation of an EIA report will be evaluated. Aspects of ethics, environmental laws, and administrative requirements for EIA studies in Canada are considered. EIA case studies are assessed and prepared. (Prerequisite: 66-332 or consent of instructor.) (3 lecture hours a week.)

66-370. Climate Change

A study of the causes of climate and climate change. Topics include the record of past climates, projection of future climate based on models incorporating anthropogenic factors, modification of local and regional climates, and the impact of these changes on the natural and human environment. (Prerequisite: 66-102 required, 66-220 recommended, or consent of instructor.) (3 lecture hours a week.)

66-381. Field Measurement and Mapping Techniques

Introduction to sediment and water sampling, mapping methods, and field measurements. Interpretation of topographic maps, use of compasses and GPS units. Integration of field data into a GIS. Designed for Environmental Studies students. (Prerequisites: 66-100, 66-141 and 66-216 or consent of instructor.)(1 week of fieldwork preceding Fall semester and 3 field or laboratory hours per week).

66-402. Remote Sensing

An integrated course dealing with contemporary principles and applications of aerospace remote sensing. Emphasis will be placed on scanning systems; multispectral sensors; the identification and interpretation of spectral signatures; how the imagery obtained by sensors is analyzed optically or digitally to yield Earth resource information; and the manipulation and display of remotely-sensed data. (Prerequisite: 66-215 or 66-216, or consent of instructor.) (2 lecture, 1.5 laboratory hours a week.)

Total courses: 6

- a) 6 courses in Greek and Roman Studies, with no more than four at the 100-level

11-161. Introduction to Greek Civilization

An introduction to the cultural values and achievements of the ancient Greeks. Topics will include geography, history, mythology and religion, language and literature, art and daily life. (Recommended for prospective Greek and Roman Studies majors.)

11-162. Introduction to Roman Civilization

An introduction to the cultural values and achievements of the ancient Romans. Topics will include geography, history, mythology and religion, language and literature, art and daily life. (Recommended for prospective Greek and Roman Studies majors.)

11-211. Greek Prose

An introduction to ancient Greek prose literature from the fifth century BC to the second century AD, with selected readings in translation. Authors may include historiographers, orators, philosophers, or novelists. Topics may vary from year to year. (May be repeated for credit if content changes.)

11-212. Greek Poetry

An introduction to ancient Greek poetry from the eighth century BC to the second century AD, with selected readings in translation. Authors may include Homer, Hesiod, other early Greek poets, or dramatists (including those of tragedy, comedy, and the satyr play). Topics may vary from year to year. (May be repeated for credit if content changes.)

11-221. Latin Prose

An introduction to ancient Latin prose literature from the third century BC to the second century AD, with selected readings in translation. Authors may include orators, historiographers, novelists, or philosophers. Topics may vary from year to year. (May be repeated for credit if content changes.)

11-222. Latin Poetry

An introduction to ancient Latin poetry from the third century BC to the fourth century AD, with selected readings in translation. Authors may include dramatists, epic poets, elegists, or satirists. Topics may vary from year to year. (May be repeated for credit if content changes.)

11-265. Greek Art and Archaeology

A study of the artistic masterpieces and monuments of ancient Greece. Topics will include the search for Troy, the spirit of Greek sculpture, and Athens in the Golden Age. (Prerequisite: 11-161 or consent of instructor.)

11-266. Roman Art and Archaeology

A study of the artistic masterpieces and monuments of ancient Rome. Topics will include the tombs of the Etruscans and treasures of Pompeii and Rome in the days of the Caesars. (Prerequisite: 11-162 or consent of instructor.)

11-271. Religions of the Ancient World

An introduction to religions from the ancient Near East and Mediterranean, such as those of Mesopotamia, Egypt, Israel, Greece, and Italy. Topics may include the decline of paganism and polytheism and the rise of Christianity and monotheism, sacred texts and rituals, priests and other religious personnel, and mystery religions and mysticism. (Prerequisite: 11-161 or 11-162, or consent of instructor)

11-280. Topics in Classical Culture

A thematic examination of a single social historical topic in Greco-Roman antiquity. Topics may vary from year to year. (May be repeated for credit if content changes.)

11-320. Topics in Classical Literature

An in-depth study of some aspect of ancient Greco-Roman literature that may be thematic or generic in scope. Topics may vary from year to year. May be repeated for credit if content changes. (Prerequisite: 11-161 and 11-162, or consent of instructor)

11-330. The Ancient World on the Screen

An exploration of modern depictions of ancient Greece and/or Rome in movies and/or on television. (Prerequisite: 11-161 and 11-162, or consent of instructor.)

11-360. Topics in Ancient Material Culture

This rotating topics course provides an in-depth study of some aspect of ancient material culture that may be thematic or chronological in scope. Required readings more usually consist of ancient sources in English translation and/or articles in modern scholarly journals than formal textbooks. May be repeated for credit if content changes. (Prerequisite: 11-265 or 11-266).

11-370. Greek Mythology

A study of the myths and legends of ancient Greece. Modern theories of myth will be used to analyze the Greek material. They study will include both literary sources in translation and the portrayal of myth in visual art and in architecture. (Prerequisite: 11-161 and 11-162, or consent of instructor.)

11-372. Roman Mythology

A study of the myths and legends of ancient Rome. Modern theories of myth will be used to analyze the Roman material. The study will include both literary sources in translation and the portrayal of myth in visual art and in architecture. (11-161 and 11-162, or consent of instructor)

11-401. Seminar in Classical Studies

An in-depth study of an aspect of Greco-Roman antiquity. Topics may vary from year to year. (Prerequisite: at least semester 5 standing, or consent of instructor)

11-450. Practicum in Classical Archaeology

Students will participate in various aspects (e.g. digging, artifact processing and analysis) of the excavation of an ancient Greek or Roman site in Europe. They will also visit and report on several key archaeological sites in the region. (Note: this is a 6-credit-hour course.) (Prerequisites: Admission only by consent of instructor after an interview with the candidate. Experience in Classical Studies courses (numbered 01-11-xxx and/or 01-12-xxx) is highly recommended, though not always essential. Given the nature of archaeological excavation abroad, the assembly of a team of hardworking, emotionally mature, and mutually compatible individuals is of paramount importance. All other factors being equal, preference will be given to Classical Studies majors over non-majors and to more senior students over more junior.) May be repeated for credit if content changes.

11-460. Directed Readings in Classical Civilization

Designed for the advanced student who wishes to explore a special area of interest with the aid of a faculty advisor. (May be repeated for credit if content changes.) (Hours by arrangement.)

Minor in History (Faculty of Arts, Humanities, and Sciences)

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Total courses: 6

- a) 6 courses in History (02-43-***), only one may be at the 100-level and two must be at the 300-level or above
Students seeking a second teachable subject area in History are advised that they must take two courses in Canadian History*.

*Contact the Department of History to inquire about Canadian History courses.

[All History courses at UWindsor \(link\).](#)

Total courses: 6

- a) 06-120
- b) five of: 06-110, 06-111, 06-170, 06-220, 06-230, 06-235, 06-236, 06-270, 06-370

06-110. Hebrew for Beginners I

A brief introduction to the Semitic languages of which Hebrew is a prominent member, including a survey of the main epochs of the Hebrew language such as Biblical Hebrew, the Hebrew of medieval Spain, the renaissance of Hebrew in the 19th century and modern Hebrew. Elements of the language to be covered include the printed alphabet, the roots of Hebrew words, basic vocabulary and the structures of sentences. Assignments will include writing basic words and reading elementary texts. No previous knowledge of Hebrew is required.

06-111. Hebrew for Beginners II

This course is a continuation of 06-110. Included are additional roots of Hebrew words, increased vocabulary including the tenses of words, more complex sentence structures, reading more advanced texts and writing basic sentences. (prerequisite: 06-110)

06-120. Introduction to Jewish Civilization

This course will introduce basic Jewish thought and practices focussing on Jewish religious and cultural traditions from its earliest beginnings through the dramatic events of the last century. The course will examine Jewish perspectives on God, Torah, prayer, the afterlife, the Jewish life cycle, the holiday cycle of the Jewish year and Jewish identity.

06-170. Introduction to Diaspora Studies: There's No Place Like Home

This course introduces students to diasporas-scattered populations living in exile from their ancestral homelands. The course focuses on the significance of migration, exile, belonging, and nostalgia (for ancestral homelands) for diasporas throughout the world. Students submit projects (incorporating oral histories, for example) on the diaspora of their choice. (Also offered as Diaspora Studies 35-170 and Political Science 45-170)

06-220. Jewish Mysticism

The purpose of this course is to understand Jewish spirituality and mystical experience through various mystical traditions including Spanish Kabbalah, Lurianic Kabbalah, the Sabbatean heresy and Polish Hasidism.

06-230. Hebrew Bible: Text and Meaning

Because of the centrality of the Bible to Jewish thought, it has been the subject of many important commentaries by Rabbis over the centuries. These commentaries, known in Hebrew as Midrash, attempt to understand not only the literal meaning of the text but also to understand its deeper meaning in terms of morals and values, mystical insights and allegorical interpretations. Disciplines such as psychology, archaeology, literary analysis and anthropology are used to gain a better understanding of the text.

06-235. To Auschwitz and Beyond: Reflections on the Meaning of the Holocaust

An examination of responses to key issues raised by the Holocaust as reflected in postwar culture both in Canada and abroad.

06-270 The Jewish Diaspora: Ancient to Modern

This course will acquaint students with the Jewish Diaspora over the centuries. The existence of the Jewish people as a dispersed people is central to understanding their diversity, shared identity and aspirations. Various major migrations and individual Jewish communities will be examined. (Also offered as Diaspora Studies 35-270)

06-370. Jews and the Modern World

This course will examine Judaism through the prism of modern intellectual and social movements which Jews have embraced and of which they often have been leaders. These include liberalism, socialism, capitalism, feminism and Zionism. Jewish contributions to the rise of the social sciences also will be examined.

Total courses: 6

- a) 23-261
- b) 43-272
- c) two of: 43-462, 48-227, 48-352
- d) 23-100* and 23-101 (or 23-102), or two intermediate or advanced level courses in Spanish language training (as appropriate, as determined by a placement test).

*23-100 has been eliminated from online calendar, please contact Languages, Literatures, and Cultures for appropriate substitution.

23-101. Spanish for Beginners II

Basic skills of listening, speaking, reading, and writing and an introduction to Hispanic cultures. (Prerequisite: 23-100 or equivalent.)

23-102. Intensive Spanish for Beginners

This intensive language-training course combines the content of 23-100 and 23-101 in a single term. Note: 6 hours of class time per week. (Only for students with no prior knowledge of Spanish.) (Antirequisites: 23-100 or 23-101.)

23-202. Intensive Intermediate Spanish

This intensive language-training course combines the course content of two courses into a single term. Students will obtain credit for two courses. (6 credit hours; 6 hours of class time per week.) (Prerequisites: 23-100 and 23-101, or 23-102.) (Antirequisites: 23-200 and 23-201.)

23-261. Culture and Civilization of Spanish America

Readings and discussion, in English, of topics from the history and culture of Spanish America.

23-300. Advanced Spanish I

Further study of grammar and syntax. Written and oral exercises emphasizing subtle and/or particularly difficult grammar points. (Prerequisite: 23-221, 23-202 or permission of Program Advisor.)

23-301. Advanced Spanish II

Continuation of 23-300. (Prerequisite: 23-300 or permission of Program Advisor).

43-272. Modern Latin America

Nation-states in Spanish America, Brazil and the Caribbean, from the revolutions of independence to the present. Covers patterns of political and economic development shared throughout the continent. Country and thematic focus may vary from year to year, and may include the Haitian, Mexican, and Cuban revolutions, modern military dictatorships, resources and the environment, and gender and ethnic relations.

43-462. United States-Latin American Relations in the 20th Century

The rise and shaping of U.S. power in the hemisphere, with emphasis on Latin American responses. Topics may include military intervention and anti-imperialist movements, cultural and other non-governmental exchanges, and the evolution of inter-American trade. (Prerequisite: Restricted to History majors and other students with at least semester 5 standing and permission of the instructor.)

48-227. Globalization, Development and Social Change

This course examines such issues as the impact of colonialism on global poverty and trade policies, global restructuring, neoliberal policies, global governance, poverty alleviation efforts, cultural resistance, gendered patterns of development, population displacements and popular responses to globalization. (Prerequisites: third semester standing.)

48-352. Citizenship, Rights, and Social Justice

An examination of the impact of the 'global' on social and economic processes, human rights and struggles over rights in

specific locales worldwide. Topics may include: gender-based violence, poverty and 'development', children's rights, changing labour practices; human rights principles and institutions; and cultural and political struggles for rights in European, North American, and post-colonial settings (Prerequisite: 48-213 or 48-291/202, 48-214, and semester 5 or higher standing.)

Students must maintain an average of 60% or better in the courses applied to the Minor.

Total courses: 6

- a) six of: 62-120 or 62-125 or 62-126, 62-139 or 62-140, 62-141, 62-190, 62-215, 62-216, 62-220, 62-221, 62-3**, 62-4**, 65-205 or 65-250.

62-120. Linear Algebra I

This course will cover linear systems, matrix algebra, determinants, n-dimensional vectors, dot product, cross product, orthogonalization, eigenvalues, eigenvectors, diagonalization and vector spaces. (Prerequisites: Both Ontario Grade 12 Advanced Functions (MHF4U) and Calculus and Vectors (MCV4U) or 62-102.) (Antirequisites: 62-125, 62-126.) (3 lecture hours, 2 tutorial hours per week.)

62-125. Vectors and Linear Algebra

This course is for students without Ontario Grade 12 Calculus and Vectors (MCV4U). The course 62-120 is for students with MCV4U. This course will cover vectors, three-dimensional geometry, linear systems, matrix algebra, determinants, n-dimensional vectors, dot product, cross product, orthogonalization, eigenvalues, eigenvectors, diagonalization and vector spaces. (Prerequisite: Ontario Grade 12 Advanced Functions (MHF4U).) (Antirequisites: 62-120, 62-126.) (4 lecture hours, 2 tutorial hours per week.)

62-126. Linear Algebra (Engineering)

Linear systems, matrix algebra, determinants, vectors in R_n , dot product, orthogonalization, and eigenvalues. (Prerequisite: 62-102 or Grade 12 Advanced Functions and Grade 12 Calculus and Vectors, or equivalent.) (Antirequisite: 62-120, or 62-125.) (3 lectures hours, 1 tutorial hour a week.)

62-139. Functions and Differential Calculus

This course will cover a review of functions, trigonometric functions and identities, transcendental functions, inverse trigonometric functions, introduction to limits, continuity, derivatives and applications, mean value theorem, indeterminate forms and l'Hôpital's rule, antiderivatives and an introduction to definite integrals. This course is for students who have taken Ontario Grade 12 Advanced Functions (MHF4U), but have not taken Ontario Grade 12 Calculus and Vectors (MCV4U). Students who have credit for MCV4U should take 62-140. The course is equivalent to 62-140 for all prerequisite purposes. (Prerequisite: Ontario Grade 12 Advanced Functions (MHF4U).) (Antirequisite: 62-140.) (4 lecture hours, 2 tutorial hours per week.)

62-140. Differential Calculus

This course will cover trigonometric functions and identities, inverse trigonometric functions, limits and continuity, derivatives and applications, mean value theorem, indeterminate forms and l'Hôpital's rule, antiderivatives and an introduction to definite integrals. This course is for students who have taken both Ontario Grade 12 Advanced Functions (MHF4U) and Ontario Grade 12 Calculus and Vectors (MCV4U). Students who do not have credit for MCV4U should take 62-139. (Prerequisites: Ontario Grade 12 Advanced Functions (MHF4U) and Ontario Grade 12 Calculus and Vectors (MCV4U) or 62-101.) (Antirequisite: 62-139.) (3 lecture hours, 2 tutorial hours per week.)

62-141. Integral Calculus

This course will cover antiderivatives, the definite integral and the fundamental theorem of calculus, techniques of integration, applications, improper integrals, sequences and series, convergence tests, power series, Taylor and Maclaurin series, and polar and parametric coordinates. (Prerequisite: 62-139 or 62-140.) (3 lecture hours, 1 tutorial hour per week.)

62-190. Mathematical Foundations

This course will cover mathematical logic, proof methods and development of proof techniques, mathematical induction, sets, equivalence relations, partial ordering relations and functions. (Prerequisite: One of 60-100, 62-120, 62-125 or 62-126.) (2 lecture hours, 2 tutorial hours per week.)

62-215. Vector Calculus

This course will cover quadric surfaces, vector differential calculus, functions of several variables, maximum and minimum problems, multiple integrals, vector differential operators, line and surface integrals, Green's theorem, Stokes' theorem and Gauss' theorem. (Prerequisites: 62-141, and one of 62-120, 62-125 or 62-126.) (3 lecture hours, 1 tutorial hour per week.)

62-216. Differential Equations

This course will cover first-order ordinary differential equations (ODEs), higher-order ODEs with constant coefficients, Cauchy-Euler equations, systems of linear ODEs, Laplace transforms, and applications to science and engineering. (Prerequisites: 62-141, and one of 62-120, 62-125 or 62-126.) (3 lecture hours, 1 tutorial hour per week.)

62-220. Linear Algebra II

This course is a rigorous and proof-based study of linear systems, vector spaces, linear transformations, projections, pseudo-inverses, determinants, inner product spaces and applications. (Prerequisites: 62-190 and one of 62-120, 62-125 or 62-126.) (3 lecture hours, 1 tutorial hour per week.)

62-221. Linear Algebra III

This course is a rigorous and proof-based study of eigenvalues and eigenvectors, diagonalization, similarity problem, canonical form for real and complex matrices, positive definite matrices, computational methods for approximating solutions to systems of linear equations and eigenvalues. (Prerequisite: 62-220.) (3 lecture hours, 1 tutorial hour per week.)

65-205. Statistics for the Sciences

This course will cover descriptive statistics, probability, discrete and continuous distributions, point and interval estimation, hypothesis testing, goodness-of-fit and contingency tables. (Prerequisite: Grade 12 "U" Advanced Level Mathematics (MHF4U, MCV4U, MDM4U) or Grade 11 Functions and Applications (MCF3M) or Grade 11 Functions (MCR3U).) (Antirequisites: 02-250, 73-101, 73-102, 73-105, 73-205 and 85-222.) (May not be taken for credit after taking 65-250 or 65-251.) (3 lecture hours, 1 tutorial hour per week.)

65-250. Introduction to Probability

This course will cover descriptive measures, combinatorics, probability, random variables, special discrete and continuous distributions, sampling distribution, and point and interval estimation. (Prerequisite: 62-141.) (3 lecture hours, 1 tutorial hour per week.)

To complete the requirement for this minor, students normally will take the following language-training courses in one language-option area:

German:

- a) 15-102*, 15-202*, 15-300, 15-301.

Italian:

- a) 21-102*, 21-202*, 21-300, 21-301.

Spanish:

- a) 23-102*, 23-202*, 23-300 and 23-301.

NOTE: Students with a prior knowledge of the target language must meet with a Modern Languages counsellor before registering for a Minor in that language.

**Double-weighted course.*

15-102. Intensive German for Beginners

This intensive language-training course combines the content of two courses into a single term. Students will obtain credit for two courses. Note: 6 hours of class time per week. (Only for students with no prior knowledge of German.)

15-202. Intensive Intermediate German

This intensive language-training course combines the content of two courses into a single term. Students will obtain credit for two courses. Note: 6 hours of class time per week. (Prerequisites: 15-101 or 15-102, or permission of instructor.)

15-300. Advanced German I

Further study of grammar and syntax. (Prerequisite: 15-202 or permission of Program Advisor.)

15-301. Advanced German II

Continuation of 15-300. (Prerequisite: 15-300, or consent of a program advisor.)

21-102. Intensive Italian for Beginners

This intensive language-training course combines the course content of 21-100 and 21-101 into a single term. Note: 6 hours of class time per week. (Only for students with no prior knowledge of Italian) (Antirequisites: 21-100 or 21-101.)

21-202. Intensive Intermediate Italian

This intensive language-training course combines the content of two courses into a single term. Students will obtain credit for two courses. Note: 6 hours of class time per week. (Prerequisites: 21-101 or 21-102, or permission of instructor.) (Antirequisites: 21-200)

21-300. Advanced Italian I

Emphasis on reading, understanding and writing commentaries on short literary, historical and journalistic texts with the support of reference tools. (Prerequisite: 21-202 or permission of Program Advisor.)

21-301. Advanced Italian II

Continuation of 21-300. Emphasis on oral discussion of cultural and literary texts and written enhancement of idiomatic usage of the language with the support of appropriate tools. (Prerequisite: 21-300 or permission of program advisor.)

23-102. Intensive Spanish for Beginners

This intensive language-training course combines the content of 23-100 and 23-101 in a single term. Note: 6 hours of class time per week. (Only for students with no prior knowledge of Spanish.) (Antirequisites: 23-100 or 23-101.)

23-202. Intensive Intermediate Spanish

This intensive language-training course combines the course content of two courses into a single term. Students will obtain credit for two courses. (6 credit hours; 6 hours of class time per week.) (Prerequisites: 23-100 and 23-101, or 23-102.) (Antirequisites: 23-200 and 23-201.)

23-300. Advanced Spanish I

Further study of grammar and syntax. Written and oral exercises emphasizing subtle and/or particularly difficult grammar points. (Prerequisite: 23-221, 23-202 or permission of Program Advisor.)

23-301. Advanced Spanish II

Continuation of 23-300. (Prerequisite: 23-300 or permission of Program Advisor).

- a) one of the following intensive language-training course*, or equivalent, in one language-option area (German: 15- 102; Italian: 21-102; Spanish: 23-102);

NOTE: Students with a prior knowledge of the target language must meet with a Modern Languages counsellor before registering for a Minor in that language.

- b) 07-137;
- c) two of the following culture and/or civilization courses in the chosen language option area: (German 15-248, 15-260, 15-261; Italian 21-248, 21-260, 21-261; Spanish 23-248, 23-260, 23-261);
- d) one of 07-202 or 07-203.

NOTE: Modern Languages students may take a minor in a language other than their major. If courses in the minor also form part of the major, a substitution of these courses will be permitted with the approval of the Programme Co-ordinator.

**Double-weighted course.*

15-102. Intensive German for Beginners

This intensive language-training course combines the content of two courses into a single term. Students will obtain credit for two courses. Note: 6 hours of class time per week. (Only for students with no prior knowledge of German.)

21-102. Intensive Italian for Beginners

This intensive language-training course combines the course content of 21-100 and 21-101 into a single term. Note: 6 hours of class time per week. (Only for students with no prior knowledge of Italian) (Antirequisites: 21-100 or 21-101.)

23-102. Intensive Spanish for Beginners

This intensive language-training course combines the content of 23-100 and 23-101 in a single term. Note: 6 hours of class time per week. (Only for students with no prior knowledge of Spanish.) (Antirequisites: 23-100 or 23-101.)

07-137. Introduction to German, Italian, and Spanish Literature

A study of the history and culture of European civilization through salient works of German, Italian and Spanish literature (in English translation).

15-248. German Cinema

This course will cover the main periods of German cinema: expressionism of the 1920s, propaganda films of the Nazi era, East and West-German Cold War cinema and films of the post-reunification period. The focus will be on German film language and the historic and cultural traditions.

15-260. German Culture and Civilization I

An interdisciplinary introduction to political, social, and cultural developments in Germanic lands before 1815. (Taught in English. No prerequisites. May be repeated more than once if content changes.)

15-261. German Culture and Civilization II

An interdisciplinary introduction to political, social, and cultural developments in Germanic lands from 1815 onward. (Taught in English. No prerequisites. May be repeated more than once if content changes.)

21-248. Italian Cinema

The course takes the student on a journey through fifty years of Italian history using subtitled films representative of three pivotal periods. The course is taught in English.

21-260. Italian Culture and Civilization I

The cultural traditions of Italy from early times to the end of the Middle Ages. (Taught in English.) (Italian majors will be expected to do assigned work in Italian.)

21-261. Italian Culture and Civilization II

The cultural traditions of Italy from the Renaissance to modern times. (Taught in English.) (Italian majors will be expected to do assigned work in Italian.)

23-248. Spanish Cinema

This course will study the cinema of Spain and/or Latin America. The focus will be on important film directors, such as Saura, Almodovar or Buñuel as well as the main issues covered by these films (e.g. youth culture, perception of women, literature and film, social analysis, etc.). The course will place the films into an historic, social and artistic context. The course is conducted in English with subtitled or dubbed films.

23-260. Culture and Civilization of Spain

Readings and discussion, in English, of topics from the history and culture of Spain.

23-261. Culture and Civilization of Spanish America

Readings and discussion, in English, of topics from the history and culture of Spanish America.

07-202. Culture and Ideas: From the Black Death to the Enlightenment

An interdisciplinary, team-taught survey course focussing on major issues and achievements in European civilization from the late Middle Ages to the era of the Enlightenment, including literary, religious, and philosophical writings as well as art and music.

07-203. Culture and Ideas: From the French Revolution to the Present

An interdisciplinary, team-taught survey course focussing on major issues and achievements in Europe and North America in the nineteenth, twentieth, and twenty-first centuries, including development in the visual arts, music, architecture, philosophy, religion, literature and science.

Total courses: 6

- a) three linguistics courses as follows: 07-120, 07-220, 07-320;
- b) three literature courses as follows: 07-137, 07-237, 07-337.

07-120. Introduction to Language and Linguistics

An introduction to the scientific study of language, including language structure, sound systems, semantics, language origins, language families and language classification, (Required of all Modern Languages majors and recommended in the first year of study.)

07-220. Language, Linguistics and Society

This course complements 07-120. The scientific study of language and its interaction with society: contextualized language use, discourse and text linguistics, social and regional variation, language and the brain, language processing, language acquisition, and writing systems. (Required of all Modern Languages majors. Recommended to take in sequence with 07-120)

07-320. Theories of Language Acquisition

An introduction to current theories regarding how language is acquired, with a special focus on the acquisition of second and additional languages, and on the factors that play a role in the acquisition process. (Prerequisites: 07-120 or 07-220, or equivalent or consent of instructor.)

07-137. Introduction to German, Italian, and Spanish Literature

A study of the history and culture of European civilization through salient works of German, Italian and Spanish literature (in English translation).

07-237. German, Italian and Spanish Literary Traditions

A study of the forms and structures of German, Italian and Spanish literature (in English translation) including a survey of genres, styles and rhetorical figures. (Antirequisites: 07-237 and the former 07-334.)

07-337. Applied Literary Criticism

A hands-on approach to selected theories used to analyze literary texts and films. Students will read and write literary criticism, with an aim to understanding the underlying questions, assumptions, interpretive possibilities and limitations of each theoretical approach. (Students cannot obtain credit for both 07-337 and the former 07-437.)

Minor in Music (Faculty of Arts, Humanities, and Sciences)

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Total courses: 6

- a) two courses in the area of Music History and Literature (Musicology)
- b) two courses in the area of Music Theory and Composition
- c) two additional music courses with the exception of private instruction courses (300-level series).

Contact School of Creative Arts (Music) for *Music History and Literature* and *Music Theory and Composition* courses.

[All Music courses at UWindsor \(link\).](#)

Total courses: 6

- a) 80-400
- b) 80-405
- c) 80-410
- d) 80-415
- e) 80-420
- f) 80-480

80-400. Diversity and Inclusion in the Learning Organization

This course will examine the evolution of the concepts of diversity and inclusion in social organizations, key management practices for improving performance, and current diversity and inclusion challenges in organizations. Diversity and inclusion are important aspects of learning organizations for the purpose of developing strategic options for improvement in many different ways. (Prerequisite: Semester 3 or above standing)

80-405. Instructional Technologies

This course has been designed to provide students with an introduction to theoretical and practical issues pertaining to the use of informational and instructional technologies in learning organizations. Students will examine and critique the context of the field of instructional technologies and learn to apply current instructional technologies and media to instructional design and practice and the enhancement of learning opportunities. Basic concepts in educational technology, major developments, the present status of informational and instructional technologies, key principles of educational technology as an approach and tool for teaching and learning, and the development of appropriate educational technologies in terms of a learning organization's goals will also be examined. Technological literacy will be emphasized throughout while exploring computer applications, the utilization of converging digital technologies, and the use of the internet and web resources. (Prerequisite: Semester 3 or above standing)

80-410. Learning-Centred Teaching: Planning, Delivery, Assessment, and Evaluation

Students will learn about principles and theories of learning-centred practices. Specifically, students will critically examine and synthesize the findings of current research and scholarly texts on teaching and learning to develop a critical personal understanding of learning-centred practices that are applicable to a wide range of diverse workplace contexts. Through assigned readings and texts, students will acquire, integrate, and apply knowledge pertaining to planning, instructional delivery, and the assessment and evaluation of learning. Self-, peer-, and teacher-evaluated assignments will provide students with opportunities to integrate research and practice and to facilitate the development of particular skills, notably, interpersonal communication skills, planning, facilitation and organization of learning, critical thinking, inquiry learning, and reflection. (Prerequisite: Semester 3 or above standing)

80-415. Learning Organizations: Management and Leadership

Students will learn about current management theories and practices in contemporary learning organizations where learning is a primary or significant characteristic or quality of the organization. Specifically, from a leadership perspective, this course will examine the nature of leading and managing in learning organizations, the role of learning, and the complex legal, ethical, and social issues that give shape to the organization and its leaders. Through the use of a variety of resources and approaches, students will explore and question theories, models, tools, and best practices for managing and leading in learning organizations, prompting and providing critical perspectives and practical tools that may be applied in different contexts. (Prerequisite: Semester 3 or above standing)

80-420. Theories of Individual and Collective Learning

Students will examine current theories pertaining to learning and learners in diverse organizational contexts. Particular themes will be examined, including the nature of learning, patterns of growth and development, the dynamics and complexities of learning in diverse educational contexts, and current educational realities in society. Specifically, students will examine a number of important issues, such as: learning and cognitive processes; personal, social and moral development; individual and group differences; social-cognitive views (e.g., racial discrimination, bullying, harassment, abuse, gender bias, xenophobia, homophobia, stereotyping); motivation and cognition relevant to individual and collective learning; knowledge construction and higher-order thinking. In this course, students will

develop a critical awareness of learning theories and related issues and will critique, analyze, and reflect on the underlying assumptions associated with matters and the implications for individual and collective learning in learning organizations.(Prerequisite: Semester 3 or above standing)

80-480. Experiential Learning Field Placement

This course has been designed to provide students with an experiential learning opportunity with which to connect theoretical and practical issues in a field-based learning environment. Under the guidance of the course instructor and the partners in the field, students will engage in a collaborative process leading to the production of a final paper on an issue or topic of inquiry of relevance to the partners in the field. This course will present students with authentic assessment tasks that situate their on-going inquiries in a context that enables them to apply and further critique what has been previously learned. Students will engage in matters pertaining to learning and learners applicable to research, needs assessment, program review, and policy development, as appropriate. The final project will be grounded in the field experience, and will show evidence of knowledge, skills of inquiry, reflection and problem-solving acquired through the other courses. This course will be taken following completion of the other course-work in the minor option.

(Prerequisites: 80-400, 80-405, 80-410, 80-415, 80-420).

Total courses: 6

- a) 34-110;
- b) five additional Philosophy courses (01-34-***), with no more than one other course at the 100-level, and with at least one at the 300-level or above.

34-110. Introduction to Western Philosophy

An introduction to philosophy through the study of major figures and movements in the Western philosophical tradition. The figures and themes selected for any given year will be chosen by the instructor.

[All Philosophy courses at UWindsor \(link\).](#)

Students must maintain an average of 60% or better in the courses applied to the Minor.

Total courses: 6

- a) 64-140;
- b) 64-141;
- c) 64-151;
- d) 64-220;
- e) 64-222;
- f) 64-250.

64-140. Introductory Physics I

Mechanics; properties of matter and heat. A calculus-based course. (Prerequisites: Grade 12“U” Advanced Functions and Introductory Calculus or equivalent.) Recommended co-requisite: 62-140.) (3 lecture hours a week, 2 laboratory hours and 1 tutorial hour every week). Open to students in Human Kinetics, Forensic Science, Bachelor of Arts and Science, , and all programs within in the Faculty of Science; exceptions only with the permission of the Head or designate. (Antirequisites: 64-130, 64-134, and 64-144).

64-141. Introductory Physics II

Wave motion, sound, electricity and magnetism, light, and modern physics. (Prerequisite: 64-140 or 85-111.) (3 lecture hours per week, 1 tutorial hour and 2 laboratory hours every week.) Antirequisites: 64-145, 64-131, 64-135.) (Open to students in Engineering, Human Kinetics, Forensic Science, Bachelor of Arts and Science, and all programs within in the Faculty of Science; exceptions only with the permission of the Head or designate.)

64-151. From Symmetry to Chaos in the Universe: An Introduction to Theoretical Methods in Contemporary Physics

An introduction to the pillars of 20th and 21st century physics which form the basis of subsequent courses in physics and the basis of current research: complexity and chaos, special and general relativity, quantum phenomena, symmetry and symmetry breaking, and cosmology. Motivated by these pillars, mathematical tools and techniques that are used extensively in physics for practical problem solving and data analysis are introduced at a first-year level. Computer-aided graphical and approximate computational methods will also be introduced. (Prerequisites: 64-140, 62-140, and 62-120) [3 lecture hours and one tutorial hour per week.]

64-220. EM Fields and Photons

Electrostatic fields and potentials. Charges and capacitance. Currents and conduction in solids. Magnetic fields; induction; introduction to Maxwell equations, electromagnetic waves, and photons; the photoelectric effect. (Prerequisite: 64-141, or 85-124, or equivalent.) (3 lecture, 3 laboratory hours a week.)

64-222. Optics

Geometrical optics: review of laws of reflection and refraction; lenses and mirrors (matrix optics); stops, optical systems, aberrations. Introduction to wave optics; interferometry, diffraction, polarization, Fresnel equations, elements of dispersion theory. (Prerequisites: 64-141 and 62-141.) (3 lecture, 3 laboratory hours a week.)

64-250. Mechanics

Newton's Laws, Galilean transformations, rotating reference frames, conservation laws, angular momentum and torque, driven oscillators with damping, dynamics of rigid bodies, inverse square forces, Lorentz transformation, relativistic kinematics and dynamics. (Prerequisite: 64-141, and 62-141 or equivalent; recommended: 62-120 or 62-125.) (3 lecture hours, 1 tutorial hour a week.)

Total courses: 6

- a) 45-100;
- b) one of: 45-130 or 45-160;
- c) four additional Political Science courses (02-45-***) at the 200-level or above.

45-100. Introduction to Canadian Government and Politics

An introduction to the politics and government of Canada. The course will focus on political culture, the constitution, federalism, the executive, parliament, public service, courts, political parties, interest groups, and elections. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

45-130. Comparative Politics in a Changing World

Introduces students to issues such as democracy, authoritarianism, nationalism, political culture, and how political power is organized. The course focuses on the democratic states of the West, but also examines non-democratic states such as China and the transitional democracies of Eastern Europe. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

45-160. Introduction to International Relations

An examination of competing perspectives on international relations and of such critical themes as power, security, war, imperialism, nationalism, interdependence, development and underdevelopment, human rights, environmental concerns, and the quest for a new world order. (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

[All Political Science courses at UWindsor \(link\).](#)

Total courses: 6

- a) 46-115;
- b) 46-116;
- c) four additional Psychology courses (02-46-***) at the 200-level or above.

46-115. Introduction to Psychology as a Behavioural Science

Introduction to selected areas in psychology including learning, perception, physiological psychology, emotion, and motivation.

46-116. Introduction to Psychology as a Social Science

Introduction to selected areas in psychology including developmental, social, personality, and clinical.

[All Psychology courses at UWindsor \(link\).](#)

Total courses: 6

- a) 38-101;
- b) 38-321;
- c) four of: 07-235, 24-378, 24-471, 26-128, 26-354, 26-358, 27-285, 34-227, 34-236, 34-323, 38-447, 40-225, 40-370, 43-251/53 -200, 43-349, 45-211, 45-241, 46-240, 46-334, 46-440, 46-445, 47-117, 47-210, 48-375, 53-260, 53-320, 53-410, 54-100, 54-200, 95-405.

*NB: Students are responsible for ensuring that they have the required pre-requisites for enrolment in the above list of courses.

38-101. Social Justice in Action

Students investigate the local and global origins of a contemporary social problem through the eyes of social justice activists. Students will assess the strengths and limitations of strategies and theoretical frameworks for social change and use this knowledge to create social action messages that raise public awareness, influence government or corporate policy, or positively change attitudes and behaviours. (3 lecture hours per week) (Also offered as Disability Studies 37-101)

38-321. Social Justice Seminar

An inter-disciplinary exploration of the role of the state, alternative media, arts, literature, critical pedagogy, international and domestic law, social movements, non-governmental agencies, international governmental agencies, and scholars in bringing about social change. (Prerequisites: 38-101 and semester 5 standing.)

38-447. Practicum in Social Justice

This course offers students the opportunity to apply their academic knowledge in a practical setting. Students will be placed with organizations dedicated to the pursuit of social justice in the Windsor area. Students will be assigned a major project to be completed under the supervision of the course instructor and an on-site practicum supervisor. Students will be expected to contribute a minimum of three hours per week, meeting regularly with course instructor to provide oral and written reports. This course is open to Social Justice majors only. Prerequisites: 38-321 and semester 5 standing.

07-235. To Auschwitz and Beyond: Reflections on the Meaning of the Holocaust

An examination of responses to key issues raised by the Holocaust as reflected in postwar culture both in Canada and abroad. (Also offered as Languages, Literatures and Cultures 06-235)

24-378. Theatre for Social Action

A study of the theory, practice, and development of popular, community, and collective theatre. Students will examine various approaches to theatre for social action through a combination of academic study and practical exercises in specific popular theatre techniques, including Theatre of the Oppressed and Playback Theatre. (Open only to 3rd and 4th year Drama in Education and Community students or by consent of Instructor.) (May be repeated for credit twice if assignments or approaches are significantly different.)

24-471. Drama and Community: Applications

A project-based practical course in the principles and techniques of drama and theatre as they relate to community, educational, and healthcare settings. Students will develop and deliver projects based on topics such as: Drama/Theatre and Disabilities, Theatre in Education, Socio-political Theatre, Popular Theatre, and Theatre for Young Audiences. Projects will be driven by the current research interest and involvement of the instructor or the need and interests of community groups. (Open only to 3rd and 4th year Drama in Education and Community students or by consent of instructor.) (May be repeated for credit if assignments or approaches are significantly varied.)

26-128. Women and Literature

An introduction to the ways in which women have been represented and constructed in English literature of various periods.

26-354. Literature and Postcolonialism

A study of the literature of nations and peoples responding to various forms of oppression, including colonization, racism, assimilation, and genocide. Introduces relevant theory and focuses on contemporary English-language texts from Africa, the Caribbean, South Asia, North America, and elsewhere. (Prerequisite: Semester three standing, and two of 26-120; 26-210 or 26-211.)

26-358. Native Literatures and Cultures

A study of literature by First Nations and Aboriginal writers from Canada, the United States, New Zealand, and Australia. (Prerequisite: Semester three standing, and two of 26-120; 26-210 or 26-211.)

27-285. Learning by Living in an International Urban Setting

This course develops the capability to describe and reflect upon the everyday rhythms and challenges of learning in a new culture and urban environment and finding expressive ways to communicate the experiences and challenges of learning to others. As an exploration of living in an Italian city, students will examine films, literature, music, theatre, or other expressive forms that reflect Italian and European urban life. Students will write weekly blogs about their own experiences, perceptions and understanding of Italian culture and living abroad. Using old and new media, they will engage in a regular process of designing, drafting, and redrafting stories and relating interesting experiences from their time in Volterra that may be shared with their classmates, colleagues, family, and friends within an electronic portfolio. As managers of their own e-portfolios, students will develop a learning record designed to exceed the limits of the course. Regular assessment of the e-portfolio and its entries may be carried out by a small team of faculty at Windsor and facilitated by the Windsor faculty resident at Volterra. (Note: This course is available only to students participating in the Volterra, Italy, study abroad arts program. Permission of the Instructor is required.) (Prerequisites: 01-150 and 01-151.) (Also offered as 28-285.)

34-227. Environmental Ethics

What ethical obligations do we have to the non-human environment? The course examines various answers to that question. Topics may include: animal rights, the moral status of non-human life, the intrinsic value of ecosystems, the importance of wilderness, deep ecology, eco-feminism, economic development, environmentalism, and politics.

34-236. Feminist Philosophies

An examination of key philosophical themes in feminism and philosophical debates among feminists. The themes and subjects of debate addressed may include sexism and oppression; feminist identity; the political significance of language, personal appearance, and pornography; feminist ethics; and feminist theories of knowledge. (Prerequisite: 34-110 or 34-112 or semester 3 or above standing, or consent of the instructor.) (Also offered as Women's and Gender Studies 53-236)

34-323. Human Rights and Global Justice

The course will focus on the meaning and nature of human rights and their relationship to global justice. Topics may include: the historical development of human rights doctrines, their relationship to classical citizenship rights, the relationship between universal human rights and culturally distinct life ways, relationship between legal/moral principles, material reality, and different conceptions of global justice, the strengths and limitations of human rights as principles to advance global justice. (Prerequisite: Semester 3 or above standing, or permission of the instructor.)

40-225. Media Literacy

A critical exploration of how the media contribute to the social construction of reality. Students will develop the skills and conceptual frameworks necessary to interpret and investigate the contemporary media environment with a particular focus on examples derived from Canadian informational/news sources and popular culture. Topics may include: media coverage of social and political issues, political economy of media/culture industries, media and democracy, media representation and stereotypes.

40-370. Alternative Media and Digital Activism

This course examines existing theory and scholarship on alternative media and media activism and explores the ways in which activists and citizen group's use/have used "old" as well as new media and emerging technologies to challenge mainstream media narratives and express alternative views on a range of social and political issues. Special emphasis will be placed on the Canadian context. Topics may include: mainstream versus alternative media framing; historical roots of Canadian alternative media; media reform movements; participatory journalism; culture jamming; the tactics, strategies, aesthetics and goals of alternative/activist media. (Prerequisite: One of 40-201, 40-225, 40-270, 24-270 (Dramatic Art) or 54-270 (Labour Studies).)

43-251. History of Women's Movements in North America

An exploration of the collective action of women in the past and present in North America. Areas of study may include women's involvement with the temperance, civil rights, suffrage, trade union, environmental, reproductive rights, and women's liberation movements. (Also offered as Women's and Gender Studies 53-200.) (3 lecture hours or 2 lecture hours, 1 tutorial hour a week.)

43-349. Canadian Labour History

The development of the Canadian labour movement and the working-class experience from the nineteenth century to the present. (Also offered as Labour Studies 54-349.) (Prerequisites: semester 4 standing. Labour Studies majors must have Semester 4 or above standing or consent of instructor.)

45-211. Women and Politics

An introduction to the principal themes in the study of women in Canadian politics. Topics may include: feminist theory, women in Canadian political institutions, the status of women in the Canadian economy, and gender equality rights in the Charter. (Also offered as Women's and Gender Studies 53-211).

45-241. Contemporary African Politics

Characteristic domestic and international problems of African states south of the Sahara, including resource scarcity, ethnic diversity, political stability, and relations with the Great Powers.

46-240. Psychology of Sex and Gender

Review of philosophical, historical, theoretical, and research literature in the psychology of sex and gender. Topics include male/female stereotypes; similarities/differences based on research data; and current social issues.

46-334. Applied Social Psychology

The application of social psychology to solving social issues. Topics include improving job satisfaction and organizational life, promoting community health, meeting social welfare needs, dealing with environmental problems, improving educational systems, and addressing the issues of social justice and equality. The course may involve a fieldwork component. (Prerequisite: 46-236.)

46-440. Seminar in the Psychology of Women

An examination of the feminist critique of mainstream psychology research of the last century, of feminist approaches to research and theorizing, and applications of feminist psychology to the study of a number of topics in the psychology of women (*e.g.*, mental health, violence against women, sexuality). (Prerequisite: 46-240 or consent of instructor.)

46-445. Stereotyping, Prejudice, and Discrimination

Psychological theory and research on stereotyping, prejudice, and discrimination; their formation and function; the role of individual and sociocultural factors in their development and maintenance; individual responses and psychological interventions. (Prerequisite: 46-236.)

47-117. Meeting Human Needs through Social Welfare

This course examines the historical, philosophical and political aspects of the development and delivery of the Canadian Social Welfare System. Special attention will be focussed on ways to identify and assess the needs of, and services to, vulnerable populations within the context of social and cultural diversity.

47-210. Social Work and Diversity

This course examines oppression and anti-oppressive social work practice from a broad ecological framework as they relate to social inequality and life circumstances. Various forms of oppression such as racism, ableism, anti-semitism, heterosexism, and sexism are analyzed at the individual, cultural, and institutional level while applying the professional values and ethics of social work practice. The experiences, needs, and responses of populations that have been historically excluded, marginalized, and disadvantaged are examined. Students develop analytical and self-reflective skills as they relate to social work practice which fosters inclusion, participation, advocacy, and social justice. (Prerequisites: 47-117 and 47-118 or permission of instructor.)

48-375. Social Justice and Global Change

An examination of issues of social justice arising from the intensification of social and economic inequalities within an increasingly globalized world. Topics may include the emerging international human rights framework, national and transnational struggles to bring about social change, and post-colonialism. (Prerequisites: 48-227 or 38-101 and semester 5 or higher standing).

53-260. Women and Globalization

This course introduces students to gender-sensitive analysis of the role of women in the global economy. Course materials cover the place of women in the international division of labour, the role of women in export-oriented industries in the "Third World," and women as "homeworkers" in the First and Third World. Students will utilize relevant empirical material to develop critical thinking and an understanding of gender inequalities in the "development process." (Prerequisites: at least Semester 3 standing.)(Also offered as Labour Studies 54-260.)

53-320. Women, Power, and Environments

This course focuses on environmental issues as they affect women across cultures. It provides a feminist critical analysis of the power relations in modern societies that cause environmental degradation and examines the theories, policies, and institutions that contribute to unsustainable practices. Emphasis is placed on the women-nature debate within various environmental social movements and the historical role women have played as activists. (Also offered as Sociology 48-353.) (Prerequisite: Semester 3 or above standing and one course at the 200-level or above from Women's and Gender Studies or Sociology.)

53-410. Women in Protest

This course examines women at the forefront of protest in historical and contemporary contexts. It analyzes gendered constructs of protest and social and political change. Students will study the role of women in protest movements such as suffrage, reproductive rights, anti-racism, labour rights, environmental justice, anti-globalization, and nationalist and religious movements. Case studies are explored in detail, with particular emphasis on primary-source material from women activists themselves. These studies are complemented by an examination of feminist, social movement, and protest theories. (Prerequisite: 53-200 or 43-251 and one 300-level Women's and Gender Studies course or consent of the instructor.)

54-100. Labour and Social Movements in Canadian Society

An interdisciplinary introduction to the study of labour and social movements, focussing on their efforts to address the needs of workers, women, gays and lesbians, social and ethnic minorities, students, and the poor.

54-200. Labour Law and Workers' Rights

This course examines the everyday application of employment law and human rights legislation to workplace issues. Students investigate the rights and responsibilities of workers and employers in unionized and non-unionized environments.

95-405. Gender Issues in Sport

A comprehensive overview of the status of women in sport with a view towards understanding the influence of gender upon women and men as consumers of sport in North American culture.

Total courses: 6

- a) 48-110;
- b) five additional Sociology courses (02-48-***) at the 200-level or above.

48-110. Foundations of Social Life

This course will introduce students to the key concepts, theories, and methods appropriate to Sociology, Anthropology, and Criminology. Focus will be on application of issues important to studying social life using multiple perspectives while exercising the sociological imagination. Topics may include discussion of culture, gender, social stratification, race and ethnicity, family, and crime and deviance. (Open only to Program Majors and Minors in the Department of Sociology, Anthropology, and Criminology). (48-110 is a prerequisite for all 200 level courses and above in the Department). (Students who complete 48-110 may not subsequently enroll in 48-100 for credit). (Credit may not be obtained for both 48-110 and 48-101/48-102.)

[All Sociology courses at UWindsor \(link\).](#)

Students must maintain an average of 60% or better in the courses applied to the Minor.

Total courses: 6

- a) 62-120 or 62-125 or 62-126;
- b) 62-139 or 62-140;
- c) three of: 65-250, 65-251, 65-3**, or 65-4**.

62-120. Linear Algebra I

This course will cover linear systems, matrix algebra, determinants, n-dimensional vectors, dot product, cross product, orthogonalization, eigenvalues, eigenvectors, diagonalization and vector spaces. (Prerequisites: Both Ontario Grade 12 Advanced Functions (MHF4U) and Calculus and Vectors (MCV4U) or 62-102.) (Antirequisites: 62-125, 62-126.) (3 lecture hours, 2 tutorial hours per week.)

62-125. Vectors and Linear Algebra

This course is for students without Ontario Grade 12 Calculus and Vectors (MCV4U). The course 62-120 is for students with MCV4U. This course will cover vectors, three-dimensional geometry, linear systems, matrix algebra, determinants, n-dimensional vectors, dot product, cross product, orthogonalization, eigenvalues, eigenvectors, diagonalization and vector spaces. (Prerequisite: Ontario Grade 12 Advanced Functions (MHF4U).) (Antirequisites: 62-120, 62-126.) (4 lecture hours, 2 tutorial hours per week.)

62-126. Linear Algebra (Engineering)

Linear systems, matrix algebra, determinants, vectors in R_n , dot product, orthogonalization, and eigenvalues. (Prerequisite: 62-102 or Grade 12 Advanced Functions and Grade 12 Calculus and Vectors, or equivalent.) (Antirequisite: 62-120, or 62-125.) (3 lecture hours, 1 tutorial hour a week.)

62-139. Functions and Differential Calculus

This course will cover a review of functions, trigonometric functions and identities, transcendental functions, inverse trigonometric functions, introduction to limits, continuity, derivatives and applications, mean value theorem, indeterminate forms and l'Hôpital's rule, antiderivatives and an introduction to definite integrals. This course is for students who have taken Ontario Grade 12 Advanced Functions (MHF4U), but have not taken Ontario Grade 12 Calculus and Vectors (MCV4U). Students who have credit for MCV4U should take 62-140. The course is equivalent to 62-140 for all prerequisite purposes. (Prerequisite: Ontario Grade 12 Advanced Functions (MHF4U).) (Antirequisite: 62-140.) (4 lecture hours, 2 tutorial hours per week.)

62-140. Differential Calculus

This course will cover trigonometric functions and identities, inverse trigonometric functions, limits and continuity, derivatives and applications, mean value theorem, indeterminate forms and l'Hôpital's rule, antiderivatives and an introduction to definite integrals. This course is for students who have taken both Ontario Grade 12 Advanced Functions (MHF4U) and Ontario Grade 12 Calculus and Vectors (MCV4U). Students who do not have credit for MCV4U should take 62-139. (Prerequisites: Ontario Grade 12 Advanced Functions (MHF4U) and Ontario Grade 12 Calculus and Vectors (MCV4U) or 62-101.) (Antirequisite: 62-139.) (3 lecture hours, 2 tutorial hours per week.)

65-250. Introduction to Probability

This course will cover descriptive measures, combinatorics, probability, random variables, special discrete and continuous distributions, sampling distribution, and point and interval estimation. (Prerequisite: 62-141.) (3 lecture hours, 1 tutorial hour per week.)

65-251. Introduction to Statistics

This course will cover distributions, point and interval estimation, hypothesis testing, contingency tables, analysis of variance, bivariate distributions, regression, correlation and non-parametric methods. (Prerequisite: 65-250.) (3 lecture hours, 1 tutorial hour per week.)

65-350. Probability

The course will cover the axioms of the theory of probability, discrete and continuous distributions including binomial, Poisson, exponential, normal chi-square, gamma, t, and F distributions, multivariate distributions, conditional distributions, independence, expectation, moment generating functions, characteristic functions, transformation of random variables, order statistics, law of large numbers and central limit theorem. (Prerequisite: 65-251.) (3 lecture hours per week.)

65-351. Statistics

This course will cover point and interval estimations, properties of estimators, methods of estimation, least squares estimation and linear models, Bayesian estimation, Rao-Blackwell theorem, tests of hypotheses, Neyman-Pearson Lemma and analysis of variance. (Prerequisite: 65-350.) (3 lecture hours per week.)

65-376. Stochastic Operations Research

This course will cover deterministic dynamic programming, stochastic dynamic programming, queuing theory, Brownian motion, decision analysis and simulation. Optional topics are inventory theory and Markov processes. (Prerequisites: 65-250, 62-120 or 62-125, 62-141.) (Antirequisite: 91-412.) (3 lecture hours per week.)

65-452. Experimental Designs

This course will cover ANOVA models without and with interactions, randomized block, Latin square, factorial, confounded factorial, balanced incomplete block, other designs and response surface methodology. (Prerequisite: 65-251 or 65-350.) (3 lecture hours per week.)

65-454. Sampling Theory

This course will cover basic concepts, simple random and stratified sampling, ratio and regression methods, systematic and cluster sampling, multi-stage sampling, PPS sampling, and errors in surveys and sampling methods in social investigation. (Prerequisite: 65-251 or 65-350.) (3 lecture hours per week.)

65-455. Topics in Statistics

This course will cover advanced topics in probability or statistics not covered in other courses. (Prerequisite: consent of instructor.) (3 lecture hours per week.) (May be repeated for credit when the topic is different.)

Total courses: 6

- a) 48-205;
- b) 53-220;
- c) 46-240;
- d) 48-351;
- e) 48-450;
- f) 43-463 or 53-463.

48-205. Sociology of Sexualities

An analysis of sexual differentiation, sex role acquisition, sexual attitudes, sexual behaviour, and the sex structure of Canadian society. (Prerequisites: third semester standing.)

53-220. Women's Bodies, Women's Health

This course examines and critiques commonly cited biological evidence in support of sex differences and male superiority, including research on anatomy, genetics, hormones, and differential brain functioning. Students explore the social, cultural, and political meanings of the female body and consider how these understandings influence medical and non-medical definitions of "health" for women. Students investigate how sexism, classism, racism, ageism, and homophobia shape how individuals think about and value different female bodies. (Prerequisite: 53-100) (Can be taken for either Science or Social Science credit.)

46-240. Psychology of Sex and Gender

Review of philosophical, historical, theoretical, and research literature in the psychology of sex and gender. Topics include male/female stereotypes; similarities/differences based on research data; and current social issues.

48-351. Gay and Lesbian Studies

A multidisciplinary review of critical issues in the social organization and representation of same-sex bonding, including discussion of: cross-cultural studies, historical constructions of homosexuality and romantic friendship, coming out and identity, relationships and family, theories of homophobia and sexual repression, the development of communities and social movements in modern societies, the impacts of AIDS, and the emergence of queer theory. (Prerequisites: 48-205 and semester 5 or higher standing.)

48-450. Advanced Seminar in Sexualities and Identities

A critical engagement with the historical, contemporary and newly burgeoning sociological approaches to sexualities and sexual identities. The course will adopt a cross-cultural approach in examining and analyzing human sexualities, with emphasis on the intersectionalities of other forms of inequality such as gender, race, ethnicity, disability, and class. Topics may vary from year to year. (Prerequisite: 48-205, 48-391/302 or 48-356 or 48-373; 48-390/310 (or 48-355), 48-308 and semester 7 or higher standing, or consent of instructor.)

53-463. History of Gender and Sexuality

This course explores major themes in the history of gender and sexuality. These may include reproduction, contraception, and abortion; gender, race, and power; sexuality and the state; heterosexual relations and marriage; gay, lesbian, and transgender identities. Time period and geographical region will vary with the instructor.)(Prerequisite: Semester 5 or above standing and one of 43-249, 43-250, or 43-251/53-200 or permission of the instructor.)(Also offered as History 43-463.)

Total courses: 6

- a) 53-100;
- b) one Women's and Gender Studies course (02-53-***) at the 300- or 400-level;
- c) four additional Women's and Gender Studies courses (02-53-***), no more than one other course may be at the 100-level.

53-100. Women in Canadian Society

This course illustrates and account for the position of women in Canadian society. We explore how gender identities are informed by the process of social construction which privileges some women while disadvantaging others.

[All Women's and Gender Studies courses at UWindsor \(link\).](#)

Total courses: 6

- a) 54-100;
- b) 54-200;
- c) 54-204;
- d) four additional Work and Employment Issues courses (02-54-***).

54-100. Labour and Social Movements in Canadian Society

An interdisciplinary introduction to the study of labour and social movements, focussing on their efforts to address the needs of workers, women, gays and lesbians, social and ethnic minorities, students, and the poor.

54-200. Labour Law and Workers' Rights

This course examines the everyday application of employment law and human rights legislation to workplace issues. Students investigate the rights and responsibilities of workers and employers in unionized and non-unionized environments.

54-204. Worker Health and Safety

An interdisciplinary examination of the political, legal, social, and economic aspects of occupational health and safety. This course covers the history of health and safety within industrial, office, and rural contexts in Canada and other parts of the world.

[All Work and Employment Issues courses at UWindsor \(link\).](#)