

Faculty	Department	Course	Course Description	Sustainability Courses (Focused)	Courses that Include Sustainability (Related)	Undergraduate	Graduate
Arts	African Studies	AFST 501: Interdisciplinary Seminar	Study of a particular topic(s) or region(s) from an interdisciplinary and comparative perspective. Students will be required to examine how political, social, economic and cultural factors intersect to shape various issues in the African setting.		R	U	
Arts	Anthropology	ANTH 213: Contemporary Aboriginal Issues in Canada	An exploration of Indigenous relations in Canada, from an anthropological perspective, from first contact to present, including the development of Indian policy, the Indian Act, treaties, residential schools, and Sixties Scoop.		R	U	
Arts	Anthropology	ANTH 303: Business in Cultural Context	Ways in which differences in cultural values and practices affect the form and nature of interaction between business parties, especially those of differing national/cultural/ethnic backgrounds.		R	U	
Arts	Anthropology	ANTH 313: Anthropology of the Environment	Cross-cultural study of human-environment relationships and their application to contemporary problems concerning environmental issues, resource management, and sustainable development.	F		U	
Arts	Anthropology	ANTH 341: Medical Anthropology	A survey of anthropological approaches to disease, illness and the maintenance of health.		R	U	
Arts	Anthropology	ANTH 343: Militarism and Militarization	Comparative global ethnographic survey of militarization processes. Examples will be drawn from contemporary and historical societies, with a particular emphasis on the wide variety of institutions and communities necessary to the production of violence, and on their relationship to the larger society.		R	U	
Arts	Anthropology	ANTH 349: Anthropology of HIV/AIDS	Examines the individual, clinical, epidemiological, cultural, social, psychological, political, economic, and public policy dimensions of HIV/AIDS along with its meaning and importance on a global level from an anthropological perspective.		R	U	
Arts	Anthropology	ANTH 355: An Ethnographic Survey of Native North America	Selected North American Indigenous cultures in terms of the relationships among basic subsistence adaptations, social, ceremonial, and ideological structures.		R	U	
Arts	Anthropology	ANTH 357: Anthropology of Development	Cultural dimensions of local and international development policy, programming, and evaluation.		R	U	
Arts	Anthropology	ANTH 363: Magic, Witchcraft, and Gods: Anthropology of Religion	Cultural dimensions of local and international development policy, programming, and evaluation. Contemporary anthropological theoretical perspectives on topics such as divination, ritual, witchcraft, magic and symbolism in both indigenous and world religions. The relationship of religion to healing, gender and power is also examined.		R	U	
Arts	Anthropology	ANTH 371: Political Anthropology	Comparative analysis of power, authority, dependency relations, and processes of governance, from the perspective of social and cultural anthropology.		R	U	
Arts	Anthropology	ANTH 379: Urban Anthropology	A study of tribalism, ethnicity, sub-cultures, social networks and related phenomena in urban societies. Attention will be paid to planning and applied urban anthropology.		R	U	
Arts	Anthropology	ANTH 385: Economic Anthropology	Comparative analysis of production, distribution and consumption in small-scale and complex societies; theories of exchange; effects of capitalism upon traditional economies and social organization.		R	U	
Arts	Anthropology	ANTH 393: Ethnography of Global-Local Dynamics	Changes in the international division of labour and resulting social, cultural, and political effects.		R	U	
Arts	Anthropology	ANTH 399: Special Topics in Anthropology - Comparative Farming and Sustainable Food Systems	Examination of select problems in Anthropology. Topics may be drawn from all subfields in the discipline.	F		U	
Arts	Anthropology	ANTH 405: Ecology of Tropical Forest Societies	Adaptation of indigenous societies to their tropical forest habitat, and their transformation under the impact of industrial society.		R	U	
Arts	Anthropology	ANTH 421: Contemporary Latin American Society	An examination of selected issues in the anthropological study of contemporary Latin America.		R	U	
Arts	Anthropology	ANTH 427: Women in East Asian Societies	Comparison of women's roles in China, Japan, and Korea, with particular reference to family structure and economic organization.		R	U	
Arts	Anthropology	ANTH 441: Problems in the Anthropology of Health	An examination of selected problems in the anthropology of health. Topics may include models of health in Canada, etiological claims in health research, and anthropology of pharmaceuticals.		R	U	

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Arts	Anthropology	ANTH 479: Housing and Society	Examines interactions between housing and social organization in cross-cultural context. Emphasizes the varied types of built form, their cultural meanings, implications for social life within households and for society more broadly, and their political and economic consequences. Pays particular attention to contemporary housing problems such as homelessness and urban sprawl.		R	U	
Arts	Anthropology	ANTH 523: Human Ecology	Current directions in various subfields of human ecology as they apply to Anthropology, Archaeology, and Geography.		R	U	
Arts	Anthropology	ANTH 589: Nutritional Anthropology	The study of human dietary practices from biological and cultural perspectives. Subjects covered include the development of nutritional anthropology, principles of nutrition, principles of ecology, diet from an evolutionary, comparative and historic perspective, the impact of undernutrition on human physiology, and behaviour and methods in nutritional anthropology.		R	U	
Arts	Anthropology	ANTH 641: Seminar in Civil-Military Relations	Comparative analysis of relations between civil society and military institutions. A critical approach to analyzing how civil and military institutions mutually constitute each other, rather than taking the military and civilian sectors as a given. Special attention will be paid to twentieth-century militarization as a social process that has dramatically changed the shape of both civilian and military spheres.		R		G
Arts	Archaeology	ARKY 423: Archaeology of the Arctic	Prehistory/history of N. E. Asia, Alaska, Canada and Greenland. Emphasis will be placed on ecological and ethnographical data.		R	U	
Arts	Archaeology	ARKY 439: African Complex Societies	Ancient African complex societies with an emphasis on state development south of the Sahara. Topics include why these states developed, their participation in internal and international systems of exchange, technological developments, belief systems that supported power structures, and the reasons for their collapse. Time period covered is from the rise of the ancient state of Egypt to the colonial period.		R	U	
Arts	Archaeology	ARKY 591: Landscape Archaeology	Human perceptions and uses of the biophysical and cultural environment. The emphasis is on the act of humanizing the environment by naming places, identifying resources, establishing paths, and modifying the natural landscape thereby creating a tradition of land use that can be accessed archaeologically.		R	U	
Arts	Canadian Studies	CNST 361: Gender, Race and Ethnicity in Canada	An interdisciplinary introduction to gender, race and ethnicity in Canada to provide an understanding of race, ethnicity and gender as simultaneous and intersecting systems of relationship and meaning.		R	U	
Arts	Canadian Studies	CNST 591: Senior Seminar in Canadian Studies	Advanced level seminar(s) in Canadian Studies, for examination of particular topics of special interest to senior students.		R	U	
Arts	Classics and Religion	RELS 343: Religion and Social Morality	Critical examination of social theories of religion and religious perspectives on ethical issues of social, economic, and political consequence in contemporary cultures.		R	U	
Arts	Classics and Religion	RELS 397: Religion and Science	The relationship between religion and science with emphasis on contemporary discussions regarding the intersection of religious thought and theories in the natural sciences.		R	U	
Arts	Classics and Religion	RELS 398: Religion and the Environment	Consideration of issues of public environmental concern from the perspectives of religious studies and ethics. Possible topics include climate change, water depletion, environmental pollution, animal stresses, species/ecosystem decimation, and the climate refugee problem.		R	U	
Arts	Communication, Media and Film	COMS 393: Critical Perspectives on Health and Science	Examines the construction and communication of health and science as socio-cultural phenomena and interrogates the ways in which health and science issues are communicated, defined, represented and framed, particularly within contemporary media.		R	U	
Arts	Communication, Media and Film	COMS 477: Food Culture and Communication	A theoretical and experiential introduction to food cultures as processes and products of communication. Examines how food is constructed and represented through text, film, television, art, and tourism. Political and economic constructions of food culture, security, and sustainability will also be explored.		R	U	
Arts	Communication, Media and Film	COMS 623: Social Contexts of Science and Technology	Theoretical perspectives for understanding central debates in the study of science and technology in their social, political, cultural, and communication contexts.		R		G
Arts	Communication, Media and Film	COMS 631: Social and Media Activism	A critical overview of how digital media are being taken up by social justice movements and the implications of these new media practices in relation to politics and activism.		R		G
Arts	Communication, Media and Film	COMS 711.68: Indigenous Media Activism	A research project under the direction of a faculty member.		R		G
Arts	Communication, Media and Film	CMCL 617: Heritage and Identity - Issues and Approaches	An investigation of various issues related to representation and identity, including but not limited to race, ethnicity, gender and sexuality.		R		G
Arts	Communication, Media and Film	STAS 325: Technology Within Contemporary Society	Examines the definition of technology and major questions concerning the relations between technology and society .		R	U	
Arts	Communication, Media and Film	STAS 327: Science in Society	A case study analysis of the practice of science as a human activity. The theories linking the emergence of modern science to western culture are considered. An analysis of ideas of the social structure of scientific activity including: the role of examples in forming scientific theories, the value system of scientists in both basic research and applied research environments, "individual genius" vs multiple discovery, and the influence of "leading" figures. The linkages of scientific activity with other cultural dimensions are explored and the bases for formulation of "science policy" are considered.		R	U	
Arts	Development Studies	DEST 201: Introduction to Development Studies	An interdisciplinary course focusing on development in both a northern and international context. Explores factors that shape development processes; introduces concepts and issues such as poverty; colonialism and self-determination; human ecology and sustainable development; and appropriate technology. Examines the origins, purposes, and performance of contemporary national and international institutions and their effect on people in different geographical and socio-economic contexts.	F		U	

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Arts	Development Studies	DEST 375: Gender and Development	Examines development from the critical perspective of the key role played by gender in development. Case studies from Canadian and international contexts will provide illustrative material for analyzing the issues that emanate from the gendered nature of development processes and practices.		R	U	
Arts	Development Studies	DEST 393: Theories and Applications of Development	A study of development theories and applications through northern and international case studies. Examines practical manifestations of those theories and approaches in development planning, implementation, and praxis including Modernization theory; dependency theory; basic needs approach; neo-liberalism; the staple thesis; globalization; women in development; gender and development.		R	U	
Arts	Development Studies	DEST 400: Field School	A field course for the on-site interdisciplinary study of a country or region with regard to issues of development from variety of perspectives, e.g., cultural, economic, environmental, geographical, historical and political perspectives.		R	U	
Arts	Development	DEST 401.3: Politics and Economics of Development	An examination of selected topics in Development Studies.	F		U	
Arts	Development Studies	DEST 403: Sustainability and Human Ecology in the Circumpolar Arctic	The history of northern development and resource management in Canada with emphasis on specific case studies involving sustainability and human ecology in the Circumpolar Arctic. The role of traditional environmental knowledge and its significance to northern development will be examined. Participatory research methodologies may be introduced.	F		U	
Arts	Development Studies	DEST 405: Environment and Development	Critical engagement with sustainability through study of the intersections between environment and development, such as planning and development, management, and implementation, the political economy of environment, and political ecology. Topics may include political and economic systems, resource depletion, industrial agriculture, biodiversity, gender, hazards, traditional knowledge, and resistance.	F		U	
Arts	Development Studies	DEST 485: International and Intercultural Communication	Examines cross-cultural communication at the personal, organizational, societal, and international levels. Discusses the concept of "Globalization" and its implications for communication among different cultures; analyses various theoretical perspectives underlying intercultural communication; explores issues of power, identity and influence; examines intercultural encounters in the context of specific diversified settings; and helps students develop intercultural communication competence.		R	U	
Arts	Development Studies	DEST 501: Research in Selected Topics	Supervised individual study of a special topic.		R	U	
Arts	Development	DEST 501.1: Theories of Development Policy	Supervised individual study of a special topic.		R	U	
Arts	Development Studies	DEST 591: Critical Perspectives on Development Practice and Research	An interdisciplinary consideration of selected issues and methodologies in development, providing the critical perspective and skills needed to conceptualize, design, implement and effectively manage community development projects and programs.		R	U	
Arts	Development Studies	DEST 593: Honour Seminar in Development Studies	Current theoretical and methodological issues will be explored in a discussion-based seminar format, with the aim of development of a research project.		R	U	
Arts	Economics	ECON 209: Engineering Economics	The basic tools and methodology of engineering economic studies. Topics include investment decisions, theory of replacement, economies of scale, externalities, social decision making and government regulation. Examples are drawn from engineering projects.		R	U	
Arts	Economics	ECON 321: The Global Trading System	Introduction to the theory of international trade; provides a basis for examining Canadian trade policy, and regional and world trade institutions such as the WTO and NAFTA. Topics include: tariffs, non-tariff barriers and enhancements, countervail and anti-dumping action, multinational enterprises and international joint ventures.		R	U	
Arts	Economics	ECON 337: Development Economics	An introduction to developing economies: the meaning, significance and purpose of economic development, major theories of economic development, economic problems of developing countries.		R	U	
Arts	Economics	ECON 349: The Economics of Social Problems	Contribution that economic analysis can make to the understanding of selected current social issues such as poverty, aging, crime, drug abuse and discrimination.		R	U	
Arts	Economics	ECON 367: Agricultural Economics	Introduction to the major economic forces affecting the agri-food sector, including technological change, price variability, environmental sustainability and international competition. Issues include government support mechanisms, international trade restrictions, industrialization of agriculture, economics of food safety and security, sustainable resource use and environmental conflict.		R	U	
Arts	Economics	ECON 377: Economics and the Environment	An introduction to the analysis of environmental problems from an economic perspective. Issues such as air and water quality, biodiversity and endangered species will be addressed from local as well as global views.	F		U	
Arts	Economics	ECON 379: The Economics of Health	Theories and evidence regarding demand for health and health care, consumer and physician behaviour, asymmetric information in health care markets, and economic evaluation of health care programs.		R	U	
Arts	Economics	ECON 427: Energy Economics and Policy	Microeconomic analysis of the allocation of energy resources with a focus on policy issues including the environment, OPEC, national security, price and entry regulation, market design, and the potential for new energy sources.		R	U	
Arts	Economics	ECON 473: Water Resource Economics and Policy	Selected economic issues in water resource use in Canada and other countries, including policies toward, and management of, water allocation, water quality, and the value of water for ecosystem services.		R	U	
Arts	Economics	ECON 475: Economics of Natural Resources	Application of economic theory to the problems of natural resource pricing, allocation and conservation. Rent theory, location theory, intertemporal maximization. Natural resource policy formulation. Contemporary Canadian resource problems.		R	U	
Arts	Economics	ECON 487: Environmental Economics	Applies microeconomic theory to the examination of market failures as the source of environmental problems, and to designing and evaluating environmental policies to correct them.		R	U	
Arts	Economics	ECON 527: World Oil Economics	Analysis of the world oil industry in the post-war period.		R	U	

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Arts	Economics	ECON 619: Empirical International Trade	Examines issues from the economic literature on international trade. Focuses on quantitative and empirical analysis. Specific topics include the factor content of trade, firm level and multinational behaviour, empirical testing of political economy determinants of protection, and assessing the environmental impact of trade agreements.		R		G
Arts	Economics	ECON 621: International Trade	Focuses on the microeconomic aspects of international economics with emphasis on general equilibrium models commonly employed in international economics. Specific topics covered include theories of international specialization and exchange, trade policy and economic welfare, international factor movement, trade and growth, under both perfect competition and imperfect competition, and selected problems of trade policy in the international trading system.		R		G
Arts	Economics	ECON 675: Natural Resource Economics	Examines economic models of the structure and nature of natural resource industries and their interaction with the rest of the economy. Includes non-renewable and renewable resources and applies methods from capital theory, growth theory, public economics, and industrial organization to the study of natural resources.		R		G
Arts	Economics	ECON 677: Environmental Economics	Environmental economics describes the ways in which people interact with their natural environment and the policies that best achieve society's goals in this context. Topics vary from year-to-year and may include benefit-cost analysis, non-market valuation, choice of policy instruments, environmental taxation, trade growth and the environment, global warming and international environmental treaties.	F			G
Arts	Economics	ECON 679: Health Economics	An overview of topics in health economics. An introduction to economic principles and techniques used in analyzing and planning health policy, in particular the delivery of health services, and for understanding the health behaviour of individuals.		R		G
Arts	Economics	ECON 723: Trade, Growth and the Environment I	Covers relevant theoretical work on the environmental consequences of trade liberalization and economic growth, and the relationship between resource use and globalization, focusing on newly published research. Participants are expected to present and discuss research. The specific choice of topics will be made based on research interests of the class.		R		G
Arts	Economics	ECON 725: Trade, Growth and the Environment II	Covers relevant empirical work on the environmental consequences of trade liberalization and economic growth, and the relationship between resource use and globalization, focusing on newly published research. Participants are expected to present and discuss research. The specific choice of topics will be made based on research interests of the class.		R		G
Arts	English	ENGL 302: Introduction to Contemporary Theory	An examination of the claims and assumptions of a range of contemporary critical practices, such as formalism, structuralism, deconstruction, feminism and gender studies, new historicism, psychoanalytic criticism, and cultural and ideological critique. Includes sustained engagement with original theoretical texts.		R	U	
Arts	English	ENGL 309: Literature and the Environment	An examination of the field of nature writing, environmental literature and ecological literary criticism.		R	U	
Arts	English	ENGL 323.2: Topics in Literature in the Environment: Energy	In this course we will examine representations of different forms of energy in literature. What is energy? How are the processes of its production, sale, distribution, and consumption represented in literature, photographs and film? How does energy affect our		R	U	
Arts	English	ENGL 361: Gender and Sexuality in Literature	Reading and analysis of gender and sexuality in literature. Topics may include queer theory; feminism and women's writing; masculinity; transgender fictions and theory; gender and sexuality across regions, cultures, and/or historical periods; intersectionality with, for instance, critical race theory, disability studies, and/or indigeneity.		R	U	
Arts	English	ENGL 376: Indigenous Literatures	An overview of writing by North American Indigenous Peoples with a focus on authors from Canada.		R	U	
Arts	English	ENGL 378: Global Literatures	A comparative overview of literature from a range of regions around the world. May include an examination of post-colonial, diasporic, and globalization theories.		R	U	
Arts	English	ENGL 383.7: Introduction to Ecocriticism and Nature Writing	The course explores the evolving and often contradictory ways North Americans have come to understand and debate, and abuse and bond with the natural realm. The course takes an inter-disciplinary approach relevant to students studying English literature, biology, history, anthropology, and cultural studies. Overall aims of the course are to enlarge your critical awareness of various historic and current cultural views of nature, become aware of pivotal changes in our relationships with nature, and to sharpen your personal observational and interpretive skills in regard to the natural world.		R	U	
Arts	English	ENGL 384: Topic in Women's Literature	This course examines works by writers who have imaginatively reconstructed war from a temporal distance. These new works, which often revise or reshape traditional war narratives, may uncover secrets or unearth scandals hidden in the past, or reveal the kinds of power relations which have formed the complex histories of colonization in each country.		R	U	
Arts	English	ENGL 385.2: Aboriginal Literature and Film in Canada: Adap	In this course we will be looking at the notion of adaptation; in particular, the adaptation of aboriginal writing into video, film, television, and other media produced in Canada. We will examine issues of representation, translation from one genre to another, the role of actors, producers, scriptwriters, designers and directors in media adaptations of written work, and the role of writers and storytellers in the visualization and creation of written and oral texts, as we also engage in the adaptation of writing into other media ourselves		R	U	

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Arts	English	ENGL 387.99: Encountering Cultural Others	This course introduces students to various geographical, cultural, and racial/ethnic Others with a view to opening up new perspectives on the stereotypically known. To open a new perspective on things and people through reading literature is to make what Slavoj Žižek calls "a parallax shift" which in his definition is "not so much a shift in the object as a shift in our attitude toward the viewed object." Students will be exploring how different cultures map the phenomenal world differently and how the universal is articulated in culture-specific ways. As well, they will be exploring why and how one major social function of literature is to create a shift in our attitude toward cultural Others.		R	U	
Arts	English	ENGL 391: Topic in Postcolonial Literature and Theory	Waves of immigration from the end of World War Two to the present have transformed Britain into a multicultural nation. This course will study some of the writers whose works represent postcolonial Britain. It also examines current questions and issues in postcolonial studies.		R	U	
Arts	English	ENGL 486: Advanced Studies in Literature and the Environment	Selected topics in nature writing, environmental literature, ecocriticism and eco-theory. Topics may include climate change; bioregionalism; animals and animality; indigenous environmental perspectives; risk, disaster, and crises; pollution and waste; the body toxic; and dystopias.	F		U	
Arts	English	ENGL 515: Advanced Seminar in Global / Indigenous Contexts	Advanced study of a particular topic in post-colonial, transnational, diasporic, and/or indigenous literary studies, with an emphasis on theoretical context. Students will learn to develop research questions and conduct original research.		R	U	
Arts	Geography	GEOG 205: Gateway to Geography	An overview of human and physical environments, their inter-relationships and their relevance to environmental issues and world affairs. Major topics are drawn from current global issues where location matters. Specific examples are discussed in a global context and vary by term.	F		U	
Arts	Geography	GEOG 211: The Physical Environment	Introduction to the physical elements of the environment such as weather, climate, hydrology, landforms, soils, vegetation, and the processes producing variations of these elements on the surface of the earth. The social implications of environmental change, disasters, and hazards are emphasized.		R	U	
Arts	Geography	GEOG 213: Geography of World Affairs	Focuses on the major culture regions of the world and also individual countries. Emphasis on the characteristics, distribution, inter-relationships and comparisons of the major culture and physical phenomena of these areas, i.e. population, political situation, economy, language, religion and environment. Some historical developments in each of the areas are presented for perspective, but the major emphasis is on the background for understanding contemporary world affairs.		R	U	
Arts	Geography	GEOG 251: The Human Environment	The study of people, their origins, culture, technology, economy and impact on the environment. The manner in which people attempt to impose order upon the surface of the earth. Concepts of relative location are introduced with particular regard to both the external orientation and the internal organization of urban areas.	F		U	
Arts	Geography	GEOG 253: Introduction to Cities	A broad introductory survey, from diverse perspectives, of the processes that shape cities and urban life.		R	U	
Arts	Geography	GEOG 311: Natural Events and Human Disasters	Explores how various Earth processes create hazards for humans in different regions. Topics may include earthquakes, volcanic eruptions, tsunamis, floods, landslides, hurricanes, drought, famine and disease. Lectures will focus on: the causes of dangerous natural events, how the physical geography of a region affects its vulnerability, historic human impacts, and how people in different regions perceive and mitigate risk from these events.	F		U	
Arts	Geography	GEOG 313: Soils and Vegetation	Soil: physical, chemical and biological properties, and the environmental and spatial relationships of vegetation patterns.		R	U	
Arts	Geography	GEOG 315: Global Water Resources	Distributions of fresh water in space and time at regional and global scales. Emphasis on inter-relationships of water, humans and natural ecosystems and impacts on water quality and quantity. Introductory-level exploration of twenty-first century challenges linked to the development of fresh water resources in the global environment.		R	U	
Arts	Geography	GEOG 317: Animal Geography	Explores the socio-spatial relationships between humans and animals, with the goal of elucidating the ecological, economic, political, social, and cultural pressures shaping these relations, and the conflicts arising from human-animal interactions. Inter-species bonds and emotional lives of animals are also covered.		R	U	
Arts	Geography	GEOG 321: Geography and Our Environment	Environmental and resource issues, with emphasis on topics such as sustainability, ethics; planning; policy and decision making; and management strategies. Case examples highlight issues in resource sectors such as freshwater, oceans, parks and wildlife, tourism and recreation, forests and energy.	F		U	
Arts	Geography	GEOG 340: Qualitative Methods in Human-Environmental Research	Introduction to qualitative research methods and research design in human geography and environmental geography.		R	U	
Arts	Geography	GEOG 341: Introduction to Economic Geography	Theories, concepts and techniques of economic geography with emphasis on policy issues relating to Canadian examples at the urban, regional, and national levels.		R	U	
Arts	Geography	GEOG 351: Urban Social Geography	Concepts of urban geography with particular reference to intra-urban social issues.		R	U	
Arts	Geography	GEOG 365: Political Geography	Spatial study of political systems, structures and processes, and their relationship to geographic factors.		R	U	
Arts	Geography	GEOG 367: Population Geography	Spatial distribution of population, including density composition and characteristics; patterns of migration and settlement in selected areas.		R	U	
Arts	Geography	GEOG 397: Regional Geography of Selected World Areas	Selected regional geographies. A survey of the physical, cultural and historical geography of a world region.		R	U	
Arts	Geography	GEOG 403: Oceanography	Oceanic circulation, marine biogeochemistry and atmosphere-ocean interactions as controls of climate. Focus on the role of the marine cryosphere at regional, hemispheric and global scales. Interaction of the oceans with landforms, the hydrologic cycle, climate, and people. Laboratory activities to develop field research and analytical skills applicable to all fields of physical geography.		R	U	
Arts	Geography	GEOG 407: Wind Science	Physical laws governing wind processes in the upper atmosphere and the planetary boundary layer. Topics include: global wind patterns, boundary layer wind flow, pollution, wind energy, wind erosion, and wind storms.		R	U	

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Arts	Geography	GEOG 411: Fluvial Geomorphology	Contemporary theory in fluvial geomorphology. Topics include channel flow, sediment transport, stream morphology, channel pattern, channel networks, sedimentation and channel response to human and natural environmental change.		R	U	
Arts	Geography	GEOG 413: Soil Characteristics and Formation	Characteristics of soils and the processes and factors of soil formation. Soil development related to geomorphic materials, geomorphic events, anthropogenic sources, and erosional and depositional landscapes.		R	U	
Arts	Geography	GEOG 415: Hydrology	The physical basis of water utilization and management. Elements of the hydrologic cycle - precipitation, ground water and stream flow. Techniques for estimating water yield and renewal potential in drainage basins.		R	U	
Arts	Geography	GEOG 417: Biogeography and Conservation	A multidisciplinary area of contemporary science that examines the distribution (past and present) of animals and plants, causes of variation in species types, abundance and survival across the globe with an emphasis on human impact on species (e.g. road fragmentation, disease, climate change) and mitigation. The discipline forms a critical link between the earth sciences (geology and geography) and life sciences (biology). Experiential learning is supported through field-based and geospatial labs.		R	U	
Arts	Geography	GEOG 421: Renewable Resources, Natural Environments and Sustainability	Sustainability approaches and praxis in renewable resources and natural environments; case studies and research projects in topics such as urban natural areas, wilderness parks and reserves, freshwater resources and fisheries.	F		U	
Arts	Geography	GEOG 425: Critical Approaches to Development: Theory and Applications	A critical approach to meanings of economic and social development and the theories of development from a spatial perspective. Other areas of study include: population and health dynamics, gender and development, rural development, industrialization, formal and informal economies, foreign aid, trade and debt, community development. Case studies from Latin America, Asia and Africa.		R	U	
Arts	Geography	GEOG 429: Tourism, Recreation, and Environmental Management	Issues in tourism, recreation and environmental management in urban and rural settings; sustainable tourism; cultural and heritage tourism; adventure and eco-tourism; parks and green spaces. Uses case studies and original research opportunities.	F		U	
Arts	Geography	GEOG 451: Urban Systems Development	A critical review of the geographical principles of urban growth and uneven development in the context of local, regional and global urban systems. Topics may include urbanization processes under capitalism, city-regions, global city networks, returns to urban agglomeration, inter-spatial competition, and transnational movements of capital and labour.		R	U	
Arts	Geography	GEOG 457: Urban and Environmental GIS	The role of Geographic Information Systems in environmental research and management is explored both theoretically and practically. Topics will relate to major issues within the urban and environmental fields. Advanced analytical approaches will be critically examined within lecture and laboratories.		R	U	
Arts	Geography	GEOG 463: Cities, Poverty and Development	Analysis of the explosive growth and geographical character of Third World cities. Topics normally include: rural-urban migration, development theory and urbanization, housing, formal/informal labour market, service and food provision, social and political conflict. Case studies from Latin America, Asia and Africa.	F		U	
Arts	Geography	GEOG 465: Science, Nature and Politics	Examines competing claims about knowledge, authority and expertise that occur in environmental and other science-based controversies. Introduces core concepts and debates surrounding risk, uncertainty, and democratic engagement in techno-scientific contexts, with a focus on the shifting role of citizens and, more generally, publics, in geography, environmental decision-making and urban planning. Science, Technology and Society (STS) frameworks will evaluate how avenues for public engagement are understood and constructed in relation to fundamental societal issues.		R	U	
Arts	Geography	GEOG 503: Climate Change	Overview of global climate dynamics and the interactions between ocean, atmosphere, biosphere, cryosphere, and biogeochemical cycles. Examination of climate change in Earth's past, present, and future, scrutinizing both natural and anthropogenic influences on the global climate system.	F		U	
Arts	Geography	GEOG 516: Ecohydrology	Linkages between physical, chemical and biological processes influencing hydrology in headwater catchments. Application of process-based knowledge to problems of water quality management and ecosystem reclamation.	F		U	
Arts	Geography	GEOG 517: Conservation GIS	Applies advanced geospatial analysis techniques to predictive modelling with a specific focus on conservation. Wildlife species, habitat selection, and consequences of human alteration of landscapes are the entry point to understanding and evaluating the geospatial approaches used, and the techniques may be extended to any spatial phenomena. Students will learn to apply a variety of statistics (e.g. chi-square, logistic regression) and to critically evaluate their analytical approaches within a context of environmental conservation.		R	U	
Arts	Geography	GEOG 519: Landscape Ecology	Concepts and methods for examining the spatial pattern of natural and managed landscapes and their effects on ecological processes. Applications in land management and biological conservation will also be considered.		R	U	
Arts	Geography	GEOG 521: The Urban Environment	Urban environments and their construction as a reflection of human needs and non-human constituents, systems of production and distribution, urban policy, infrastructure, and design are considered from the perspectives of both physical and human geography. Critical examination of anthropocentric notions of duality, space, place, and 'the other' frame the examination of human management practices and non-human nature. Topics may include the explosion of monocultures and exotic species, heightened human-wildlife conflict, altered hydrological systems, air pollution, changing environments of infectious disease, and toxic waste.		R	U	
Arts	Geography	GEOG 522: Topics in Politics of the Environment	Key issues in environmental policy, focusing on the power and interest mechanisms that determine environmental resource access and sustainable use. Case-specific applications explore the dynamic roles of the global and the local including international development paradigms, indigenous resource rights, common-pool resource management, powerful policy networks, and local communities struggling in between.		R	U	

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Arts	Geography	GEOG 523: Human Ecology	Current directions in various subfields of human ecology as they apply to Anthropology, Archaeology, and Geography.		R	U	
Arts	Geography	GEOG 529: Research and Planning for Tourism and Recreation Resources	Research and techniques in analysis, planning and management of touristic and recreational resources. Usually involves a major case study/field research project.		R	U	
Arts	Geography	GEOG 531: Remote Sensing and Natural Resource Management	Advanced digital image analysis used in natural resource management studies including mapping, monitoring and modelling.		R	U	
Arts	Geography	GEOG 537: GIS and Natural Resource Management	Techniques of natural resource analysis and modelling using multiple digital data types within a GIS framework; fundamental operations, issues and applications.		R	U	
Arts	Geography	GEOG 553: Globalization and the City	Introduction to the social, cultural, political and economic forces operating on a global scale that increasingly shape the dynamics of cities. Emphasis is placed on social and cultural hybridity, translocal interaction, geographies of social and economic polarization, and the scalar politics and regulation of globalization.	F		U	
Arts	Geography	GEOG 565: Urban Political Geography	An examination of how urban spatial relations shape, and are shaped by, political institutions, organizations, and social movements. Themes may include the politics of urban growth, urban environmental justice, urban sustainability, place-based politics, and multi-scalar politics.		R	U	
Arts	Geography	GEOG 575: The Geography of HIV/AIDS	This course will explore the global geography of HIV/AIDS with a concentration on the African and Asian pandemics. Topics will include: epidemiology and epidemic roots, social and economic impacts, orphans and vulnerable children, food security and migration, gendered impacts, anti-retroviral therapy (ART) programs and global responses.		R	U	
Arts	Geography	GEOG 597: Selected Topics in Human Geography	An examination of selected topics in Human Geography in a seminar format.		R	U	
Arts	Geography	GEOG 619: Spatial Ecology	Applies the principles of landscape ecology and conservation biology to the study of spatial effects on individual species and on the structure, dynamics, diversity and stability of multi-species communities. The use of GIS and remote sensing technologies is a central theme. Topics include habitat fragmentation, metapopulation analysis and viability, wildlife habitat modelling (static and dynamic), management of endangered species, and spatial decision support. Other aspects of this course include the importance and use of indicator, umbrella, keystone and flagship species in conservation.		R		G
Arts	Geography	GEOG 621: The Politics of the Environment	Contemporary issues in environmental conflict, management and governance with case-specific applications from global to local.		R		G
Arts	Geography	GEOG 685: Arctic System Science	This course investigates the process linkages at various spatiotemporal scales between the atmosphere, lithosphere and hydrosphere operating within high latitude environments of the Northern Hemisphere. Of particular interest is the response of the terrestrial and marine cryosphere to climate variability and change, including methods for its detection and quantification.		R		G
Arts	Geography	GEOG 691: Advanced Fluvial Geomorphology	Advanced theory and research issues in fluvial geomorphology. Topics may include flow hydraulics, sediment transport, river morphology, channel networks, sediment routing, drainage basin evolution, and channel response to environmental change.		R		G
Arts	Geography	GEOG 696: Urban, Regional and Global Political Economy Seminar	Spatial and power relations that shape urban, regional and global processes. Investigation of a wide range of processes, ranging in scale from the local to the global: capital investment and disinvestment; state power and policymaking; planning, governance and governmentality; political struggle, all in multiple forms of spatiality: place, scale, territory, networks.		R	U	
Arts	History	HTST 307: The Contemporary World	The contemporary world from the nineteenth century era of industrialism and empire, through to twentieth century struggles of underdeveloped countries for independence. Focus on growing global interdependency and the rise and the erosion of western cultural, economic, and political hegemony.		R	U	
Arts	History	HTST 345: Canadian Native History	Aboriginal Canada, from the beginnings of contact with Europeans in the sixteenth century, to the present, with particular emphasis on Native-Newcomer relations.		R	U	
Arts	History	HTST 354: Cities in Global History	History of the making of urban, landscapes in a global context. Topics may include the development of economic centres, urban technological and infrastructural innovations, and the complex relationships developing between the metropolis and its rural and wild hinterlands.		R	U	
Arts	History	HTST 357: Wild West/Mild West?: Comparative History of the U.S. and Canadian Wests	The similarities and differences in the histories of the Canadian and U.S. Wests from the pre-colonial periods to the present. Topics may include the place of frontier and the West in national historical narratives, myths, and imaginations; aboriginal peoples; immigration and settlement; land policy and land use; and the social relationships and economies that characterize the U.S. and Canadian Wests.		R	U	
Arts	History	HTST 395: History of Energy: From Fire to Fossil Fuels and Beyond	Transnational examination of the sources and uses of energy through history and their social, political, economic, and environmental impacts.	F		U	
Arts	History	HTST 437: Canadian Environmental History	Historical development of Canadian attitudes towards nature, from the First Nations and the first European settlers to the present day.		R	U	
Arts	History	HTST 447: Northern Horizons: Subarctic and Arctic Canadian History (formerly HTST 352)	Historical development of the region from the beginnings of European exploration to the present day. Themes include: the indigenous peoples, Arctic exploration, Canadian sovereignty, and the politics of northern development.		R	U	
Arts	History	HTST 493: Special Topics in History	Selected topics in social, cultural, political, or military history. Previous topics have included the Vietnam War, the North American Petroleum Industry.		R	U	
Arts	History	HTST 493.38: History of Medicine and Health Care I	Selected topics in social, cultural, political, or military history. Previous topics have included the Vietnam War, the North American Petroleum Industry.		R	U	

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Arts	History	HTST 493.39: History of Medicine and Health Care II	Selected topics in social, cultural, political, or military history. Previous topics have included the Vietnam War, the North American Petroleum Industry.		R	U	
Arts	History	HTST 493.36: Gender and Sexuality in the Western World	Selected topics in social, cultural, political, or military history. Previous topics have included the Vietnam War, the North American Petroleum Industry.		R	U	
Arts	History	HTST 528: Exchange, Trade, and Cultural Encounter in North America	The history of cross-cultural contact in North America from the late sixteenth through nineteenth centuries, examining cultures, economies, trading institutions and views of New and Old World people.		R	U	
Arts	History	HTST 529: Topics in Native History	A history of the Aboriginal peoples of Canada: the First Nations, Inuit and Métis.		R	U	
Arts	History	HTST 593: Selected Topics in History	Topics will vary from year-to-year, and will be announced in advance.		R	U	
Arts	History	HTST 593.26: Selected Topics in History - The 1970s Energy	Topics will vary from year-to-year, and will be announced in advance.		R	U	
Arts	History	HTST 675.4: Environmental History: Themes in Power, Imperialism and Military History	An introduction to environmental history with a focus on North America, but with examples drawn from the field in Europe, Central and South America, and other areas of the world. Themes include military, urban and colonial environmental history, the impacts of empires and commodity chains, industrialism and state building. This seminar will especially interrogate the issue of power: how nature and humanity inflect the past. It will take up three interrelated themes of environmental history: colonialism, imperialism and military history.		R		G
Arts	Indigenous Studies	INDG 303: Indigenous Ways of Knowing I	An introduction to various Indigenous peoples ways of knowing (epistemology) with a special emphasis on the contextualization of knowledge-building. Deals with various aspects of building knowledge, such as listening, reflection, protocol, and experience.		R	U	
Arts	Indigenous Studies	INDG 305: Indigenous Ways of Knowing II	An examination of the nature and relations of being (ontology) and specific responsibilities in cultural context. Integration of components of Indigenous ways of knowing. International comparison of Indigenous ways of knowing.		R	U	
Arts	Indigenous Studies	INDG 311: Indigenous Governance	Principles that would establish which legitimate and lasting Aboriginal self-government are examined from both an urban and rural perspective. Examines the mechanisms that are being developed to meet political aspirations of Aboriginal peoples: Métis, Inuit, First Nations. Identifies key governance challenges facing Aboriginal communities.		R	U	
Arts	Indigenous Studies	INDG 317: Ecological Knowledge	Experiential exploration, consideration, and application of Indigenous ecological knowledge, philosophies, and contemporary issues.		R	U	
Arts	Indigenous Studies	INDG 397: Special Topics in Canadian Indigenous Studies	Experiential exploration, consideration, and application of Indigenous ecological knowledge, philosophies, and contemporary issues.		R	U	
Arts	Indigenous Studies	INDG 399: Special Topics in International Indigenous Studies	Selected themes in International Indigenous studies. May focus on Indigenous peoples of only one country.		R	U	
Arts	Indigenous Studies	INDG 407: Comparative International Indigenous Communities	Social, economic, and political comparisons between selected Indigenous communities throughout the world.		R	U	
Arts	Indigenous Studies	INDG 415: Indigenous Ethics and Protocol	Examines principles underlying Indigenous ethics and academic and local research protocols, including indigenous ways of knowing, indigenous methodologies, notions of relationship, spirituality, community, and responsibility in academic research, teaching and learning when collaborating with Indigenous peoples.		R	U	
Arts	Indigenous Studies	INDG 502: Selected Topics in Canadian Indigenous Studies	Investigation of selected topics in Indigenous issues in Canada.		R	U	
Arts	Indigenous Studies	INDG 503: Selected Topics in International Indigenous Studies	In-depth investigation of selected topics in international Indigenous issues.		R	U	
Arts	International Relations	INTR 301: A Multidisciplinary Survey of International Relations	A survey of International Relations integrating the approaches applied in various Social Sciences disciplines.		R	U	
Arts	Latin Studies	LAST 311: Critical Contemporary Issues in Latin American Studies	An analysis of critical issues that provides students with a framework for understanding Latin America today. Examines themes of contemporary importance, which may include human rights, indigenous issues, energy, the environment, democratization, poverty and inequality, social movements, migration, and the region's relationship with the United States.		R	U	
Arts	Law and Society	LWSO 415: Socio-legal Issues in Contemporary Liberal Societies	An examination of the ways in which fundamental premises of legal liberalism, such as fairness, equality, and individual liberty, intersect with each other and with other key social values and premises. May include privacy, the nature of the rights attached to property, the different understandings of democracy operating in different countries, and the extent to which the state should support religion.		R	U	
Arts	Law and Society	LWSO 425: Law and Technology	Examines the relationship between law and legal institutions on the one hand, and science and technology on the other. Through close readings of texts and in-depth class discussion, students will investigate thematic issues such as the role of law in regulating science and technology; challenges to law raised by scientific discoveries and new technologies; and the influence of science and technology on law and legal institutions.		R	U	
Arts	Philosophy	PHIL 275: Scientific and Critical Reasoning	Students will develop their critical thinking skills by learning how to analyze logical reasoning in a variety of contexts, from everyday discourse to scientific reports.		R	U	
Arts	Philosophy	PHIL 313: Bioethics	A critical and analytical examination of ethical and legal problems arising in and about health care. May include euthanasia, abortion, the conditions for the withdrawal of treatment, the physician-patient relationship, research on human subjects, genetic engineering. The practical applications of ethical and legal theory are emphasized.		R	U	
Arts	Philosophy	PHIL 345: Issues in Environmental Ethics	A philosophical examination of how humans conduct themselves in relation to other living species and the natural environment. May include: obligations to future generations; animal liberation theories; population policy; pollution; the value of species diversity and species preservation; biocentric and holistic ethical theories of environment; ethical dimension of environmental policy formation.		R	U	
Arts	Philosophy	PHIL 347: Contemporary Moral Problems	A critical and analytical examination of current moral issues, such as authority, religion in society, suicide, sexual morality, abortion, the legal enforcement of morality, justice.		R	U	

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Arts	Political Science	POLI 279: Politics of the Global South	An introduction to political issues common to the developing regions of Africa, Asia, Latin America and the Middle East, with special emphasis on topics such as democratization, globalization, development, and human rights.		R	U	
Arts	Political Science	POLI 283: Issues and Trends In World Politics	Major trends and issues in world politics, such as international tensions, migration, ethnic conflicts, human rights and sustainable development.		R	U	
Arts	Political Science	POLI 381: Introduction to International Relations	The structures and processes of international relations and foreign policy.		R	U	
Arts	Political Science	POLI 405: Biopolitics	Biological and cultural origins of political behaviour. Topics such as altruism, reciprocity, sex differences, aggression, and emergence of the state.		R	U	
Arts	Political Science	POLI 431: Canadian Political Parties	An examination of political parties and party systems in Canada. Party history is reviewed and attention is given to issues relating to organization, finance, representation and electoral competition.		R	U	
Arts	Political Science	POLI 447: Comparative Public Policy	A study of the institutions and processes of American politics.		R	U	
Arts	Political Science	POLI 453: Women and Politics	An examination of current trends in women's political participation in Canada and around the world. Topics may include: women's political behaviour, women's political representation, and women's movements' engagement with political institutions.		R	U	
Arts	Political Science	POLI 463: Politics of Post-Industrial States	Comparative analysis of the political dynamics of post-industrial states. Focus on problems associated with post-industrialization and on explanations for political stability and change.		R	U	
Arts	Political Science	POLI 470: Genocide	An introduction to comparative genocide studies. Examines the causes, structures, and dynamics of genocide and mass violence.		R	U	
Arts	Political Science	POLI 471: Africa: Contemporary Political Problems	An analysis of political problems in selected political systems of Africa. Topics will include the politics of rural development, political elites and the state in Africa, political institutions, constraints on development, and urban politics.		R	U	
Arts	Political Science	POLI 473: States Regimes Latin America	An analysis of how selected Latin American states and societies are addressing both old and new problems such as the transitions from and legacies of dictatorship, political and criminal violence, as well as the construction of democratic institutions and inclusive citizenship.		R	U	
Arts	Political Science	POLI 479: International Relations of the Contemporary Arab World	An examination of the Arab regional system, with emphasis on regional interaction, regional organizations, and external linkages. The specific cultural, political, ideological, and strategic characteristics of the system will be analyzed.		R	U	
Arts	Political Science	POLI 483: Experiential Learning	The basic concepts, principles, and functions of international law.		R	U	
Arts	Political Science	POLI 485: Global Political Economy	Analysis of the politics of international economic relations. Topics may include the politics of trade and money relations, energy, multinational corporations, and the New International Economic Order.		R	U	
Arts	Political Science	POLI 487: International Organizations	An analysis of international governmental organizations with main emphasis on the United Nations and selected regional organizations.		R	U	
Arts	Political Science	POLI 523: Canada and Circumpolar World	An examination of critical national and international issues in the circumpolar world.		R	U	
Arts	Political Science	POLI 554: Women and Public Policy	An examination of the impact of public policies on gender relations from a comparative perspective. Topics may include family and social policies, gender and the workplace, reproductive rights, and gender-based violence.		R	U	
Arts	Political Science	POLI 571: The Politics of Human Rights	An advanced introduction to the principal advances and debates in the field of human rights politics over the past half century.		R	U	
Arts	Political Science	POLI 579: Political Economy of Development	Third World development projects, programs, and policies in Africa, Asia and Latin America, intended to raise the standard of living and enhance political participation.		R	U	
Arts	Political Science	POLI 585: Nonproliferation Regimes	An analysis of the politics of the international regimes governing the control of weapons of mass destruction, including case studies of states that pose challenges to these regimes.		R	U	
Arts	Political Science	POLI 587: International Ethics	An examination of ethical reasoning and moral norms in political decision making, institutions, and processes in international politics. Topics such as justice in relation to war and terrorism, sovereignty, intervention and human rights, globalization and global poverty, and the environment may be analyzed.		R	U	
Arts	Political Science	POLI 619: War and Interpretation	An examination of the philosophical justifications offered to defend the use of military force, based particularly on the analysis of texts in the history of Western political philosophy.		R		G
Arts	Political Science	POLI 653: Gender and Public Policy	Explores the gendered impact of a range of public policies and also explores the influence of gender norms and ideas on the formulation of public policy. Topics covered include gender-based policy analysis, gender and the welfare state, family and child-care policies, policies to address gender inequalities in the labour market and workplace, and reproductive rights policies.		R		G
Arts	Political Science	POLI 675.34: Selected Topics in Advanced Comparative Politics - Sustainable Development	The course begins with an examination the theoretical and conceptual tools needed to analyse the project of sustainable development before addressing promising policies and practices in both the Global North and the Global South		R		G
Arts	Political Science	POLI 681: Advanced Analysis of International Relations	Selected issues and approaches in the analysis of world politics.		R		G
Arts	Political Science	POLI 683: Advanced Studies in Foreign Policy	Selected themes in the formation and implementation of foreign policies.		R		G
Arts	Political Science	POLI 684: Human Rights and Humanitarianism	An advanced introduction to the principal contemporary debates in the field of human rights and humanitarian politics.		R		G
Arts	Political Science	POLI 687: Advanced Studies in Canadian Arctic Security	The Canadian Arctic is an emerging area of concern due to changes scarcely imaginable even a few years ago. Examines the nature of some of these changes—e.g., climate change and the northern seas' dramatically changing ice conditions, growing recognition of the regions' resource wealth, and evolving international relations in the circumpolar region—and what they mean for Canadian Arctic security.		R		G

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Arts	Political Science	POLI 755.31: Environmental Policy Analysis	This course will explore the empirical and normative factors that shape environmental policy analysis. Multiple factors will be explored in depth, such as politics, economics, risk assessment, energy and natural resource extraction, and impacts to the environment (e.g. pollution, climate, water use, land use).		R		G
Arts	Psychology	PSYC 330: Health Psychology	Health psychology involves the discipline and principles of psychology and human behavior in understanding how the mind, body, and behavior interact in health and disease. Class topics include psychosocial models of health and disease, stress and coping, health enhancing and health damaging behaviors, pain management, and a variety of specific behavior-related medical illnesses (e.g., heart disease, cancer, insomnia).		R	U	
Arts	Psychology	PSYC 427: Environmental Psychology	The theory and data pertaining to the relationship between human behaviour and the physical environment, both natural and built. Particular emphasis is placed on the implications of current knowledge for the management of the human-environment interface. A research project is an integral part of the course.		R	U	
Arts	Psychology	PSYC 437: Healthy Psychology	Health psychology involves the discipline and principles of psychology and human behaviour in understanding how the mind, body, and behaviour interact in health and disease. Class topics include psychosocial models of health and disease, stress and coping, health enhancing and health damaging behaviours, pain management, and a variety of specific behaviour-related medical illnesses (e.g., heart disease, cancer, insomnia).		R	U	
Arts	Sociology	SOCI 307: Sociology of First Nations in Canada	The dynamics of Native Indian groups' relations with each other and the larger society. Topics include decolonization and relations with the state, demography, Indian organizations, Indian nationalism and nation-building, power, social class and public policy.		R	U	
Arts	Sociology	SOCI 321: Sociology of Health and Illness	Introduction to social factors influencing health, illness, and medicine. Topics covered may include the organization of medical institutions and occupations, the socialization of medical professionals, the social construction of illness, social determinants of health, and comparative health-care systems and policy.		R	U	
Arts	Sociology	SOCI 353: Urban Sociology	Discusses the impact of urbanization on social relationships by analyzing city living in historical and global perspective but also through local issues such as density and neighbourhoods. Provides a sociological perspective on issues that cities are facing today.		R	U	
Arts	Sociology	SOCI 375: Sociology of Ethnicity and Racialization	Introduction to the forms of ethnic and racial dynamics in selected cases around the world. Such concepts as identity, ethnicity, race, racialization, racism, assimilation, integration, pluralism, colonialism, post-colonialism, transnationalism and diasporas are examined in theoretical and cross-national contexts.		R	U	
Arts	Sociology	SOCI 409: Social Determinants of Health	An advanced study of health in a social context. Examines the social determinants of health and illness outcomes along with their implications for public policies conducive to better health.		R	U	
Arts	Sociology	SOCI 453: Speical Topics in Urban Sociology	Critical analysis of theories of urban institutional and ecological characteristics. Emphasis is on comparative data derived from a sample of world cities.		R	U	
Arts	Sociology	SOCI 475: Special Topics in Race and Ethnic Relations	Advanced analysis of selected themes and issues in race and ethnic relations within the framework of theory and research.		R	U	
Arts	Sociology	SOCI 487: Sociology of Development	A study of the process of change and modernization in the developing areas of the world.		R	U	
Arts	Urban Studies	UBST 311: The Gendered City	Introduction to urban gender issues from historical and spatial perspectives. Issues such as the gendering of urban design and planning, daily urban activities, urban labour markets, urban politics, gentrification, suburbanization, and identity construction in urban places are addressed.	F		U	
Arts	Urban Studies	UBST 394: Overseas Field School in Sustainable Urbanism Part I	Field research focusing on urban sustainability themes in regions outside North America. Group travel-study combined with formal instruction and seminars.	F		U	
Arts	Urban Studies	UBST 395: Overseas Field School in Sustainable Urbanism Part II	Field research focusing on urban sustainability themes in regions outside North America. Group travel-study combined with formal instruction and seminars.	F		U	
Arts	Urban Studies	UBST 451: Planning in the Canadian City	Introduction to Canadian urban planning theory and practice. Focuses on the history of planning, and aspects of practice such as neighbourhood planning, historic preservation, urban design and long-range planning.	F		U	
Arts	Urban Studies	UBST 461: The Transit City	An exploration of the relationships among public transit, urban form, and land use planning and policy in the context of challenges such as climate change, energy shortages, widespread urbanization and traffic congestion.		R	U	
Arts	Urban Studies	UBST 591: Capstone in Urban Studies	Capstone course applying the broad interdisciplinary training of the Urban Studies Program to selected problems in urban studies. Collaborative research and analysis is stressed.		R	U	
Arts	Women's Studies	WMST 301.01 Global Feminisms	This course will explore culturally diverse perspectives on feminist issues, movements and activism by means of reading, discussion and guest speakers.		R	U	
Arts	Women's Studies	WMST 301.03: Social Issues and Gender – Gender and Leadership	This course explores the gender dimensions of leadership from an intersectional perspective. We examine business, political and public service/activist leadership trends and perceptions of gender and sexual difference within these organizational cultures.		R	U	
Arts	Women's Studies	WMST 301.04 Women and Health	This course critically examines the workings of gender, race and class that shape our understandings and experiences of health, illness, disability, and healing. Approaches utilized will necessarily be interdisciplinary, holistic and intersectional.		R	U	
Environmental Design	Environmental Design	EVDS 401: Introduction to Environmental Design	An examination of the central concepts of environmental design, delivered in an online format. Topics include: the natural, built and human environments, and interdisciplinary issues.		R		G
Environmental Design	Environmental Design	EVDS 501: Interdisciplinary Seminar	Conceptual frameworks in Environmental Design and theories related to design and environment that influence environmental design thinking and practice.		R		G

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Environmental Design	Environmental Design	EVDS 523: Sustainability in the Built Environment	The principle of sustainability recognizes people as temporary stewards of their environments, working toward a respect for natural systems and a higher quality of life. Examination of the built environment and the tools to achieve a stable and balanced and a regenerative ecosystem in a process of responsible consumption, wherein waste is minimized and the built environment interacts with natural environments and cycles. Healthful interior environments, resource efficiency, ecologically benign materials, renewable energies and social justice issues are examined.	F			G
Environmental Design	Environmental Design	EVDS 583: Special Topics in Environmental Design	Thematic inquiry and design related to environmental design topics.		R		G
Environmental Design	Environmental Design	EVDS 601: Interdisciplinary Seminar	Conceptual frameworks in Environmental Design and theories related to design and environment that influence environmental design thinking, research, and practice.	F			G
Environmental Design	Environmental Design	EVDS 611: GIS for Environmental Design	Introduction to the use of GIS in urban planning and environmental management. Discussions on GIS modelling focus on population projection, location theory, land use modelling and environmental and ecological management. Case studies from both the public and private sector provide the basis of assignments. Emphasis given to developing sensitivity to the application appropriate for specific GIS problems.		R		G
Environmental Design	Environmental Design	EVDS 616: Urban Transportation, Infrastructure and Land Use	Acquaints students with the key infrastructure systems of a city. Examines current policies, standards and practices, challenges, and innovations in the following infrastructure sectors: water, sewage, waste management, open space, energy, transportation, and communication. Discusses the relationship between infrastructure systems and land use, and its impacts on quality of life, economic development, spatial structure, and the environment. Emphasis is given to green infrastructure development. The course also examines various financial and institutional frameworks for delivering infrastructure systems, and how they vary across different contexts.	F			G
Environmental Design	Environmental Design	EVDS 618: Urban Design Studio	This studio aims to further develop skills in conceptualization and visualization through consideration of contemporary urban design issues. It includes documentation and analysis of urban form and process, and explores site planning and design of the public realm. Issues of local and regional identity and sustainability inform the approach of the studio.	F			G
Environmental Design	Environmental Design	EVDS 621: Health in the Built Environment	Concepts of health in an environmental context; historic approaches to preventative medicine; medical basis of building-related illness; case studies in indoor air quality; strategies for prescription and design of healthy indoor environments.		R		G
Environmental Design	Environmental Design	EVDS 623: Regional Planning Studio	Concepts of health in an environmental context; historic approaches to preventative medicine; medical basis of building-related illness; case studies in indoor air quality; strategies for prescription and design of healthy indoor environments.		R		G
Environmental Design	Environmental Design	EVDS 624: Impact Assessment and Risk Management	EIA is the process of identifying, predicting, evaluating and mitigating the environmental effects of development proposals prior to major decision-making. Biophysical, economic and social impact assessment will be reviewed in an integrated, interdisciplinary approach which will include lectures, studies of methodologies, theory and practical problems, and discourse with practitioners. Federal and various Provincial environmental impact assessment policies and procedures will be critically analyzed.		R		G
Environmental Design	Environmental Design	EVDS 626: Landscape Planning and Ecological Design	Project oriented course focusing on interdisciplinary methods, process and theoretical foundations of ecological design and its applications in the built environment and urban and regional landscapes. Principles of landscape ecology, systems theory, technology design and transfer ecosystem science, landscape process form and function, environmental gradients, habitat, trophic organization and nutrient flows will be used in design of interventions for problem solving in built environment and urban-regional contexts including: sustainable urban form, ecological infrastructure and ecosystem services, urban environmental management and water management in urbanizing watersheds.		R		G
Environmental Design	Environmental Design	EVDS 643: Field Studies	Introduction to the architecture, urban landscape, planning issues, design culture and other relevant faculty topics in an international setting. Specific destination and itinerary in any given year are dependent on availability and interest. Through a week long field trip students will learn about the built and natural environment of the selected city and its context.		R		G
Environmental Design	Environmental Design	EVDS 671: Urban Design Theory	Intended to provide students with an introduction to theories, concepts, methods and contemporary issues in urban design. The course consists of lectures, case studies, seminars and a short project.		R		G
Environmental Design	Environmental Design	EVDS 675: Urban Systems	Provides a general overview of Barcelona's urban history, development and planning traditions. Lectures and field studies give a chronological overview of the city's urban, architectural and design history and the inter-relation to political programs, economic and strategic planning as well as cultural nationalism. From the Barcelona case the course will extract a number of more general issues about contemporary cities for debate.		R		G
Environmental Design	Environmental Design	EVDS 683.60: Solar Building Envelope Design – Renewable Technology	Thematic inquiry and design related to environmental design topics.	F			G
Environmental Design	Environmental Design	EVDS 683.66: Theory in Planning	Thematic inquiry and design related to environmental design topics.		R		G
Environmental Design	Environmental Design	EVDS 683.68: Sustainable Housing	Thematic inquiry and design related to environmental design topics.	F			G
Environmental Design	Environmental Design	EVDS 683.74: Sustainable Cities (Block Course)	Thematic inquiry and design related to environmental design topics.	F			G

Faculty	Department	Course	Course Description	Sustainability Courses (Focused)	Courses that Include Sustainability (Related)	Undergraduate	Graduate
Environmental Design	Environmental Design	EVDS 683. 85: Lifecycle Assessment	Thematic inquiry and design related to environmental design topics.		R		G
Environmental Design	Environmental Design	EVDS 723.02: Sustainable Futures and Planning Scenarios	Interdisciplinary teams will tackle client-based real world environmental design problems. Intervention strategies and design as a problem-solving approach to complex urban, ecological, social, and technological interactions will be addressed.	F			G
Environmental Design	Environmental Design	EVDS 753: Research Skills and Critical Thinking	Exploration of the research process in an environmental design context and using design as a method of research. Design of innovative research methods appropriate for environmental design research. Development of skills in research design and critical thinking while writing a research proposal.		R		G
Environmental Design	Architectural Studies	ARST 423: Sustainability in the Built Environment	The principle of sustainability recognizes people as temporary stewards of their environments, working toward a respect for natural systems and a higher quality of life. Examination of the built environment and the tools to achieve a stable and balanced and a regenerative ecosystem in a process of responsible consumption, wherein waste is minimized and the built environment interacts with natural environments and cycles. Healthful interior environments, resource efficiency, ecologically benign materials, renewable energies and social justice issues are examined.		R	U	
Environmental Design	Architectural Studies	ARST 483: Interdisciplinary Seminar	Conceptual frameworks in Environmental Design and theories related to design and environment that influence environmental design thinking and practice.		R	U	
Environmental Design	EVDS - Architecture	EVDA 580: Studio I: Design Thinking	Foundation concepts in design and form making involving a sequence of progress skill building, visual and spatial thinking and problem-solving exercises.		R		G
Environmental Design	EVDS - Architecture	EVDA 615: Environmental Control Systems	Approaches to the design of heating, cooling, and ventilation systems for buildings. Issues in system design such as energy efficiency and indoor air quality.	F			G
Environmental Design	EVDS - Architecture	EVDA 617: Architectural Lighting Design	Fundamentals of light and visual perception. Approaches to the design of non-uniform and uniform lighting systems for buildings. Issues in system design such as human satisfaction, performance and energy efficiency. Development of skills in the selection and design of lighting systems.	F			G
Environmental Design	EVDS - Architecture	EVDA 682.02: Intermediate Studio - Impact of Human Construction on Global Ecosystems (and vice versa).	An intermediate design studio in which students work on projects defined by the instructor. Topics may vary from year to year and are determined by the creative interests of the faculty assigned to the course. Enrolment may be limited.	F			G
Environmental Design	EVDS - Architecture	EVDA 682.04: Comprehensive Design Studio - Ecologies of Technology	An intermediate design studio in which students work on projects defined by the instructor. Topics may vary from year to year and are determined by the creative interests of the faculty assigned to the course. Enrolment may be limited. 682.02 Intermediate Studio 682.04 Comprehensive Design Studio		R		G
Environmental Design	EVDS - Architecture	EVDA 683.02: Intermediate Studio - Sustainable Buildings for Cold Climates	682.02 Intermediate Studio	F			G
Environmental Design	EVDS - Planning	EVDP 623: Regional Planning and Land Use Management	History, theory and rationales for regional planning. Conservation planning concepts: ecological assets, goods and services; biodiversity conservation; protected areas and networks. Regional land use planning tools: spatial analysis, environmental assessment, risk assessment, cost/benefit analysis, fiscal assessment, regulatory approaches (zoning), market-based incentives. Application to industrial land use in Alberta.		R		G
Environmental Design	EVDS - Planning	EVDP 626: Landscape Ecology and Planning	682.04 Comprehensive Design Studio	F			G
Environmental Design	EVDS - Planning	EVDP 631: Planning and Public Engagement	Overview of key principles and theories, and contemporary issues and tools of participation and public engagement as it applies to planning. Consideration of public engagement, facilitation, negotiation and conflict resolution processes from the point of view of community activists, city planners, developers and planning/design professionals. Development and implementation of public engagement plans.	F			G
Environmental Design	EVDS - Planning	EVDP 636: Community Planning	Introduction to land use planning and development issues. Provides a step-by-step introduction to community planning processes and essential planning policies to create development that is economically feasible, socially inclusive and environmentally sustainable.		R	U	
Environmental Design	Environmental Design	EVDP 637: Community Planning Studio	Community Planning Studio: The overall objective of the Community Planning Studio is to introduce students to theoretical approaches and practical applications to land use planning and development issues in urban and suburban contexts.		R		G
Science	Biology	BIOL 307: Ecology and Human Affairs	The major principles of ecology. How the physical environment affects organisms; behavioural ecology and life histories; species interactions; the biology of populations, communities, and ecosystems; biodiversity and conservation. The non-biologists will gain an understanding of ecological and evolutionary principles that will allow them to better appreciate the natural world, and the increasing environmental impacts of humans.	F		U	
Science	Biology	BIOL 309: Plants and People	A review of the structure and function of plants. A survey of the nature of people's basic food plants and an overview of agricultural and forestry practices. Plant improvement by traditional and modern methods, and plant propagation.		R	U	
Science	Biology	BIOL 313: Principles of Ecology	The ecological principles, theories and interactions of organisms at individual, population, community and ecosystem levels will be explored. Ecological principles will be applied to examine current issues involving conservation of species, habitats, biodiversity and ecosystem function.	F		U	

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Science	Biology	BIOL 375: Insects, Science and Society	Examination of insects as the most diverse and abundant form of animal life on the planet, why they are so successful and how they influence our lives. Topics include how insects are built, what they do, and how they interact with people and have come to be so important economically and culturally, as pests, pollinators, experimental animals, maintaining our environment and forming complex societies. Other topics include evolution of insects, insects in history and culture and how insects can help us address issues such as biological conservation, climate change and animal rights.		R	U	
Science	Biology	BIOL 451: Conservation Biology	The application of ecological theory and principles to the conservation and management of natural and modified ecosystems, with emphasis on preservation of biodiversity and sustainable development. Topics include disturbance as an ecological process, ecological and evolutionary responsiveness of natural systems, ecology of resource harvesting, management of endangered habitats and populations, implications of human population growth and global change.	F		U	
Science	Biology	BIOL 453: Plants in their Environment	An integration of physiological and ecological aspects of plant adaptation to different environments. Topics include interactions between plants and other organisms (e.g., bacterial and fungal symbionts, animal pollinators, herbivores) as well as the influence of abiotic stressors on plant growth and distribution. The ecological consequences and possible applications of such interactions are discussed.		R	U	
Science	Biology	BIOL 505: Medicinal Plant Biochemistry	Deals with biochemical, molecular, and cellular aspects of plant metabolism, natural product diversity in the plant kingdom, and modern molecular and biochemical methods to understand plant metabolism. The focus is on the metabolic pathways that are either unique to plants, or that exhibit unique features in, plants. Several key plant pathways that produce plant-derived medicines will be discussed.		R	U	
Science	Cellular and Molecular Biology	CMMB 543: Environmental Microbiology	Focuses on understanding the interactions of micro-organisms with their environment. Roles of micro-organisms in nutrient cycling, biological control, and biodegradation will be discussed. The use of molecular approaches to identify and characterize microbial communities, and to understand the precise nature of microbial interactions with abiotic and biotic environments will be emphasized. Special topics will include plant-microbe and animal-microbe symbiosis, extreme environments and biotechnological applications of environmental microbiology.		R	U	
Science	Ecology	ECOL 413: Field Course in Ecology	An examination of ecological principles and techniques through field exercises, including studies of terrestrial and aquatic populations, communities and ecosystems. The course is held at the Kananaskis Centre for Environmental Research in the two weeks immediately prior to the commencement of the Fall Term.		R	U	
Science	Ecology	ECOL 417: Aquatic Communities and Ecosystems	Community composition and dynamics at the various trophic levels of aquatic ecosystems. Temporal and spatial changes in community composition, physical and chemical conditions, and their effects on the ecosystem. There will be a full week-end field trip, normally during the first or second week of the term.		R	U	
Science	Ecology	ECOL 439: Ecology of Populations	A conceptual and practical treatment of population ecology including: population growth, demography, life histories, population dynamics, competition, predation and mutualism.		R	U	
Science	Marine Science	MSRC 321: Introduction to Marine Science	Exploring the ocean environment, marine organisms, marine ecosystems and the impact of humans on the sea.		R	U	
Science	Marine Science	MSRC 525: Ecological Adaptations of Seaweeds	An exploration of morphological, physiological, genetic and reproductive adaptations of seaweeds to their natural and man-altered environments. Daily lectures and laboratory exercises will complement frequent field observations.		R	U	
Science	Plant Biology	PLBI 401: Plant Biotechnology	The theory, application and history of plant biotechnology. Plant genome structure and the regulation of gene expression. Transcript, protein and metabolic profiling. Recombinant gene transfer into the plant genome. Biotechnological approaches to crop improvement, soil remediation and value-added traits.		R	U	
Science	Zoology	ZOOL 528A.45: Independent Studies in Zoology (Landscape & Biodiversity)	Original and independent thought, practical research and the completion of written and oral reports.		R	U	
Science	Zoology	ZOOL 528B.45: Independent Studies in Zoology (Landscape & Biodiversity)	Original and independent thought, practical research and the completion of written and oral reports.		R	U	
Science	Chemistry	CHEM 321: Environmental Chemistry	A survey course of major aspects of environmental chemistry including the natural chemical cycles in the biosphere, geosphere, hydrosphere and atmosphere and the consequences of anthropogenic disturbances to these cycles. Topics discussed will include: Aquatic Chemistry and water pollution. Atmospheric Chemistry and its alteration. Soil Chemistry and the fate of pollutants. Hazardous waste. Toxicological Chemistry.		R	U	
Science	Chemistry	CHEM 423: Green Chemistry: Principles and Techniques	Green Chemistry focuses on the science and techniques that chemists and chemical and process engineers use to generate less waste, and to develop products and processes that are more atom- and energy-efficient, environmentally sensitive, and cost-effective. A look at the principles behind green chemistry, some techniques and processes used in achieving atom- and energy-efficiency, and waste reduction.		R	U	
Science	Chemistry	CHEM 521: Introduction to Atmospheric Chemistry	An introduction to Tropospheric and Stratospheric Chemistry. The detailed chemistry of the stratosphere and troposphere. Gas-phase chemical kinetics. Photochemistry and atmospheric radiation. Aerosols. Anthropogenic pollution and air quality. Climate forcing. Introduction to modelling and atmospheric transport.	F		U	
Science	Geology	GLGY 202: Applications of Geoscience	Applications of geology and geophysics to the study of earthquakes, volcanoes and other geologic hazards; natural resources; environmental management; human impact on the Earth and global change.		R	U	
Science	Geophysics	GOPH 375: Natural Disasters and Critical Earth Phenomenon	Causes of disasters such as earthquakes, tsunami, volcanic eruptions, mud flows, landslides, avalanches, flooding, tornadoes and hurricanes, and other critical phenomena such as sinkholes, ozone depletion and radiation, carbon dioxide and global warming, El Nino, toxic natural materials and pollution, and extraterrestrial impacts. Surveys of historic disasters and their effects on life on Earth. Methods of prediction and prevention of disasters and precautions for the mitigation of their effects.	F		U	
Science	Science	SCIE 403: Science in Society	Exploration of the interaction among science and non-science areas in various ways including by written and oral presentations.	F		U	
Science	Science	SCIE 521: Principles of Solar Energy	The nature of solar radiation and how that energy may be captured for useful energy production.	F		U	
Science	Science	SCIE 525: Principles of Wave and Wind Energy	Aerodynamics of windmills and hydrodynamics of wave collectors.	F		U	
Science	Science	SCIE 529: Project Course in Sustainable Energy, Environment and Economy	Intended to achieve integration across the interdisciplinary energy, environment and economy programs.	F		U	

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Science	Science	SCIE 531: Principles of Hydroelectric Energy	An introduction to the scientific fundamentals of hydroelectric energy production. Includes an examination of the technologies and potential for developing hydroelectricity, along with the environmental, societal, and economic issues surrounding its development.	F		U	
Science	Science	SCIE 533: Principles of Geothermal Energy	The scientific principles governing geothermal energy development for both low and high temperature systems, and related technical, environmental and socioeconomic issues.		R	U	
Science	Physics	PHYS 371: Introduction to Energy	Energy and power will be discussed. Sources of energy such as wind power, solar power, nuclear power, geothermal energy and fossil fuels and related limitations will be considered. Generation and distribution of electricity will be discussed.		R	U	
Engineering	Biomedical Engineering	BMEN 619.09: Special Topics in Biomedical Engineering - Biomimetics	Advanced instruction on human skeletal structure, types of connective tissues, structure of joints, muscle and organ structure and function, cardiac physiology, blood properties and flow, introduction to autonomous nervous system, and disorders of the musculoskeletal system. Other topics will be covered dependent on the interests of the instructor and students.		R	U	
Engineering	Chemical Engineering	ENCH 643: Air Pollution Control Engineering	Introduction to air quality and air pollution. Energy and air pollution. Fossil fuel combustion and related air pollution. Industrial air pollution control. Control of particulate matter. Control of VOCs, SOx, and NOx. Adsorption, absorption and biofiltration of air pollutants. GHG emission control. Recent advances on related topics.	F		U	
Engineering	Civil Engineering	ENCI 481: Environmental Engineering	Analyze and develop civil engineering solutions, at a conceptual level, to human health and environmental problems associated with human activities, fundamental aspects of air, water and land pollution, water quality assessment and control, environmental aspects of non-renewable energy development, introduction to sustainability concepts in construction and transportation, solid waste management technologies, introduction to land pollution prevention and control.	F		U	
Engineering	Civil Engineering	ENCI 502: Civil Engineering Aspects of Sustainable Communities	Definition of sustainability; global urbanization; emissions from transportation systems; economics of urban development from a civil infrastructure point of view, water/wastewater, land use/transportation; public transportation; travel demand management for sustainability; construction industry - energy use and emissions.		R		G
Engineering	Civil Engineering	ENCI 506: Sustainable Infrastructure	Sustainability and durability issues of structural materials; properties and uses of non-renewable and recycled materials; energy efficient design and green material selection; life cycle cost analysis. Constructability. Aesthetics. Infrastructure management, inventory, assessment/monitoring, performance and remaining service life. Preservation of existing infrastructure; repair and rehabilitation, strengthening and retrofitting to extend service life of structures. Structural composites: properties and applications to improve performance and sustainability of infrastructure.		R	U	
Engineering	Civil Engineering	ENCI 508: Environmental Aspects of Energy	Environmental assessment and management in the energy sector. Ecological footprint introduction. Site investigation, field techniques and program implementation, remedial planning and design, cost and time analysis, physical, chemical and biological remediation techniques, biomass and waste to energy, energy use and emissions in transportation systems, energy efficiencies and emissions in building construction, assess problems with energy use from an environmental setting, develop and apply engineered solutions, ecological and environmental footprints of energy industries.		R	U	
Engineering	Civil Engineering	ENCI 645: Risk Analysis	The objective of this course in engineering risk analysis and risk assessment is to familiarize students with the principles and techniques of quantitative risk analysis. Key focus points are the treatment of uncertainties, the attitude of conservatism, risk perception, the careful use of quantitative risk measures, and a discussion of the dangers tasks facing risk-based decision makers. Includes: Hazards, risk, risk analysis, risk assessment; risk measures; probability, uncertainty modelling, stochastic variables; using and misusing data, reliability, tails; risk assessment frameworks, models in health and environmental risk analysis, models in engineering risk analysis; risk perception, risk comparison; and practical case studies.		R		G
Engineering	Civil Engineering (Transportation Studies)	TRAN 473: Introduction to Transportation Planning	Goals and objectives of urban and regional transportation planning; the transportation planning process; trip generation, trip distribution, modal split, traffic assignment; transportation surveys and data collection; fundamentals of traffic flow; capacity and level of service; urban transportation technology; computer simulation models of urban transportation; environmental impacts; transportation systems management; energy considerations; pedestrian movement systems; urban goods movement; impact of transportation system on city growth; urban transportation policy and financing in Canada.		R	U	
Engineering	Electrical Engineering	ENEL 581: Renewable Energy and Solid State Lighting for Human Development	Introduction to solid state lighting (SSL) and renewable energy (RE) systems. Topics include: history of lighting, illumination standards, incandescent bulbs, fluorescent tubes, White LEDs their properties and measurement; photovoltaic, wind power, hydro power, human and animal power, thermoelectric, biomass energy, biodiesel, fuel cells and SSL system design. SSL project planning and financing, environmental and social impact assessments, carbon credits and SSL system metrics for the developing world.	F		U	
Engineering	Electrical Engineering	ENEL 661: Grid-Connected Inverters for Alternate Energy Systems	Analysis and design of grid-connected inverters fed by an alternative energy source. Switch mode converters, inverter topologies, harmonics, drive electronics, control methodologies, implementation techniques, course project.		R	U	
Engineering	Electrical Engineering	ENEL 669: Renewable Energy and Solid State Lighting for the Developing World	History of Lighting, Illumination Measurements and Standards - Incandescent, Fluorescent, LEDs and OLEDs. Generation using Hydro, Solar, Photovoltaic, Wind, Thermoelectric, Biomass, Thermal. Energy Storage and Supply Chains. System Design, Analysis and Life Cycle Assessment. Kyoto Protocol, Carbon Credits and Trading.		R	U	
Engineering	Energy and Environment Engineering	ENEE 355: Introduction to Energy and the Environment	History of energy technologies, energetics of natural systems and agriculture, formation, extraction, and transformations of fossil fuels, renewables such as biomass, solar and wind; and the electricity system, environmental impacts of energy systems, technical options for transforming energy systems to reduce environmental impacts.	F		U	
Engineering	Energy and Environment Engineering	ENEE 503: Life Cycle Assessment	Concepts of life cycle analysis. Applications to energy utilization, environmental consequences, sustainable development, environmental process analysis, and optimization. Inventory, impact and improvement analyses of energy systems. LCA Model development and utilization. Human health and safety considerations.	F		U	

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Engineering	Energy and Environment	ENEE 519.09: Special Topics in Energy and Environment	Current advanced topics in Energy and Environment.	F		U	
Engineering	Energy and Environment Engineering	ENEE 573: Engineering Aspect of Sustainable Communities	Ecological footprint, life cycle assessment, sustainable construction, energy efficiency in buildings, intelligent and sustainable transportation, control of water/air pollution from mobile and stationary sources, energy from waste.		R	U	
Engineering	Energy and Environment Engineering	ENEE 575: Alternative Energy Systems	An overview of alternative energy systems including hydroelectric, wind, solar (thermal, concentrating, and photovoltaic), distributed generation using gas turbines. Energy system performance quantified using thermodynamic, fluid mechanic, and heat transfer analysis.	F		U	
Engineering	Engineering and Environmental Systems	EESS 601: Introduction to Energy and Environmental Systems	The course provides a structured overview to the interactions of energy systems and the environment. The lectures are taught collaboratively by several EESS faculty. The course aims to foster a unified, scientific understanding of energy flows and transformations in industrial society and the natural world; a scientific overview of some of the most important links between energy and environmental systems; and an introduction to the business, legal and regulatory systems that shape the interactions between energy and environment.		R		G
Engineering	Environmental Engineering	ENEN 671: Energy and Environment	Introduction to formation, extraction, transportation and conversion of fossil fuels; electricity generation, transmission and distribution; thermal power and cogeneration; nuclear power; renewable energy sources; energy efficiency and conservation; exergy analysis; greenhouse gas emissions; air, land and water pollution and their mitigation.	F		U	
Engineering	Environmental Engineering	ENEN 691: Environmental Policy Analysis	An examination of the policy tools used in decision-making related to the environment, the course aims to facilitate dialogue between political scientists and engineers. Topics include: risk analysis; decision analysis; uncertainty assessment; and benefit-cost analysis. The structure and evolution of environmental regulation will be used as a theme with an emphasis on energy.		R		G
Engineering	Environmental Engineering	ENEN 693: Lifecycle Assessment	Concepts of life cycle assessment. Consideration of environmental and economic impacts from the extraction of resources to the disposal of unwanted residuals. Review and evaluation of tools and frameworks (e.g. process, input-output, hybrid life cycle assessment). Relative merits of various methods for interpreting and valuing the impacts. Examples of applications in environmental engineering and the energy industry.	F			G
Engineering	Engineering	ENGG 481: Technology and Society	An interpretive course on the interrelationship between technology and society. The first part of the course surveys significant historical developments within disciplinary areas such as energy, materials, production processes, structures, transport, communications, and computation. Sequence within each area: discovery, development, application, impact, future. Social and economic consequences are also considered. The latter part of the course explores contemporary problems of society and technology.		R		G
Engineering	Geomatics Engineering	ENGO 581: Land Use Planning	Theoretical and historical bases of planning. Urban reform and development of planning in Canada. Sustainable development. Subdivision planning process. Provincial and municipal planning approval requirements. Public participation. Site assessments. Field exercises may take place off campus over week-ends.		R	U	
Engineering	Geomatics Engineering	ENGO 583: Environmental Modelling	Nature and purpose of environmental modelling; the top-down and the bottom-up approaches; typology of environmental models; definition of fundamental concepts; steps involved in designing and building a model; calibration, verification and validation of models; scale dependency; sensitivity analysis; characteristics, architecture and functioning of selected environmental models.		R	U	
Engineering	Geomatics Engineering/ Environmental Engineering	ENGO/ENEN 637: Earth Observation for the Environment	An introduction to environmental earth observation systems in particular to satellite platforms. Topics include: discussion of physical principles, including governing equations; imaging system geometries; radiometric corrections, including calibration and atmospheric correction; spatial filtering for noise removal and information extraction; geometric corrections, including rectification and registration; fusion of multi-dimensional datasets (i.e., multispectral, multi-temporal, multi-resolution, and point-source ground data); and application of satellite images in addressing selected environmental issues.		R		G
Engineering	Mechanical Engineering	ENME 583: Mechanical Systems in Buildings	Fundamentals of heating, ventilating, and air conditioning systems in buildings. Heating and cooling loads. Codes, regulations, and standards. System selection, generation equipment, heat exchangers, distribution and driving systems, terminal units, controls and accessories, and cost estimating. Energy efficiency and renewable energy applications. Elevators and escalators. Lifting devices. Sewage systems.		R	U	
Engineering	Mechanical Engineering	ENME 619.56: Special Problems - Introduction to Biomimicry	Designed to provide graduate students, especially at the PhD level, with the opportunity of pursuing advanced studies in particular areas under the direction of a faculty member. Students would be required to consider problems of an advanced nature.		R		G
Engineering	Mechanical Engineering	ENME 629: Fuel Science and Technology	Review origins of fuels, reservoir technology and geology. Past, present and future energy supply and demand. Classification of fuels. Physical and chemical properties. Fuel handling and fire hazards. Requirements of conventional and non-conventional power and heating plants. Ecological and efficiency considerations. Some non-conventional fuels.		R	U	
Engineering	Mechanical Engineering	ENME 637: Thermal Systems Analysis	Fundamentals of thermodynamics, fluid mechanics, heat transfer and combustion; Modelling of thermophysical properties; Second law of thermodynamics, concept of entropy generation and exergy analysis; Minimizing environmental impact; Advanced design and analysis of heat exchangers, co-generation, renewable energy systems, and propulsion systems.		R		G
Business	Business and Environment	BSEN 749: Rediscovering Leadership - The Haskayne Wilderness Retreat	One-week intensive wilderness retreat combines experiential outdoor activities and personal growth challenges with cross-cultural First Nations teachings and ceremonies to deliver core leadership skills for social responsibility and sustainable development.		R		G

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Business	Business and Environment	BSEN 751: Strategies for Sustainable Development	The strategic context for making business decisions with respect to sustainable development issues. The role of sustainability in economic development, international trade relations and emerging technologies. Stakeholder perspectives and the effect of environmental and social issues on industrial performance.		R		G
Business	Energy Management	ENMG 489: International Energy Development	A focus on international energy development, energy contracts, sustainable development, and the management of environmental and corporate social responsibility issues.		R	U	
Business	Management Studies	MGST 559: Undergraduate Wilderness Retreat - Developing Leaders for a Sustainable World	Examination of selected topics in management.		R		G
Business	Management	MGST 597: Directed Study in Management Studies	In-depth study in one of the functional areas of business.		R	U	
Business	Management Studies	MGST 597.17: Indigenous Peoples and Sustainable Development	In-depth study in one of the functional areas of business.		R	U	
Business	Management	MGST 797.19: Renewable Energy Impacts	Coverage of various topics on the basis of student and faculty interest.	F			G
Business	Strategy and Global Management	SGMA 751: Strategic Management in the Global Energy Industry	Characteristics of the energy industry. Major strategic issues facing top management teams in corporations involved in oil and gas and power businesses and relevant strategic tools for addressing them. Industry structure, energy value chain, key players and their strategies, industry dynamics and trends, supply and demand, expansion, M&As, roles of governments, OPEC and international politics, Kyoto Protocol, major technological drivers, organization and top management leadership.		R		G
Business	Tourism Management	TOUR 449: Policy, Planning and Research in Tourism	The course focuses on research and analysis designed to formulate policy, programs, and development initiatives to create and maintain economically competitive tourism destinations that are sustainable from an environmental, social, and cultural perspective. Conceptual foundations are applied to real world issues in a planning and policy context.		R		G
Business	Tourism Management	TOUR 741: Policy Planning and Development in Tourism	The planning process. The nature of tourism, and its role in national and regional development. Economic, social, psychological, environmental and technological impacts of tourism on the host community. Trade-offs. Strategies in development. Planning and public policy. National, provincial and local tourism Programs. The Alberta example.		R		G
Law	Law	LAW 519: Jurisprudence	A critical inquiry into the nature and functions of law and justice, including natural law, legal positivism, sociological jurisprudence, legal realism, and contemporary theorists.		R		G
Law	Law	LAW 521: Real Estate Transactions	An examination of the estate transactions. Topics include the purchase and sale of property, mortgaging and other ways to finance land transactions, commercial leasing arrangements, and the Land Titles Act as it relates to land development.		R		G
Law	Law	LAW 529: Biotechnology and the Law	The legal, ethical, and policy issues relating to biotechnology. Topics include genetically modified foods, animals and plants, synthetic genomics, animal-human combinations, xenotransplantation, human cloning, pharmacogenetics, biofuels, assisted human reproduction, stem cells, tissue engineering, genetic therapy, and genetic enhancement.		R		G
Law	Law	LAW 531: Environmental Law	Legal theories, concepts, principles, and processes relevant to environmental protection. Topics include ecological and ethical dimensions, jurisdictional issues, common law rights and remedies, environmental assessment, public participation, contaminated sites, enforcement and compliance, economic approaches, endangered species and protected spaces, land use planning, and environmental dispute resolution.		R		G
Law	Law	LAW 563: International Human Rights and Humanitarian Law	International human rights law, covering the main global instruments (such as the International Covenants, as well as the regional human rights systems of the Americas and Europe), with an introduction to the principles and concepts of International Humanitarian Law. Topics include women's human rights, death penalty, massive human rights violations, human rights and counter-terrorism, the rights of the child, the rights of indigenous peoples and minorities, and the role of non-state actors.		R		G
Law	Law	LAW 567: Law and Economics	An examination of the practical and theoretical implications arising from the application of economic reasoning to law. Topics include the economic method of legal analysis, the scope of its application, and the major critical responses in both traditional legal fields of economic influence (such as tort, contract and corporate law) and more novel areas (such as family and criminal law).		R		G
Law	Law	LAW 571: Oil and Gas Law	The upstream oil and gas industry. Topics include ownership of oil and gas and split estates; coalbed methane; the legal character of the private oil and gas lease; the anatomy of the various clauses of the oil and gas lease; and Crown disposition systems, including the Alberta (conventional and oil sands) and federal legislation and related policy question.		R		G
Law	Law	LAW 573: Public Lands and Natural Resources Law	The protection, exploitation, and management of Crown-owned lands and renewable and non-renewable natural resources (other than oil and gas, and including forestry, rangeland, minerals, wildlife, fisheries, wilderness, recreational, and heritage). Discussion of the nature of public ownership, public and private values, economic approaches, and inter-jurisdictional management.		R		G
Law	Law	LAW 579: Legal Theory, Selected Topics	Critical examination of the main theoretical writings in a major doctrinal area or group of doctrinal areas, such as private law (tort, contract and unjust enrichment); public law (criminal, Constitutional and administrative law); tort; contract; evidence; property; Constitutional; or criminal law.		R		G

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Law	Law	LAW 583: Water Law	Water resources and management, including the historical and current legal and policy frameworks governing surface and groundwater rights. Topics include responses to scarcity, alternative water management models and plans, industrial use and re-use of water, wetlands, protection of aquatic resources, aboriginal water rights, economic instruments, water as a human right, watershed approaches, and inter-jurisdictional or international issues.		R		G
Law	Law	LAW 587: Kawaskimhon National Aboriginal Moot	The development of advocacy, consensus building, and other lawyering skills in the context of a non-competitive moot conducted in a circle arrangement and using a moot problem based on contemporary issues in Aboriginal-Government relations. Includes a writing requirement.		R		G
Law	Law	LAW 594: Aboriginal Law	The law governing the relationship between indigenous peoples and settler society. Topics include recognition of aboriginal laws and custom, self-determination and other applicable principles of international law, self-government, common law recognition of aboriginal title, treaties, the honour of the Crown, the fiduciary duty of the Crown, the Crown's duty of consultation and accommodation, constitutional protection of aboriginal and treaty rights, application of provincial laws, the Indian Act, land surrenders, and exemptions from seizure and taxation.		R		G
Law	Law	LAW 597: International Trade Law	The public law framework for international trade, with emphasis on the WTO and NAFTA. Topics include national treatment, most favoured nation treatment, anti-dumping and countervail actions, and dispute resolution.		R		G
Law	Law	LAW 605: Oil and Gas Contracts	Selected problems in oil and gas law including industry contracts (pooling, farmout, joint operating, purchase and sale and royalty agreements); fiduciary duties; and title review.		R		G
Law	Law	LAW 617: Alternate Energy Law	The renewable energy and energy efficiency sectors. Topics include federalism, wind, small hydro, solar, biomass etc., energy conservation and demand side management, and access to energy infrastructure.		R		G
Law	Law	LAW 623: Environmental Impact Assessment Law	Environmental impact assessment (EIA) law and practice in Canada. Topics include the role of EIA in the regulatory process and as a planning tool, federalism, triggers, equivalency, harmonization, joint assessment, implementation of assessment decisions, adaptive management, strategic environmental assessment, the role of traditional knowledge, and public participation.		R		G
Law	Law	LAW 624: Environmental Law and Ethics	The ethical underpinning of environmental law, with a consideration of various views, including the land ethic, deep and shallow ecology, instrumental and utilitarian approaches, and inherent value.	F			G
Law	Law	LAW 626: International Development Law	The role of law in promoting social and economic growth, with a focus on the rule of law as an instrument of development and the dialogue between the developed and less developed worlds through international agreements. Topics include the rules of international trade and finance, intellectual property, the environment and natural resources, and the war on terrorism.		R		G
Law	Law	LAW 627: International Environmental Law	The customary and treaty law rules applicable to global and transboundary environmental issues. Topics include air pollution, climate change, international wildlife law and trade, the international chemicals agreements liability regimes, and shared resources.		R		G
Law	Law	LAW 630: International Petroleum Transactions	International business transactions in the context of the petroleum industry, including the various forms of state agreements; confidentiality agreements; study and bidding agreements; international joint operating agreements; agency agreements; and participation agreements; with attention to the key legal, business and ethical issues raised in negotiations.		R		G
Law	Law	LAW 634: Law of Species and Spaces	The principal federal and provincial laws governing the management of biological diversity, including protected area legislation and endangered species legislation. Explores the constitutional and common law fundamentals of wildlife law as well as contemporary disputes about species protection, ecosystem-level land management, and game ranch operations.		R		G
Law	Law	LAW 636: Municipal Law	The legal position of local governments, including cities and regional governments. Topics include the powers of Municipal Councils and Districts, the duties and responsibilities of elected and appointed municipal officials, conflicts of interest, elections, the regulation and licensing of businesses, proprietary and contractual powers, tort and the public body, subdivision, land use planning, and the role of the courts.		R		G
Law	Law	LAW 637: Energy Law	An overview of energy regulation, focusing on competition and pricing. Topics include the theory and process of energy regulation, regulatory jurisdiction, judicial review of energy regulation, regulation of natural gas and electricity prices, market restructuring, and deregulation. The course will familiarize students with the legal issues that arise when the legislature and regulators respond to market failures, and/or protect the public interest, in the provision of natural gas and electricity services.		R		G
Law	Law	LAW 641: Oil and Gas and Mining Taxation	The resource regime rules of the Income Tax Act as applied to the oil and gas and mining sectors. Topics include: operations subject to the resource regime; the treatment of property costs and common industry expenditures (i.e. applicable "tax pools" and their characteristics): resource industry "subsidies" (e.g. flow-through share financing, investment tax credits); the avoidance provisions (e.g. the successor rules); and the treatment of foreign operations of a Canadian resident taxpayer.		R		G
Law	Law	LAW 645: Pollution Control and Waste Management Law	The provincial and federal pollution control regimes for air and water pollution and for the handling, storage, treatment, and disposal of hazardous and non-hazardous wastes. Topics include federalism; regulatory and non-regulatory approaches to pollution from "point" and "non-point" sources; cumulative pollutant loads; the "precautionary" and "polluter pays" principles; and liability for contaminated sites.		R		G

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Law	Law	LAW 647: Regulatory Theory and the Law	The main theories that explain or justify government regulation, including correction for market failure, political economy or public choice, and deliberative democracy. The relationship between those theories and the development and implementation of regulatory legislation, regulation, and public policy.		R		G
Law	Law	LAW 705: Seminar in Legal Theory - Natural Resources, Energy and Environmental Law	The regulation of capital market participants; the issuance of, and trades in, securities of companies, with an emphasis on Alberta and the National Instruments enacted by the Canadian securities regulator; the theory of securities regulation; as well as enforcement and compliance.	F			G
Education	Educational Research	EDER 613: Change and Innovation	Examines both traditional and contemporary research literature relevant to change and innovation in educational settings.		R		G
Education	Educational Research	EDER 651.29: Sustainability in the Workplace	Philosophical topics in the context of education.		R		G
Education	Educational Research	EDER 689.12: Aspects of School Curriculum - Curricular Integration of Outdoor Education	Introductory systematic study of research and issues focused on various areas of the school curriculum.		R		G
Education	Educational Research	EDER 689.47: Aspects of School Curriculum - Storied Affinities: Ecology, Hermeneutics, Buddhism	Introductory systematic study of research and issues focused on various areas of the school curriculum.		R		G
Education	Educational Research	EDER 689.95: Aspects of School Curriculum - On Ecological Consciousness and Classroom Practice	Introductory systematic study of research and issues focused on various areas of the school curriculum.		R		G
Education	Educational Research	EDER 689.96: Aspects of School Curriculum - The Story of the Ecological Heart of Consciousness	Introductory systematic study of research and issues focused on various areas of the school curriculum.		R		G
Medicine	Community Health Sciences	MDCH 601: Determinants of Health	Learners will gain an understanding of the determinants of health within a population health framework. The course begins with an introduction to health and world views on how health is constructed. It then examines the determinants of health and population health frameworks through both an historical context and a contemporary analysis as well as key concepts such as the social gradient. The evidence-base for some of the determinants is then presented. The course ends with the implications for the determinants of health construct in analyzing and addressing specific population health problems.		R		G
Medicine	Community Health Sciences	MDCH 666: Health Policy	An advanced level course focused on developing and deepening participants' understanding of critical policy issues affecting health and health services. The course will primarily review health policy in the context of Canadian populations and systems. However, a more global comparative frame of reference will be used to test, challenge and contrast both the historical and current underpinnings of health policy in Canadian jurisdictions.		R		G
Medicine	Community Health Sciences	MDCH 680: Foundations of Population/Public Health	Students will learn, discuss, and interrogate foundational content in population health and public health. Foundational content includes history, structure, functions, concepts, theories, and debates. The course is structured with the first half focusing on public health and the second half focusing on population health.		R		G
Medicine	Community Health Sciences	MDCH 687: Environmental Health	Examination of the interaction between natural and man-made environments in human health/illness.		R		G
Medicine	Community Health Sciences	MDCH 689: Global Health and Development	An examination of health, the determinants of health, and approaches to health policy and programming in the context of less developed country populations. The course provides an overview of the history and evolution of primary health care and the role of health in development and examines current trends and issues related to global development. Cross-cutting themes include: international perspectives and trends in health sector reform, globalization, policy programming and financing, public participation in decision making, governance, health human resources, gender, human rights, partnerships and information-education-communication among others.		R		G
Medicine	Community Health Sciences	MDCH 780: Advanced Topics in Population/Public Health	Advanced topics and methods used in population/public health.		R		G
Medicine	Community Rehabilitation and Disability	CORE 545: Bioethics and Disability	An in-depth view of the impact of bioethics on social policy, disability studies, disability research and the lives of disabled people.		R	U	
Medicine	Community Rehabilitation and Disability	CORE 547: Health Research, Emerging Technologies and Marginalized Groups	Provides an in-depth global outlook on new, envisioned and emerging sciences and technologies and their global impact on (a) disabled people and disability studies; (b) the concept and field of rehabilitation and identity of rehabilitation professionals; (c) the concept of health professionals. Also provides an understanding of how disability studies scholars and rehabilitation and health policy, systems and care delivery scholars and professionals can enrich the new, envisioned and emerging science and technology and governance of science and technology discourse.		R	U	
Medicine	Community Rehabilitation and Disability	CORE 654: Health Research, Emerging Technologies and Marginalized Groups	Provides an in depth view of the impact of new emerging technologies and the governance of science and technology and health research on social policy, disability studies, disability research and the lives of disabled people and other marginalized groups.		R		G
Medicine	Health and Society	HSOC 301: Determinants of Health	A broad-based, interdisciplinary overview of models of the determinants of health. Includes an analysis of evidence of the relative influence of environmental factors, health services, lifestyles and health behaviours, social and economic factors, biological predispositions, and the mechanisms involved in the societal uptake of various conceptions.		R	U	
Medicine	Medical Science	MDSC/BIOL 515: Cellular Mechanisms of Disease	The cellular and molecular mechanisms underlying basic human disease processes and how these can be influenced by lifestyle and environmental factors. The ways in which this knowledge can be used in the laboratory diagnosis of disease.		R		G

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Medicine	Medical Science	MDSC 613.01: Advanced Studies in Microbiology	Specialized topics including basic principles of infection; spread, prevention and control of infectious diseases; mechanisms of and approaches to study bacterial pathogenesis; mechanism, methodology and modelling of gene expression.		R		G
Medicine	Medicine	MDCN 340: Population Health	Students will learn about concepts of health and disease as they apply to populations, communities and individual patients. The determinants of health and the distribution of disease within and between populations will be explored. The roles of health promotion, health protection and disease prevention will be presented. Students will learn about the evolution and function of the Canadian health-care system in the context of current and historic challenges and international alternatives. Basic epidemiology and biostatistics as they apply to the core concepts of the course will be covered. Community experience with individuals and social/medical agencies is a core part of this course.		R		G
Veterinary Medicine	Veterinary Medicine	VETM 323: Animals, Health, and Society	Roles of veterinarians in promoting, and contributing to, animal, human and ecosystem health are discussed. Emphasis is placed on determinants of health, and the interactions of animals, humans and the environment. Demonstrates how laws, policies and management decisions are applied to foster healthy animals, ecosystems and human-animal interactions.		R		G
Veterinary Medicine	Veterinary Medicine	VETM 440: Public Health and Risk Analysis	The roles of animals as sources of public health hazards and as sentinels for public health risk are examined. Students apply systems thinking to identify how zoonotic diseases and food safety hazards emerge, spread and are controlled. Public health strategies related to veterinary issues are applied to identify options for the prevention and control of hazards and reduction of health risks.		R		G
Veterinary Medicine	Veterinary Medicine	VETM 451: Selected Topics in Areas of Emphasis II	Students are exposed to career options in two of the Faculty's four major areas of emphasis: ecosystem and public health, and investigative medicine.		R		G
Veterinary Medicine	Veterinary Medicine	VETM 507: Professional Skills III	Building on Veterinary Medicine 307 and 407, students participate in a class research project, integrating research, informatics, communication, and clinical skills. Students will develop professional skills necessary for dealing with challenging issues in veterinary medicine. The concept of the healthy veterinarian and self-management will be expanded.		R		G
Veterinary Medicine	Veterinary Medicine	VETM 561: Ecosystem and Public Health Field Course	Students will synthesize concepts learned in Veterinary Medicine 440 and 462. Provides experience in applying regulatory requirements and diagnostic testing performed as part of the Canadian Food Inspection Agency accredited veterinary duties.		R		G
Veterinary Medicine	Veterinary Medicine	VETM 583: Ecosystem and Public Health	Students choose from a variety of rotations that enable concentration within Ecosystem and Public Health.		R	U	
Nursing	Nursing	NURS 288: Supporting Health I: Communities and Populations	Focus on a broad understanding of health and the basic frameworks and principles of population health promotion, primary health care and upstream thinking. Explores how health can be created and supported in a society. Emphasis on developing communication and relationship building skills to work effectively in a group or a team. Strategies to assess protect and promote the health of groups and communities.		R	U	
Nursing	Nursing	NURS 401: Community Health Theory	Exploration of concepts related to the focus of the community as a client. Public health, populations at risk for physical and psychosocial disruptions in health, environmental health, cultural health patterns and beliefs, group dynamics and communications with groups.		R	U	
Social Work	Social Work	SOWK 300: Generalist Practice in Context Theme Course	Exploration of concepts related to the focus of the community as a client. Public health, populations at risk for physical and psychosocial disruptions in health, environmental health, cultural health patterns and beliefs, group dynamics and communications with groups.		R	U	
Social Work	Social Work	SOWK 302: Research in Context Theme Course	An introduction to knowledge generation relevant to generalist social work practice. Foundational concepts and approaches of various research methodologies will be introduced as ways of knowledge building to inform practice and influence policy, particularly within rural, remote and Indigenous contexts.		R	U	
Social Work	Social Work	SOWK 304: Diversity and Oppression Theme Course	Examines diversity, colonization, oppression, and intergroup relations associated with the practice of social work in rural, remote, and Indigenous communities. Anti-oppressive frameworks will be introduced for understanding the processes associated with social justice.		R	U	
Social Work	Social Work	SOWK 363: Human Development and Environments	Explores the nature of human behaviour and development in diverse environments and contexts (personal, community, social, and environmental) and explores the implications for social work practice and theory.		R	U	
Social Work	Social Work	SOWK 383: Social Policy and Social Justice	Provides an understanding of Canadian social policy, its impact on social justice and how it influences social work practice.		R	U	
Social Work	Social Work	SOWK 397: Practice and Evaluation with Communities	An introduction to theories and skills about community practice. The focus will be on understanding the basic value, ethical, strategic, evaluative and political issues involved in working for community change.		R	U	
Social Work	Social Work	SOWK 557: Selected Topics: Contexts for Practice	Examines social work practice in specific contexts.		R		G

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Social Work	Social Work	SOWK 632: Social Policy and Social Justice	An exploration of the social, political and economic forces, social movements and social structures that are transforming the Canadian welfare state and the practice of social work.		R		G
Social Work	Social Work	SOWK 665: Influencing Policy Development	Focuses on leadership in policy practice and in particular policy advocacy at all levels of policy (i.e., organizational, community, and provincial or national levels).		R		G
Social Work	Social Work	SOWK 669: Leading Organizations and Communities	A practical course that will emphasize networked and collaborative approaches to leadership in a global context.		R		G
Social Work	Social Work	SOWK 671: Social Policy	Explores social welfare policy in Canada and in a globalizing world, the current roles of social welfare policy, and the roles they should have.		R		G
Social Work	Social Work	SOWK 673: International Social Development	Examines issues in international social development. There will be an emphasis on analysis of the social forces and conditions giving rise to different models of social development, and on what each of these alternative models tends to produce in terms of social welfare policies and programs.		R		G
Social Work	Social Work	SOWK 697: Diversity, Oppression and Social Justice	Critical examination of the issues of diversity and the power relations that form common links among the experiences of oppression and marginalization in Canadian society.		R		G
Kinesology	Kinesology	KNES 339: Natural Environments, Wellness, and Health	An exploration of how physical activity in natural, outdoor environments leads to enhanced physical fitness, wellness, and health. Safe practices in these environments will be examined in conjunction with practices that help maintain the ecological integrity of natural and wild environments.		R	U	
University of Calgary Topics	University of Calgary Topics	UNIV 201: Global Challenges Inquiry I	Students will engage in inquiry-based learning to explore solutions to a complex, socially relevant problem using knowledge, evidence, and methods from multiple disciplines, under the guidance of University of Calgary experts. Examples of problems include poverty, water and food security, child health, racial conflict, and gender discrimination.	F		U	
University of Calgary Topics	University of Calgary Topics	UNIV 203: Global Challenge Inquiry II	Students will continue to engage in inquiry-based learning to explore solutions to a complex, socially relevant problem using knowledge, evidence, and methods from multiple disciplines, under the guidance of University of Calgary experts.	F		U	
University of Calgary Topics	University of Calgary Topics	UNIV 511.01: Topics in Sustainability - Introduction to Sustainable Development	511.01. Introduction to Sustainable Development	F		U	
University of Calgary Topics	University of Calgary Topics	UNIV 511.02: Topics in Sustainability - Theoretical Basis for Interdisciplinary Intervention & Design	511.02. Theoretical Basis for Interdisciplinary Intervention and Design	F			G
University of Calgary Topics	University of Calgary Topics	UNIV 611.01: Topics in Sustainability – Introduction to Sustainable Development	611.01. Introduction to Sustainable Development	F			G
University of Calgary Topics	University of Calgary Topics	UNIV 611.02: Topics in Sustainability - Theoretical Basis for Interdisciplinary Intervention & Design	611.02. Theoretical Basis for Interdisciplinary Intervention and Design	F			G
Sustainable Energy Development	Sustainable Energy Development (MSc)	SEDV 601: Energy Systems I: Non-Renewable Energy	Interactions between non-renewable energy resources and the environment; exploration, production and exploitation of energy resources, including conventional and unconventional oil and gas, coal, and nuclear; technical, economic and environmental and policy aspects of production transportation and use of non-renewable energy.	F			G
Sustainable Energy Development	Sustainable Energy Development (MSc)	SEDV 603: Energy Systems II: Renewable Energy	Renewable energy sources, such as: wind, hydro, solar photovoltaic, solar heat collection, geothermal, biomass, cogeneration; system level physical modelling; steady-state turbine operation; introductory thermodynamics; economic tools, such as levelized cost of energy analysis.	F			G
Sustainable Energy Development	Sustainable Energy Development (MSc)	SEDV 605: Ecology, Sustainable Development, and Indigenous Cultures	In-depth analysis of indigenous peoples and ecological sustainability in relation to energy development. Systems ecology, ecological economics, cultural anthropology, indigenous rights and ethics provide theoretical foundations for sustainable development in global context of indigenous peoples with primary focus on Canadian indigenous peoples. Historical and legal-political context addresses treaties, policy and land-use including duty to consult and accommodate with emphasis on reconciliation.	F			G
Sustainable Energy Development	Sustainable Energy Development (MSc)	SEDV 607: Water Pollution and its Impact on the Energy Sector	Water pollution, water chemistry, water and wastewater quality and quantities, conventional, non-conventional and emerging contaminants, water and wastewater treatment methods, water usage and reuse options, municipal and industrial water treatment, water energy nexus, water requirements and pollution as related to the energy sector.	F			G
Sustainable Energy Development	Sustainable Energy Development (MSc)	SEDV 609: Air Pollution and its Impact on the Energy Sector	Population growth and energy options; meteorological parameters, physical and chemical properties of the atmosphere; nature of pollutants present: anagenetic-made sources; stationary and mobile; generation, methods of control and effects of photochemical smog; global warming; particulates, acid rain gases, carbon monoxide, hydrocarbons and their emission control; pollution monitoring and instrumentation; environmental regulations; tail gas clean-up; health impacts; industrial site selection; pollutant dispersion.	F			G
Sustainable Energy Development	Sustainable Energy Development (MSc)	SEDV 611: Land Pollution and Waste Management in the Energy Sector	Waste management principles and effective practices in the development of energy projects. Causes and consequences of land pollution associated with energy production and management practices and technologies for prevention, mitigation and control of pollution.	F			G
Sustainable Energy Development	Sustainable Energy Development (MSc)	SEDV 615: Environmental Impact Assessment in the Energy Sector	Principles and professional practice of environmental impact assessment, with application to energy development projects.	F			G
Sustainable Energy Development	Sustainable Energy Development (MSc)	SEDV 621: Environmental Management Tools in the Energy Sector	Environmental management systems and issues are discussed as they relate to organizational and environmental impacts. Topics include: environmental management for both compliance and innovation; management processes including audits, development of indicators and reporting, green product development, risk management.	F			G

