

TRU Sustainability Courses Offered - 2014-2015

This document contains an inventory of all 'Sustainability Courses' and 'Courses That Include Sustainability' for both 'On-Campus' and 'Open Learning' sectors.

Please Note: ** Indicates a newly added courses

Sustainability Courses ('On-Campus')

ADVG 1010	The Adventure Tourism Industry This course offers an overview of the tourism industry and the adventure tourism sector. Upon completion of this course, students have a comprehensive understanding of the origins of tourism, the industry today, land management issues, future considerations, the guide's role, career paths, literature review, terminology, and definitions.
ADVG 2010	The Natural Environment This course studies the natural resource base upon which the adventure tourism industry depends; these include geographic features, mountain geomorphology, geology, fluviology, meteorology, ecology, flora and fauna species identification, nature interpretation and current environmental concerns.
ADVG 2830	International Expedition Planning and Leadership This course is concerned with the planning and leadership of international adventure expeditions. Aspects of expedition planning include identification and research of international expeditions; planning timelines and implementation schedules; permit acquisition; sponsorship; socio-political considerations; leadership; training; legal implications; food and equipment acquisitions; cargo shipping; and local ground handling. Students also explore cultural considerations surrounding guiding and leading expeditions in an international setting. Topics include examining the impact of international expeditions on culture, minimizing the cultural impact of international expeditions, cultural considerations of foreign guiding, and stewardship and global citizenship.
ADVG 4030	Contemporary Perspectives in the Eco and Adventure Industry This course is the study of contemporary issues pertaining to the management of eco and adventure tourism. Although topics may vary depending upon current issues and trends, it is expected that the course will examine the effect of socio-political changes to tourism, the commodification of eco tourism, adventure racing, sexual exploitation in tourism, and the philosophical implications of search and rescue and technology to the eco and adventure experience.
ADVG 4050	International Adventure Tourism Business** This course is intended to provide an overview of international adventure tourism business development and management. Topics will include development theory, globalization, factors that affect international business development, colonialism and foreign aid, international tourism finance, global trade in services, the affect of women's rights on production and development, and numerous case studies.
ADVG 4090	Nature and Community-based Development Students explore community-based adventure tourism, including policy, planning, and development. International tourism managers must understand sustainability; community development; how tourism is used to promote conservation; and how to involve local populations in the development decision-making process. While community-based tourism concepts are finding their way into North American tourism, this course concerns itself primarily with issues facing developing countries and lessons that may be brought to North American operations. Topics include tourism and community development; the creation of tourism opportunity and development strategies; the role of consultants and non-governmental organizations; sustainable tourism development; social impact assessment; community tourism assessment; proper tourism development; achieving global competitiveness; community-based tourism for conservation; and the importance of including women in community development. Students examine numerous case studies and applications.
ADVG 4100	Adventure Field School – International** This course is a 4-6 week field school to study adventure development, policy, planning, and operations in an international setting. Students use this field experience as a basis for the application of theoretical principles learned in the classroom to practical field work. The development and operation of international adventure and nature-based tourism requires extensive first-hand experience in an area. This course is intended to facilitate students' travel to an international region in order to study adventure and nature-based tourism product and business opportunities, and community development.
ADVG 4140	Community Capacity Building ** Students explore the socio-economic notion of nature-based activities and tourism as a mechanism for

	community development. While identifying and exploring possible community recreation and tourism opportunities, students analyze the benefits, costs (monetary and social), and facilitative models for ensuring community capacity building, towards sustainability and project buy-in.
ADVG 4200	Recreation & Tourism Management ** The theory and practice of managing natural resource based recreation and tourism. This course will consider natural resource based recreation and tourism from social, economic, business and resource management perspectives. It will provide an introduction to the foundations of recreation and tourism in modern society, including resource management impacts on recreation and tourism, principles of recreation systems planning, and administration and management of natural resource based recreation and tourism businesses. It includes extensive use of case studies and current issue topics.
AGSC 2200	Food Systems at a Local Level and Beyond Students are introduced to agriculture and food systems, focusing on the local level but including information on global systems. Topics of discussion include agriculture, local food production, food security and food policy, sustainability, commercialization, and globalization. Case studies and projects are used to help students apply concepts learned during lecture, and to develop critical thinking, problem solving, communication, and conflict resolution skills.
ANTH 3270	First Nations Natural Resource Management** A review of historical and contemporary issues shaping Aboriginal peoples' relationship to their lands and resources and the impact of governmental policies on this relationship. Topics will include the Indian Act, traditional aboriginal views of resource management, treaties, and analysis of current policies on resource management and aboriginal life.
ARCH 3260	Environmental Archaeology** Interdisciplinary data recovery and methods of analysis from geology, soil sciences, botany, zoology, chemistry, physics, and ecology have resulted in specialized sub-fields in archaeology, including zoo archaeology, paleo botany, raw material sourcing, geophysical and geomorphic analysis, paleo-environmental reconstruction, and seasonality studies. Students examine the methods and theories employed by specialists in these fields to reconstruct past environments and explore the relationships between humans and important environmental resources and variables.
BIOL 1040	Biology of the Environment Non-science students who have a keen interest in the environment focus on the underlying ecological principals that shape our world. They then proceed to evolution and the ecological diversity to which it leads. A consideration of the tremendous increase in human population growth leads students to identify both renewable and non-renewable resources, acid rain, climate change, toxins in the environment, and the biodiversity crisis. The course ends with a discussion on ecologically sustainable development. Labs and field trips enhance students' learning experience.
BIOL 1210	Principles of Biology 2 This course offers a survey of the kingdoms of life, while emphasizing their ecology and evolutionary relationships.
BIOL 2270	Field Ecology ** This course is an intensive, two-week field course and will examine the pieces, patterns, and processes present in regional landscapes. For immediate present, we foresee offering this course in Southern British Columbia, but the actual landscape may change depending upon the year. Within each landscape visited, the individual pieces (the flora and fauna) and the patterns they form will be identified in an intensive 2-week long field trip. As our understanding of the pieces and patterns develops, we will examine the climatic, geological and biotic processes determining patterns observed in the field. We will pay particular interest to the impact humans have had on the natural history of each landscape covering such topics as invasive species, habitat fragmentation, and global climate change
BIOL 3210	Microbial Ecology This course addresses the importance of microorganisms in nature and societies. The interrelationship between microorganisms, plants, animals and their habitats and the role of these relationships in the maintenance of ecological balance is emphasized.
BIOL 3430	Plants and People Students explore the human use of plants in the past, the present, and the future, including the origins, evolution and dispersal of plants important to humankind (such as food crops, herbs and spices, medicinal and drug plants, and ornamentals). The social and economic implications of biotechnology and the ecological impact of our current loss of plant biodiversity is also examined. BIOL 3430 is offered on alternate years.
BIOL 4160	Principles of Conservation Biology Students explore the theory and practice relating to the conservation of threatened organisms and their habitats. Topics include the genetics and demography of small and fragmented populations; global and local conservation problems; and case histories of the conservation of endangered animals and plants. The course includes two compulsory weekend field trips.
BIOL 4260	Plant Ecology Students examine the ecology of plants at an individual, population, and community scale. The

	ecological physiological constraints of being a plant is reviewed before exploring species interactions with the natural environment and with other species. Students also consider plant community patterns in time and space. Topics include issues in plant conservation, community attributes such as productivity and diversity, and the influence of scale and heterogeneity on sampling design and analysis. Field trips may occur on weekends. This course is offered in alternate years.
BIOL 4090	Field Methods in Terrestrial Ecology 3** Students participate in an intensive two-week exploration in the field methods used to study terrestrial ecosystems. The course is typically offered immediately after exams in the Winter semester (usually late April or early May). Students learn the field techniques needed for studies of terrestrial ecosystems and carry out individual projects of their own design. Facilities such as the Wells Gray Education and Research Centre are used and a fee is required to meet living expenses.
BIOL 4100	Field Methods in Marine Ecology** Students participate in an intensive two-week exploration in the field methods used to study marine ecosystems. The course is typically offered immediately after exams in the Winter semester (usually late April or early May). Students learn field and laboratory techniques for sampling, experimentation, and analysis of marine organisms and ecosystems, and carry out individual projects of their own design. Facilities such as the Bamfield Marine Station is utilized, and a fee is required to meet living expenses.
BUSN 6010	Ethics and Corporate Social Responsibility** Students become more effective decision makers by examining the meaning and role of ethics in the business environment, and the social responsibility of business organizations. Topics include the relationship between business and society; identifying stakeholders and issues; the theoretical basis of business ethics; business ethics in management and leadership; the concept of corporate social responsibility; corporate social responsibility in practice; regulating business; ownership and governance of the corporation; environmental and business responsibilities; globalization and business responsibilities; and ethics, responsibilities, and strategy.
CHEM 3010	Aqueous Environmental Chemistry Students are introduced to the properties and composition of natural waters. Topics include hydrologic cycle, water quality, partitioning, transport, chemical equilibria, pH, complexation, redox processes, and water treatment.
CHEM 3020	Atmospheric Environmental Chemistry This course is an introduction to structure, composition, and chemical processes occurring in the Earth's atmosphere. These include interactions with solar radiation, stratospheric ozone layer, photochemical smog, and acid rain.
CMNS 4220	Mountain Studies** Mountain Studies allows students the opportunity to engage in an interdisciplinary study of mountain environments, communities, resorts, activities, web presence, arts, sustainability, and destination experiences, with an emphasis on undergraduate research. Topics vary from year to year; potential areas of focus include mountain culture (literature, painting, film, photography, history, new media) and web-mapping with the provision of rich content; the development and sustainability of mountain national parks in Western Canada; mountain literature and art; comparative studies of the mountain resorts that ring TRU; mountains and participant-observer new media applications; and public relations and mountain resorts.
ECON 2430	Global and Canadian Economics Issues Students examine a variety of economic issues facing the Canadian and world economies. The topics discussed each semester vary and may include economic crisis, environmental challenges, 'big' business and multinational corporations, globalization, free trade, health care, education, poverty, and the economics of crime.
ECON 3410	Economics of Climate Change Students investigate the climatic changes resulting from global warming and the policy actions being taken to address these problems. Topics include an overview of the science and economics of climate change; the impact of climate change on growth and economic development; the economics of stabilization including efficiency, externalities, public goods, and environmental policy instruments; inter-temporal decisions and uncertainties about the impacts of climate change; the policy responses to mitigation and adaption and their cost; international collective action and its challenges; and prominent climate policy approaches, such as the United Nations Framework Convention and the Kyoto Protocol.
ECON 3690	Community Economic Development Students investigate methods for effectively using local community resources to enhance economic opportunities while improving social conditions in a sustainable way. Topics include the theoretical basis for community economic development (CED), analytical techniques used to assess communities, environmental sustainability objectives for community development, competing strategies of community development, financing development strategies, and CED activity in Canada and other nations.
ECON 3710	Environmental Economics

	Students apply the tools of microeconomic analysis to environmental issues. Topics include property rights and efficient resource use, market failure, the over-utilization of common pool resources, the Coase Theorem, non-market valuation techniques, government policies designed to cost-effectively control pollution, and real-world strategies for controlling pollution.
ECON 3730	Forestry Economics Students are introduced to the concepts and analytical techniques used in forestry economics and their application to forest management, conservation, and policy analysis. Topics include techniques for analyzing forestry investments; timber demand, supply, and pricing; valuation of non-marketed goods and services, such as recreation and wildlife habitat; land allocation and multiple use; forest management issues, such as planting, thinning, and optimal age of crop rotation; and regulatory issues, including allowable annual cut regulations, property rights, tenure, and taxes.
ECON 3740	Land Use Economics Students focus on land use issues with particular emphasis on government policies relating to the preservation and conservation of agricultural lands. Topics include rent theory; welfare measurement; property rights and externalities; project evaluation using cost-benefit and multiple accounts analysis; the economics of soil conservation; efficiency and equity in land use planning, including zoning changes; government land preservation and conservation policies, and agricultural subsidies; water use in agriculture; forest management; and multiple uses of public lands.
ECON 4720	Sustainable Economic Development Students examine theories and issues, internal and external challenges, and alternative policy options relating to sustainable economic development. Topics include a comparative analysis of the leading theories of economic growth, development, and sustainability; lack of economic growth, poverty, and income distribution; consequences of population growth and technological change; employment and migration, human capital, agriculture, and rural development; international trade and commercial policy, foreign investment, and aid; and global integration, economic transition, and environmental degradation.
ENSU 1000	Leadership in Environmental Sustainability** This one credit course is designed to recognize knowledge gained from existing courses and actions undertaken by students that contribute towards environmental sustainability competency through documented projects, community or TRU volunteer work, extra-curricular knowledge sharing, participation in environmental or social organizations, research papers, art work, architectural design, and relevant assignments in courses as it relates to environmental issues.
ENVS 5000	Environmental Sciences: Topics and Case Studies Students explore the current ideologies of the ecological, sociological, and economical foundations of environmental science through case studies. A joint application of scientific and social contexts is used to examine the sustainable management of natural resources, with a strong spatial component at local, regional and global scales. Communication skills are developed to facilitate this cross-disciplinary understanding. Primary literature, group discussions, and independent and group review assignments encourage students to focus on current local, regional, and international environmental issues.
ENVS 5480	Directed Studies in Environmental Science** Students undertake an investigation on a specific topic as agreed upon by the faculty member and the student.
EXPL 3000	Live Learn Lead: Global Engagement** This field school course is designed using an experiential model to integrate leadership and global volunteerism within a blended learning experience. Through face-to-face seminars, discussions and reflective activities, combined with an intensive team volunteer experience abroad - in collaboration with a partner non-government organization, students have the opportunity of developing global competencies and leadership skills needed to address global challenges in an ever-changing world. Through guided reflection students gain: a global cultural awareness and sensitivity; experiential learning and leadership competencies; a stronger understanding of NGO operations; and potential careers in international development.
GEOG 1100	Environmental Studies: Human Interaction with the Natural Environment** This course is an introduction to the environment, with emphasis on a geographical approach. Topics of study include: environmental worldviews; history of the environmental movement; ecosystems; energy principles; human population dynamics; patterns of resource use, environmental issues and environmental ethics.
GEOG 1110	World Regional Geography** This course applies the core concepts of geography to interpret both the variety and distinctiveness of places and regions, and to their relationships, connections, and integration. Students are introduced to the academic discipline of geography as well as its professional applications by explaining geographic approaches to social issues. Students develop an appreciation for geographic thinking, and a greater understanding of the complex modern world.
GEOG 2020	Weather, Climate and Global Environmental Change** This science laboratory course provides an introduction to: the basic principles and processes of

	meteorology and climatology; and the study of weather and climate. Topics include: the composition and structure of the atmosphere; solar radiation and the seasons; energy balances and temperature; atmospheric pressure and wind; atmospheric moisture and cloud development; precipitation; atmospheric circulation; air masses and fronts; thunderstorms and tornadoes; and cyclonic storms. In addition, students discuss climate classification systems, and examine the potential causes of past and predicted future global climates.
GEOG 2120	Geography of Urban and Regional Planning This course introduces the themes and challenges encountered in the field of Urban and Regional Planning, while recognizing the increasing interdisciplinary nature of this area of study. Students examine: urbanization as a historic and rapidly continuing process; the growth of functional regions and patterns of urban settlement; the dynamics of urban structure and land use; and critical planning issues that face developed and developing countries.
GEOG 2220	Regional Geography of Canada** The physical environment and cultural setting of Canada, with a particular focus on human use of the land as determined by its physical nature, is the basis for study of the regional geography of Canada. Emphasis is placed on a study of Canada east of the Rocky Mountains.
GEOG 2230	The Regional Geography of British Columbia and Yukon Students are introduced to the physical and human geography of British Columbia and examine settlement, resource development and transportation in the Western Cordillera. Topics involving the changing perception of rural British Columbia's landscape and environment are discussed.
GEOG 2400	Geographic Thought** This introductory geographic theory course provides students with a critical perspective on the nature and development of geographic knowledge and its application in the key sub disciplines of human geography, physical geography, and environmental studies.
GEOG 3040	Environmental Climatology and Meteorology In this science laboratory course, students examine: the principles and processes of surface and near-surface climatology and meteorology; energy and plant water balance concepts; vertical and horizontal air and vapour movements; microclimates, urban heat islands; the meteorology of atmospheric pollution; and the interrelationships among plants, soils, climates and the biosphere.
GEOG 3050	Physical Hydrology This physical geography course examines the physical processes that determine the quantitative importance and spatiotemporal variability associated with the occurrence, distribution and movement of water on or near the Earth's surface. In addition to a theoretical treatment of the subject, students are introduced to measurement techniques used in the field and to a variety of hydrologic models. Numerical problem solving exercises and field work are important components of the course.
GEOG 3100	Environment and Resources Students discuss concepts of environment and resource, and the role of physical geography in understanding the interaction of humans and the environment. This course also provides an introduction to the management of environment-resource systems.
GEOG 3200	Introduction to Cultural Geography Students explore the history and methods of cultural geography. Aspects of contemporary land uses, landscapes, and communities are considered in relation to traditions, values, economies, and technology.
GEOG 3210	Historical Geography of Urbanization** Students explore geographic perspectives on the growth of urban regions; pre-industrial cities, urban growth during industrialization, and anti-urban reaction.
GEOG 3630	The Geography of Resource Industries This course offers a geographical analysis of selected resource industries of importance to Canada. Each year a selection is made from the agriculture, forestry, fishing, mining, energy, and recreation sectors, and explored within international and national contexts.
GEOG 3650	Geography of Consumption ** This course examines consumption as a cultural and economic practice, how it has formed landscapes, and its impact on our growing understanding of ecosystems and social systems. It examines spatial patterns of purchasing and consuming goods and services, changing ideas about the landscape as a good and a service, and the ethical and practical questions raised by the social and environmental impact of increased consumption.
GEOG 3990	Special Topics in Geography and Environmental Studies ** This is a special topics course in geography. The subject matter varies from semester to semester depending upon the interest of faculty and students. Vectoring is determined as per policy ED-8-0.
GEOG 4100	Sustainable Rural Systems ** This course marries the subject areas of rural geography and sustainability in case study analyses of a country- for example, Japan, Canada, China, or Mexico-- or a global region for example, the Asia-Pacific or Africa -- depending upon instructor expertise. It examines the transformation of rural areas owing to urbanization, globalization and other social forces. The course examines subsequent problems, such as rural depopulation and the policies to keep these areas socially, economically, and

	ecologically sustainable.
GEOG 4230	Attitudes Toward the Environment Students examine the cultural attitudes that have influenced land use and environmental change, in the past and present.
GEOG 4480	Directed Studies in Geography and Environmental Studies ** This course is designed to allow fourth year students to undertake an investigation on a specific chosen topic, agreed upon by the faculty member and the student.
GEOG 4800	Environmental Issues and Policies Using a geographical analysis of environmental issues and policies, this course relates land use, hazards and resource allocation to changing demand, technology, institutions, policies, and social values. An emphasis is placed on issues and policies relevant to small cities and adjacent rural areas.
GEOG 4820	Urban Biophysical Environments Cities represent areas where biophysical processes are often markedly distinct from their rural counterparts. This physical geography course examines the climatology, hydrology, geomorphology, and biogeography of cities, and the impact cities have on biophysical processes at regional and global scales. Specific topics include: the urban heat island effect; urban hydrology; building architecture and wind; atmospheric contamination; urban forestry; and the urban area as an ecosystem. Students observe the biophysical processes of environmental examples drawn from Kamloops and comparative communities.
GEOL 2060	Introduction to Mineral Deposits, Exploration and Mining This course explores the formation, styles and types of mineral deposits, occurrences, exploration methods, mineral resources and reserves, types of mines, and prospecting methods. Topics include considerations of a social license to mine; social, economic, and environmental sustainability issues and solutions; environmental assessment, mine closure and reclamation. Case studies will be discussed.
GEOL 3030	Environmental Geochemistry** Students examine the complex relationship between environmental factors and the geochemical history of surface and subsurface rocks.
HLSC 3040	Environmental Change - Challenges for Health** This course introduces students to the most recent developments in the science of climate change and the resulting impact on the health of populations worldwide. Changes in disease risk and emerging diseases and conditions are reviewed. Since health care is one of the most wasteful systems in regard to its carbon footprint, various efforts to reduce greenhouse gas emissions are reviewed. Students discuss the effects of global warming and how it necessitates new approaches to health and new responses to the spreading of tropical diseases.
HORT 1500	Basic Horticulture This course introduces students to plant structure, growth and development. Topics to be covered include structure and function of plant parts, plant classification, nomenclature and identification, germination, photosynthesis and respiration, plant hormones and environmental effects on plant growth and development
LAWF 3840	Environmental Law** Students critically examine 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.
MNGT 3710	Business Ethics and Society Students explore the complex business environment and the relationships organizations have with each other, civil society, and the natural environment. Through this examination, students learn how critical ethical decision-making is to the successful management of any organization. Topics include elements of critical thinking, business ethics fundamentals, frameworks for ethical thinking, awareness of ethical pitfalls, ethical reasoning, ethical principles, drafting a code of ethics, illustrating an ethical decision-making process, applying ethical decision-making skills, ethical decision-making in the workplace, corporate social responsibility and sustainable development, and stakeholder theory
NRSC 1110	The Science and Management of Natural Resources Students are provided with an overview of current issues in the management of natural resources. This serves as an introductory core course in the Bachelor of Natural Resource Science program, however, it is tailored for all students with a general interest in natural resources. In addition to lectures and laboratory exercises, students consider how scientific inquiry and knowledge can be integrated with social, economic, and cultural values to develop management strategies. Topics of discussion include a diversity of resource issues, such as forestry, soils, rangeland, water, fisheries, wildlife, and entomology.
NRSC 2100	Forest Ecology and Silvics 1 The main objectives of this course are to facilitate students' learning of the complexities and interactions that make up forest ecosystems, and how this knowledge can be used in predicting forest

	ecosystem responses to both natural and human-induced disturbances. Upon completion, students have an appreciation of forest ecosystem structures and functions, and how these components interact; how forest ecosystems change over time, and the ecological effects of various forest management practices. Additional topics include the spatial variation in forest ecosystems, methods of describing these variations, the characteristics of biogeoclimatic zones in British Columbia, and the identification and interpretive use of indicator plant species in the description of forest ecosystems.
NRSC 2200	Forest Ecology and Silvics 2 Students examine the ecological and silvical characteristics of forest trees of Western Canada, with emphasis on ecological site assessment and applications of silvics in silviculture. This course also explores the identification and interpretive use of indicator plant species in the description of forest ecosystems, the soil and site features used in determining site quality, and the diagnostic procedures used in determining site quality.
NRSC 3200	Silviculture This course emphasizes silvicultural concepts and principles as they apply to forest stand and landscape level management. Specific topics include principles of forest tree improvement; seed handling; nursery practices and artificial regeneration; natural regeneration and stand tending practices (thinning, pruning, vegetation management, fertilization and site preparation). A variety of silviculture systems are discussed in relation to economics, wildlife, biodiversity, and sustainability. The laboratories are designed as both field exercises and indoor laboratory sections (including computer modeling). Several field trips offer students an opportunity to observe forest nursery operations, woodlot management, and forest operations.
NRSC 4020	Natural Resource Entomology Students are familiarized with significant entomology topics including the environmental and economic role of insects in forest ecosystems; the identification and basic biology of major groups of forest insects; behavioural ecology and population dynamics of major insect pests; an introduction to chemical ecology of insects; forest health and beneficial or pest insect balance; an introduction to management strategies for major forest insect pests; and the implications in context of the Forest Practices Code.
NRSC 4040	Wildlife Management and Conservation 1: Theory and Principle Students are introduced to the history, theory, and principles of wildlife conservation and management, with an emphasis on the scientific underpinnings of current conservation biology and wildlife management. Topics include island biogeography and reserve design, population viability analysis, principles of conservation genetics, introduced species, fragmentation, habitat loss, and the demography and extinction risk of small populations.
NRSC 4050	Wildlife Management and Conservation 2: Application and Practice Students build upon the theory and principles presented in NRSC 4040: Wildlife Management and Conservation 1, by further examining the application of scientific principles to the conservation of wildlife. Students also focus on the philosophy and human dimensions of wildlife conservation and management, particularly the need to balance multiple values in developing sustainable management planning. The course provides for the analysis and discussion of local and global case studies.
NRSC 4100	Fisheries Management This course is a study of fisheries management topics, including methods of quantitative stock assessment, fisheries regulations and policy, habitat restoration, and fish stocking. Students collect and measure fish in a local lake, and produce a quantitative stock assessment report for that fishery.
NRSC 4110	Watershed Management Students are introduced to the basic principles of wild land hydrology and watershed management, including the role of climate, physiography, and vegetation in watershed function; the effects of land use on streamflow quantity, timing and water quality; and the techniques used in monitoring and assessing the impacts of land management on the water resource.
NRSC 4140	Natural Resource Policy and Planning Students focus on land and resource use policies and laws, and their development and administration in British Columbia, particularly as affected by aboriginal rights and title. The course provides an overview of specific land and resource policies in British Columbia, illustrates the policy cycle through teaching the fundamentals of strategic land and resource use planning, and introduces the practice of policy analysis.
NRSC 4250	Tropical Field Studies in Natural Resources Students are introduced to the issues, approaches, and people involved with natural resource management in a tropical country. Topics generally include the ecological, social, economic and cultural aspects of natural resource management in the tropics. The scheduling and duration, and hence credit allotment, also varies with destination. A diverse study body is desirable; students from a variety of programs and disciplines are admissible. Class size is limited; potential students must submit an application to explain the relevance of the course to their own studies and interests. Students must consult with their program advisor(s) to determine whether they may receive credit for this course. For current details, including destination, content, cost, and application procedure, students should contact the instructor through the Department of Natural Resource Sciences.

NURS 3850	<p>Field Course in Global Health Development in Nicaragua**</p> <p>This course focuses on health development with a special emphasis on understanding cultural, social, economic, and political environments and their impact on health in a foreign country. Participants integrate global health and community development perspectives in an international nursing context. During a pre-departure week, the course participants attend several lectures that provide information about the country where the field school is located, theory on health development work and related project information. Participants travel to the chosen country and engage in health development projects for a two week period, drawing on principles of community development.</p>
PHIL 2160	<p>Technology and the Environment**</p> <p>Students examine what 'technology' is, the relationships and differences between technology and nature, and the role that technology plays in current environmental issues. The course raises the question of whether technology can help us find solutions to environmental crises, or if those problems are a direct result of seeing the world from a technological point of view.</p>
PHIL 3300	<p>Moral & Political Philosophy**</p> <p>Continuing from PHIL 2010 and PHIL 2210, students focus on rights and duties, political philosophy, and theories of legal and political obligation. Legal reasoning as it applies to society and the state captures another axis of analysis in this course. Topics may include seminal decisions by the Supreme Court of Canada; punishment; deterrence versus retributivism; justification of law making; majority rule versus minority rights; and human rights.</p>
PHIL 4350	<p>Environmental Ethics</p> <p>This course offers a study of moral issues arising in the context of human relationships to nature and to non-human living things. Principal topics include the issue of what constitutes moral standing, animal rights, obligations to future generations, the moral dimensions of problems of pollution, the extraction, production and use of hazardous materials, the depletion of natural resources, and the treatment of non-living things.</p>
PHYS 1010	<p>Physics for Future Leaders</p> <p>Students explore key concepts in physics, focusing on understanding rather than mathematics. Physics is introduced in the context of current events. Topics vary but may include terrorism and explosions, energy and the environment, earthquakes and tsunamis, radioactivity and medicine, satellites and gravity. Additional topics are discussed according to student interest and may include quantum physics and teleportation, relativity, and cosmology.</p>
PHYS 1020	<p>Energy: Physical, Environmental and Social Impact **</p> <p>Our use of energy affects everything from human health to the global climate. The objective of this course is to provide students with a qualitative understanding of the physical concepts surrounding the production, the storage, the conversion, and the consumption of various forms of energy in our modern society. As in PHYS 1010: Physics for Future Leaders, there is an emphasis on the understanding of the physical concepts rather than the mathematics. Topics include energy consumption, the Hubbert model, thermodynamics, environmental effects of fossil-fuels, climate change and human activity, the greenhouse effect, production of electricity, nuclear power and nuclear waste, renewable and green energy sources, fuel cells, and transportation issues.</p>
POLI 4710	<p>Communism and the Environment**</p> <p>This course will focus on the history and politics of communism and the environment. As such, it will explore environmental issues and policies in the Soviet Union, China and Cuba. Students will examine other related issues, such as the writings of Marx, Engels, Lenin, and others; ideology, political philosophy and the environment; and the role of communism and socialism in environmental movements, today. Students will also be asked to compare environmental practices in communist countries with those of capitalist countries.</p>
SOCI 2620	<p>Sociology of the Environment</p> <p>Students are introduced to several theories that sociologists use to explain the exploitation and despoiling of the natural environment. How and why society defines and uses natural resources is examined, in addition to how and why environmental degradation is defined as an issue while other degradation is not. Students learn that values, norms and definition change across time and place. Due to the nature of environmental issues and problems, students focus on global and Canadian issues.</p>
SOCI 3600	<p>Sociology & Natural Resources</p> <p>Sociological perspectives on property, resource development, resource communities, and resource industries. Social causes and consequences of change in the social organization (e.g. ownership and the labour force); and social policies (e.g. land use, property rights) in industries such as agriculture, fishing, forestry, and mining. The course may also include examination of social aspects of resource development in the Third World.</p>
SOCI 4730	<p>Global Social Change**</p> <p>Students examine the societal developments that gave rise to colonization and prepared the grounds for globalization. The issues facing ordinary people, from Asia, Africa and Latin America, are explored as a consequence of colonization and the imbalance of power in the world. Topics include dictatorship and human rights abuses; unequal economic development; struggles for decolonization and</p>

	independence; the status of women; environmental degradation; and the circumstances of ethnic minorities and aboriginal peoples. Students also discuss grass-roots social movements that have achieved transnational organization and that oppose the effects of global neocolonialism.
SOCW 2120	An Introduction to Social Welfare in Canada** Students are introduced to the Canadian welfare state and the response of the federal and provincial governments to poverty in Canada. An overview of the historical development of social security policies and programs in Canada is provided, and the influence of ideology on policy is discussed. The impact of policy on youth, women, older persons, and Aboriginal peoples is described. The human service/social worker's role in formulating and influencing policy is considered.
SOCW 3000	Canadian Social Policy** This course explores the socio-historical, economic, ideological, and institutional contexts for the development of social policy in Canada. Students discuss the policy making process, as well as the role of social policy in processes of inclusion, exclusion, marginalization, and oppression. A critical analysis of selected social policies is emphasized. Students must maintain a grade of C or better to successfully complete the course.
SOCW 4800	International Social Work Students are introduced to the field of international social work. Current global social welfare issues and challenges are critically explored and discussed, including global Indigenous issues and development approaches of different countries. Students complete an in-depth examination of the economic, political, social, and cultural dimensions of globalization. Implications for international social work and its social justice and anti-oppressive mandate are analyzed by addressing complex global issues such as disaster relief and humanitarian aid, human trafficking, and forced migration of people. The impact of political, social, economic, cultural, religious, and environmental influences on human rights, social and economic justice, social policies, and service delivery are explored. The role of social work in facilitating international social development is examined in local and global contexts.
TMGT 2610	Environmental Issues in the Tourism Industry The rapid growth of tourism on a global scale has resulted in significant negative environmental impacts, and there is increasing concern about the relationship between tourism and the environment, both natural and cultural. This course explores the challenges facing the tourism industry in attempting to create a balance between environmental and economic concerns. The rich history of the conservation movement and development of the national parks system provides a lens through which to understand the foundation of the North American tourism industry. In addition, students examine the current greening of the tourism industry.
TMGT 3010	Community and Cultural Issues in Tourism Students are introduced to the ways in which cultures meet and interact in tourism settings. Consideration is given to intercultural communications, cross-cultural issues, and challenges in meeting the needs of both the host community and the guest from a tourism perspective. Students explore the range and diversity of cultural narratives and place-based approaches for developing cultural tourism experiences.
TMGT 3040	Land Use Management and Tourism Students are introduced to the theory and practice of land use planning and management in western Canada. Students review various land use designations that are important to tourism development, the policies and processes for developing commercial recreation on crown land, and various management strategies aimed at optimizing the use of natural areas for quality recreation and tourism experiences.
TMGT 4040	Tourism and Sustainable Development Students examine the social, environmental, economic and political aspects of planning, developing, and sustaining tourism destinations. The major focus is on the benefits and impacts associated with tourism activities, and the importance of planning at the regional and community level.
TMGT 4160	Tourism in a Global Environment Students examine tourism and its dynamics from a global perspective. Specifically, students develop a thorough understanding of tourism as an economic, political, social, cultural and environmental force on the world stage, the impacts of this influence, and the strategies that tourism businesses can adopt to thrive in this environment.
WTTP 1700	Water Sources This course provides training in the development of new and existing water sources. Students focus on ground and surface water sources as they relate to the way drinking water is treated and distributed. Areas of study include: basic water supply hydrology; groundwater sources; surface water sources; emergency and alternate water sources; source water conservation; source water quality; and source water protection.
WTTP 1710	Water Treatment 1 This is a basic water treatment course which focusses on environmental applications and emphasizes past, present and future technologies related to water treatment. Topics explored in this course include: operator responsibilities; water sources; reservoir management; coagulation and flocculation processes; sedimentation; filtration; disinfection; corrosion control; and basic water treatment sampling procedures.

WTTP 1740	<p>Environmental Legislation, Safety and Communications**</p> <p>This course provides a foundation in three topic areas: legislation, safety and communications. Under the legislative section, students gain an understanding of the basic principles of environmental law and the legislative framework under which most water suppliers must legally operate. The safety section includes topics such as occupational health and safety as it applies to operations and management of water systems. The third section covers oral and written communication skills required for operators dealing with specific situations that arise through interactions with the public.</p>
WTTP 1850	<p>Water Treatment 2</p> <p>This course is a continuation of Water Treatment 1. Advanced topics in this course include: water softening; pH control; pre-oxidation; and dissolved metals removal. Students are provided an overview of chemical feed systems and chemical dosage calculations.</p>
WTTP 1760	<p>Introduction to Wastewater Utility**</p> <p>This course provides an introduction to the wastewater treatment processes, focusing on domestic and industrial sources as they relate to the way wastewater is collected, treated and disposed. Areas of study include: basic descriptions of what is wastewater; why we have to treat wastewater; the processes involved with treating wastewater; disposal of treat effluent; and the collection of wastewater from sources.</p>
WTTP 1860	<p>Wastewater Utility 1**</p> <p>This course illustrates the progression of wastewater leaving the wastewater collection system and entering into the treatment plant stage. Various forms of preliminary treatment are explained and students learn about stand alone treatment plants such as septic systems and how they operate. Students discuss what occurs after preliminary treatment has taken place in regards to primary treatment, sedimentation, sludge and sludge removal. Wastewater lagoon systems are discussed, the various laboratory principles of wastewater are introduced, and students identify lab procedures related to the wastewater treatment processes.</p>
WTTP 1870	<p>Wastewater Utility 2**</p> <p>This course provides an in-depth look into the wastewater treatment processes and components. Students focus on secondary and advanced wastewater treatment, wastewater sludge residual treatment and disposal. Areas of study include: descriptions of treatment processes and components for secondary treatment; advance treatment targets and process; residual sludge treatment management; and disposal.</p>
WTTP 2710	<p>Water Chemistry**</p> <p>This course provides an introduction to the study of water chemistry. The focus is on chemistry fundamentals that water operators require for problem analysis related to water treatment. Areas of study include: pH; alkalinity; and inorganic (metals and nonmetals, anion/cations) and organic (hydrocarbons, aromatics, detergents, pesticides) species found in water. Practical examples of removal and treatment of chemicals found in water are provided.</p>
WTTP 2730	<p>Filtration**</p> <p>This course provides students with the basic understanding of water filtration mechanisms and the methods of their classification. Topics include a historical overview of the development of water treatment and its impacts on water filtration today. The process of slow and rapid sand filtration and its operation, performance optimization, maintenance, and backwashing techniques are considered in detail. Alternative filtration processes, such as membranes, pressure sand, manganese green sand, activated carbon, pre-coat and sediment filtration are also explained, along with operations and maintenance procedures for each of the technologies.</p>
WTTP 2740	<p>Disinfection**</p> <p>The intent of this course is to cover the advanced concepts of drinking water disinfection and fluoridation. Topics include history of disinfection, causes of waterborne diseases and disinfection goals. Theory of disinfection, design, and operation as well as "disinfection by-products" are discussed. Technologies covered include chlorination, ozone, UV and alternate disinfection methods. Maintenance and calibration procedures used in monitoring equipment for both disinfection and fluoridation are also addressed.</p>
WTTP 2800	<p>Microbiology & Toxicology</p> <p>The goal of this course is to introduce students to unifying concepts of biology, microbiology and toxicology relating to water, and the most common and significant sources of infectious diseases caused by microbial contamination. Students explore the types of toxicants present in aquatic systems, their routes of exposure and modes of action, as well as their effects on human health and the environment.</p>
WTTP 2840	<p>Source Water Protection & Management**</p> <p>This course introduces students to source water challenges and issues. Students study how ground and surface source waters and their catchment areas can face threats and vulnerabilities that impact water safety and sustainability. Students learn to characterize source waters, delineate protection areas, and identify water quality and quantity hazards and vulnerabilities. Using this data, students develop risk assessments and response plans to mitigate hazards through water system design, operations, and watershed management.</p>

Grad Course	Thesis projects through the Master of Science in Environmental Science
TOTAL	104 courses

Sustainability Courses ('Open Learning')

APEC 1671	<p>Development Cost Charges</p> <p>This course is about developing a fair and transparent development cost charge (DCC) system for First Nation or local governments. It will focus on creating DCC systems under the authority of the First Nation Fiscal and Statistical Management Act (FSMA) and First Nation Tax Commission (FNTC) procedures and standards related to DCCs. It will present DCC best practices throughout Canada.</p>
BBUS 3031	<p>Business and Society</p> <p>In this course, students explore the role of primary and secondary stakeholders both within and associated with organizations. Students investigate ethics and social responsibility and look at where organizational activities fall within different continuums. Students also examine broad forces in business, society, and globalization, and look at how stakeholders can influence the destiny of both business and society.</p>
BBUS 4459	<p>Urban and Regional Economics</p> <p>This course examines economic forces influencing settlement patterns, growth, and other characteristics of towns, cities and regions. It provides a theoretical and historical basis for analyzing and predicting how urban areas evolve and how policies may affect patterns of growth and change. Topics include regional economics; economic development; growth policy; urban land use patterns; how land and housing markets function; how land use regulation affects these markets; urban environmental problems; urban transportation; and emerging spatial patterns.</p>
BBUS 4469	<p>Local Government Land Use Planning</p> <p>Focusing on small and mid-size communities, this course (UVIC ADMN 446) provides an overview of land use planning principles and regulations to local government administrators and staff. Topics include: history; regulatory framework in BC; rural and small town planning; growth management and regional planning; neighbourhood, local and community planning; zoning; main street, strip and commercial planning; residential planning; permits and other regulatory mechanisms; public information and participation; and environmental and heritage planning.</p>
BBUS 4701	<p>Business Policy and Strategy</p> <p>This course examines the components and processes of the strategic management model. Topics include strategic management, social responsibility, environmental and internal analysis and diagnosis, strategy selection, and implementation and evaluation.</p>
BIOL 3431	<p>Plants and People</p> <p>This course analyzes the importance of plants and the role plants have in the local and global community. Through online research and discussion-based activities, students learn about plant biology and how humans have impacted the plant world. Students evaluate the importance of plants as sources of bioactive chemicals and examine the importance of plants as foods, spices and dyes. Using a basic introduction to botany and plant physiology, students will consider how humans have used plants throughout history from cultural, societal, and industrial perspectives. Students also have the opportunity to explore the relationships between First Nations people and plants.</p>
ENVS 3991	<p>Environmental Studies: Sustainability</p> <p>This course is a Web seminar course offering special topics in environmental studies for in-depth-study. This upper-level course focuses on topics that are important to Canadians: the impacts of population and pollution on global climate change and the effects of exploiting our natural resources. Particular emphasis will be placed on water, energy, and biodiversity and on the attempts to balance the impact of our activities with the environment's capacity to absorb them. This course is suitable for learners completing degrees in a number of discipline areas including science, engineering, humanities, social science, business or general studies.</p>
FRST 3073	<p>Forest Harvesting.</p> <p>This course addresses the engineering, economic, and environmental factors associated with transportation and harvesting systems used in integrated forest resource management. These include: forest road design and location, geotechnical engineering, and drainage; harvest planning, locating, and scheduling ; and an international perspective on logging systems and their application in meeting silvicultural objectives. Forest harvesting is a specialized field within forestry, and professional competence within this field (especially road location and design) requires significant course work and an extended field internship in addition to the minimum standards identified here for the "general" forester.</p>
GEOG 1191	<p>Introduction to Human Geography 1: People and the Environment</p> <p>This course traces the development of present-day attitudes concerning the complex interrelation-</p>

	<p>ship between people and the environment. It looks at both "determinist" and "possibilist" views and focuses on such subjects as resource exploitation, population growth, and the impact of human activities on the environment.</p>
GEOG 1221	<p>Introduction to Physical Geography This course provides an opportunity for understanding part of the complex physical and biological environment in which human beings live. It introduces basic processes that influence the characteristics and spatial relationships of climate, water cycle and vegetation. The first part of the course examines the interactions of solar energy with the Earth's atmosphere and surface, and how atmospheric circulation, precipitation, and weather systems are generated. The second part of the course covers the cycling of water and other Earth resources within the living zone - the biosphere. It focuses on how these cycles, together with the flows of energy, influence the nature and distribution of ecosystems and vegetation. Throughout the course, students look at patterns of human activity that are in response to and have an effect upon environmental processes, and are asked to observe and interpret aspects of their local environment in light of what they have learned.</p>
GEOG 3991	<p>Global Climate Change and Regional Impacts This seminar course involves in-depth analysis in environmental studies, including receptive but critical examination of various perspectives on the issues. Students study how natural processes and human activity alter the composition of the ocean and atmosphere and trigger climate change at different temporal and spatial scales, globally and regionally. As a basis for their critical thinking and seminar discussion, students develop knowledge of systems and energy flow and atmospheric and ocean circulation; methodologies, records, and indicators of climate change; and the consequences of human activity within the context of natural climate change and the environment's capacity to absorb anthropogenic impacts.</p>
GEOL 2391	<p>Environmental Geology This course provides an examination of geological processes and material as they interact with human activities, environmental planning and management.</p>
HIST 3991	<p>Environmental History This is an online seminar course that examines the reciprocal relations between humans and non-human nature through a historiographic perspective. The course addresses the changing impact of human populations, their technology and their ideas on the physical environment, as well as how climate, topography, plants and animals have enabled, constrained, and altered the path of human societies. The course emphasizes the North American context.</p>
KINE 1409	<p>Contemporary Health Issues The course explores health from a holistic perspective, in which health is viewed as physical, psychological and social well-being. It considers genetics, environment, personal health behaviours (such as diet, exercise, stress management and drug use), socioeconomic status, health care delivery systems, and aging, with the intent to improve students' abilities to evaluate health information.</p>
POLI 1111	<p>Canadian Government and Politics This course investigates Canada's system of government and central questions in this country's political life. You will learn about our constitutional arrangements, the structure and processes of our national government, and the relationship between politics and society. You will explore such issues as Quebec's relationship with Canada and the political impact of the Charter of Rights and Freedoms. You will look into the future of democracy as you analyze the political effects of globalization, concentrated economic power, and the ideology of limited government.</p>
POLI 3279	<p>Globalization and the Canadian State This course examines the challenge that globalization poses for the Canadian political system. In an era of globalization, what scope remains for national politics? Does globalization lead to a deficit of democracy? Emphasis is placed on globalization's impact on the organization, activities and role of the Canadian state.</p>
POLI 3991	<p>Globalization and Its Discontents: The Politics of Economic Change This is a Web seminar course that examines three economic institutions that are central to understanding the processes referred to as "globalization": the World Bank, the International Monetary Fund, and the World Trade Organization. The course develops a framework of the key concepts in discussions of globalization before exploring the political origins and current social consequences of these organizations and examining related issues of global governance, corporate accountability, and global justice.</p>
SCDE 2019	<p>Introduction to Sustainable Community Development This course builds on understanding of strengths and weaknesses of conventional approaches to development; rationale for alternative approaches; varying interpretations of community and of development; and essential components for creating local economic development strategies. Sustainable community development is introduced as a framework to meet current social and economic needs, while ensuring adequate resources are available for future generations.</p>
SCDE 3019	<p>Sustainable Community Development Theory and Practice This course is a theoretical foundation for understanding sustainable development at the community</p>

	level, including an integrated approach to environmental, economic and social aspects of development. The course emphasizes economic and policy instruments and planning tools for engaging in and implementing sustainable community development.
SCDE 4019	Social Enterprise for Sustainable Community Development This course is an introduction to the theory and practice of social enterprise within a sustainable community development context, including the appropriate form of social enterprise for a particular purpose, essential elements of business planning, fundamental skills, such as market research and operating within a dynamic environment and organizational development and change.
SCDE 4039	Leadership in Sustainable Community Development This course is concerned with approaches sustainable community development leaders require as agents of change, including tackling complex community issues in addition to offering innovative tools for engaging others in a meaningful collaborative process.
SCDE 4109	Special Topics in Sustainable Community Development This course focuses on a specific topic within the field of sustainable community development not covered by regularly scheduled, required courses in the program.
WTTP 1171	Environmental Legislation This course introduces students to the basic principles of law with an emphasis on federal, provincial and municipal environmental legislation that impacts water treatment operations. The field of water treatment is governed by many regulations and as such, operators must have a clear understanding of their responsibilities. Other topics include the concepts of due diligence, liability, methods of compliance, tort and case law.
WTTP 1711	Water Treatment I This course emphasizes environmental applications focusing on past, present and future technologies concerned with water treatment. The major emphasis will cover: operator responsibilities, water sources, reservoir management, coagulation and flocculation processes, sedimentation, filtration, disinfection, corrosion control and basic water treatment sampling procedures.
WTTP 1851	Water Treatment II/WT This course is a continuation of Water Treatment 1. More advanced topics such as water softening, pH control, pre-oxidation and dissolved metals removal will be covered. An overview of chemical feed systems as well as chemical dosage calculations will also be covered.
WTTP 2341	Asset and Operations Management This course identifies the key assets and operations of a water company and introduces students to the qualities of an effective asset and operations management program in the water industry. In addition, the course examines the skills required for operations management, asset identification, designing an asset maintenance program, data acquisition and management and water conservation.
WTTP 2801	Microbiology and Toxicology The goal of this course is to introduce you to some of the unifying concepts of biology, microbiology and toxicology relating to water, the most common and significant source of infectious diseases caused by microbial contamination. The course will explore the types of toxicants present in aquatic systems, their routes of exposure and modes of action, as well as their effects on human health and the environment.
TOTAL	27 courses

Total of all Sustainability Courses ('On-Campus': 104, and 'Open Learning': 27): 131

Courses That Include Sustainability ('On-Campus')

ADVG 1020	Wilderness Travel Students review the theoretical and practical aspects of wilderness travel and are introduced to the organization of wilderness trips. Course content includes theory related to clothing and equipment, navigation, environmental concerns, travel techniques, route plans and trip planning and a field trip that includes navigation, route selection, group management, pacing, minimum impact camping, and hazard awareness. This course is the prerequisite for most other introductory level ADVG courses.
ADVG 1286	The Motorized Adventure Tourism Industry ** This course offers an overview of the fundamental skills, knowledge, and abilities to be successful in the motorized adventure tourism industry. Content includes exploration of the major industry leaders in B.C. and Canada, environmental impacts, and maintaining relations between motorized and other industry sectors and adventure sectors. Prerequisite: Participants must be enrolled in an Adventure Studies Department
ADVG 2140	International Adventure Tourism Business **

	<p>Conducting adventure business operations in the international environment brings complexities not found in a Canadian-only context. This course is intended to provide a background for operating trips and businesses in foreign countries. Course content includes a philosophy of international operations, product development and marketability, new product locations, managing, logistics, legal issues, environmental scans, assessing political and country risk, and joint venture operations.</p>
ADVG 2440	<p>Hiking Guide ** This certification course evaluates candidates according to standards established by the Association of Canadian Mountain Guides. This course is intended for guides who intend to lead clients on day-hikes and multi-day backpacking trips, in all types of hiking terrain, and without supervision. Candidates are expected to demonstrate advanced skills in route finding, advanced navigation, hazard management, camp management, trip planning leadership, environmental ethics, and client care in a multi-day scenario.</p>
AGSC 2100	<p>Introduction to Food Production Systems ** This course is a study of the fundamental concepts and principles of food production systems. Students survey a range of agricultural systems using global, North American, Canadian, and B.C. examples. Students discover how agriculture interacts with natural ecosystems and other land uses. Required field trips are an integral part of the course, and some weekend trips are mandatory.</p>
ANTH 2140	<p>Canadian Native Peoples An introduction to the present situation of Canada's Indians, Metis and Inuit, interpreted on the basis of contemporary and historical political, economic and cultural developments. Major topics include: the Indian Act, the reserve system, land claims, directed culture change, social consequences of paternalism.</p>
ANTH 2600	<p>Minorities in the Modern World An introduction to the anthropological study of minorities, with special reference to the present position of indigenous peoples around the world. Case studies from North America, Europe, Asia, Russia and Oceania illuminate the concepts of genocide, ethnocide, pluralism and multiculturalism.</p>
ANTH 3030	<p>The European Orient: Balkans, Russia and Eastern Europe An introduction to the anthropological study of minorities, with special reference to the present position of indigenous peoples around the world. Case studies from North America, Europe, Asia, Russia and Oceania illuminate the concepts of genocide, ethnocide, pluralism and multiculturalism.</p>
ANTH 4040	<p>People and Cultures of the North American Arctic This course introduces the North American sub-Arctic, Arctic, and High Arctic as discrete cultural regions. Surveying the historical, ecological and cultural diversity of the Arctic, this course reviews anthropological perspectives on the past and present lives and experiences of indigenous peoples who have made the high latitudes their home for millenia. This course documents patterns of social organisation among Inuit, Dene, and Metis with a secondary focus directed towards recent economic, political, and cultural trends in the region resulting from European contact, colonization, and political devolution.</p>
ANTH 4050	<p>Indian Reserve Communities This course will present Canadian reserve communities as distinct societies. A survey of status Indian reserve communities across Canada, this course chronicles the origin of the numbered reserve system historically by introducing the Indian Act, Registered Indians, and the numbered treaty process. It surveys the variety of reserve communities nationally, as well as documenting present-day rese</p>
APEC 1610	<p>Introduction to First Nation Taxation Students are introduced to First Nation taxation under the authority of the FMA. The course focuses on the economic and fiscal rationale of the FMA and the workings of the FMA. The FNTC and the other FMA institutions are discussed, including the First Nations Finance Authority (FNFA) and the First Nations Financial Management Board (FMB).</p>
APEC 1650	<p>Communications, Taxpayer Relations and Dispute Resolution Students discuss the establishment of mutually beneficial working relationships between First Nation tax authorities and taxpayers, focusing on interest based negotiations, communication templates for taxpayers and media, and best practices in taxpayer relations. The course also provides an overview of the informal and formal dispute resolution processes related to the Financial Management Association and the First Nation Tax Commission.</p>
APEC 1680	<p>Capital Infrastructure and Debenture Financing Students learn to use long term debenture financing as a tool for providing local government infrastructure. The course focuses on the regulatory requirements related to long-term debentures in the Financial Management Association (FMA), and emphasizes the legal, planning, and policy requirements established by First Nation Finance Authority, the First Nation Tax Commission and the First Nations Financial Management Board. Best practices are presented for economic, capital and financial planning, required by any First Nation interested in borrowing under the authority of the FMA.</p>
APEC 2650	<p>Investment Facilitation on First Nation Lands It is four to six times more expensive to facilitate investment on First Nation lands than it is off First Nation lands. This course investigates the source of these higher costs and how to reduce expenditure, while introducing the concept of transaction costs. Students discuss how private and public investment</p>

	work together to create economic growth, and focus on the interests of investors and what First Nations can do to facilitate investment on their lands. This course is of interest to both First Nations and interested investors.
BIOL 2160	Introductory Microbiology ** Students are introduced to the world of microorganisms, including bacteria, yeasts, fungi, and viruses, and the important roles they play in ecosystem health. Focusing on the principles and applications of microbiology, course topics include microbial physiology; growth and growth control; gene transfer; gene expression and environmental sensing; disease; and environmental biotechnologies such as wastewater treatment, bioremediation and industrial microbiology. Laboratory sessions provide hands-on training in cell culture techniques, applied microbiology, and manipulation of DNA.
BIOL 2170	Introduction to Ecology ** Ecology can be described as the scientific study of the natural world. Students are introduced to the basic principles of ecology, and examine relationships among organisms and their environment: from the level of the individual up through populations, communities and ecosystems.
BIOL 4020	Limnology ** This course offers theoretical and applied aspects of limnology. Students consider the ecology of inland water organisms in relation to the physical, chemical, and biological factors that affect their interactions and production. Note: This course is a cross-listing of NRSC 3260
BUSN 6050	Supply Chain Management ** Students acquire the knowledge and basic skills to effectively design a supply chain for an organization. Topics include an introduction to supply chain, the importance of information technology, supply chain slacks, demand management, supply management, inventory management, production management, transportation management, location analysis, sourcing decisions, supply chain strategy, and an overview of special types of supply chains such as green and humanitarian aid supply chains.
BUSN 6080	Strategic Management** Students examine the role of senior management in developing and implementing corporate strategy in a global context. They learn to analyze the firm's external and internal environment to identify and create competitive advantage, as well as to formulate, implement, and evaluate cross-functional decisions that directly affect the ability of an organization to achieve its stated objectives. Topics include an introduction to strategic management, measures of firm performance, analysis of the external and internal environments, business-level and corporate-level strategy, acquisition and restructuring strategies, international strategies, corporate governance, organizational structures and controls, strategic leadership, and corporate social responsibility and ethics.
CHEM 4070	Selected Topics in Physical and Environmental Chemistry ** This lecture course will consider in depth a selection of topics drawn from the areas of Physical Chemistry and Environmental Chemistry. The particular topics chosen may vary each time the course is offered.
CHEM 4090	Introductory Computational Chemistry** This is an introductory course on computational chemistry with a primary focus on the practical aspects of this subject. Students will be introduced to the methods currently used, the approximations involved and the ways in which these approximations can be systematically improved. Computational chemistry methods will be applied to the investigation of various chemical/environmental problems.
ECON 1900	Principles of Microeconomics Students examine the interactions between individuals and firms in various types of markets. Topics include a definition of economics; demand and supply analysis; consumer theory; production and cost; market structure including perfect competition, monopoly, monopolistic competition, and oligopoly; market efficiency and market failure; resource markets; and international trade.
ECON 2630	Aboriginal Economics Students investigate issues related to Aboriginal self-governance and economic development. Topics include the economic rationale for implementing aboriginal rights and titles; the economic explanation for income differences between First Nations and non-First Nations; the First Nations public sector; market failures and successes of First Nations; approaches to First Nations economic development; and government policy initiatives to improve First Nations economies, including a third order of government for aboriginal peoples.
ECON 2950	Intermediate Macroeconomics 1 Students complete an advanced, in-depth examination of economic behaviour at the aggregate level. Topics include the determination and distribution of output in the long run; the classical dichotomy and neutrality of money; the measurement, problems, and determinants of unemployment and inflation in the long run; and the role of capital accumulation, population growth, and technology in growth theory.
ENGL 4470	Studies in Aboriginal Literature (North American) This course focuses on the contemporary writing (in English) of Indigenous people in Canada and the United States. Students explore how aboriginal writers adapt oral strategies to writing and employ various techniques and devices to challenge and subvert colonial assumptions about genre, gender, class, and race.
ENVS 5020	Advanced Topics in Ecology and Evolution**

	This course involves: reading and discussion; methodology and data analysis; and critical evaluation, presentation and debate of cutting edge research in ecology and evolution. An emphasis is placed on understanding the integrative approach to environmental science.
FNCE 4130	Advanced Financial Management** Building on either FNCE 2120: Financial Management or FNCE 3120: Finance, students further develop their knowledge and skills in business finance. Topics include corporate governance and executive compensation, matching the maturities of assets and liabilities, pro forma financial statements, capital budgeting, incorporating risk in capital budgeting decisions, sustainable growth, sources of permanent financing, working capital management, capital structure and debt policy, and dividend policy.
GEOG 1000	Planet Earth: An Introduction to Earth System Science** Students are introduced to earth system science by examining the interactions among the atmosphere, biosphere, lithosphere, hydrosphere, and human activity. Topics include plate tectonics; earthquakes and tsunamis; volcanos; the rock cycle; mass wasting (including landslides); weathering; and soils. Glaciers, permafrost, and Karst landscapes (including caves) are explored, in addition to hydrology - the study of occurrence, distribution and movement of water at or near the surface of the earth. Laboratory instruction includes landform identification using topographic maps; coordinate systems (latitude and longitude, UTM); map scale; basic surveying, including Global Positioning Systems (GPS); and graphing. Students discuss the benefits of Geographic Information Systems (GIS) and remote sensing technologies
GEOG 1010	People, Places and Landscapes: Introducing Human Geography ** This course is an introduction to human geography. Topics covered include: cultural; historical; economic; political; urban; social; and regional geography. Basic geographic concepts and cartographic methods are examined. The spatial behavior of people, their cultural diversity, and the landscape manifestations of their activities are explored in a variety of settings. Case studies from developing and industrialized nations are used to illustrate the evolution from traditional to modern societies.
GEOG 2110	Geography of the Economic Landscape** A geographic view of economic activity is offered in this course. Students examine economic interrelationships, the character of various economic regions, and general spatial organization, on a local, regional and global scale.
GEOG 2120	Geography of Urban and Regional Planning** This course introduces the themes and challenges encountered in the field of Urban and Regional Planning, while recognizing the increasing interdisciplinary nature of this area of study. Students examine: urbanization as a historic and rapidly continuing process; the growth of functional regions and patterns of urban settlement; the dynamics of urban structure and land use; and critical planning issues that face developed and developing countries.
GEOG 3060	Groundwater Hydrology** This science course deals with distribution and movement of water in the phreatic zone. Topics covered include properties of aquifers, principles of groundwater flow, groundwater flow to wells, soil moisture and groundwater recharge, regional groundwater flow, groundwater chemistry and contamination, groundwater development and management, and groundwater modeling.
GEOG 3070	Biogeography This physical geography course examines the physical, biological and chemical processes and constraints that determine contemporary spatial and temporal patterns in life on Earth. In addition, historical patterns are examined with an emphasis placed on the impact plate tectonics and late Tertiary and Quaternary climatic changes had on plant and animal distributions. Other topics discussed in this course include mass extinctions, biodiversity, and the possible biogeographic consequences of anthropogenically induced global climatic change.
GEOG 3570	Introduction to Social and Behavioral Geography** Students study the development of social and behavioural geography, focusing on topics such as environmental perception and micro-geography, and approaching these topics from institutional and interactionist perspectives.
GEOG 4060	Advances in Hydrology This seminar course explores key advances in hydrological science with an emphasis on forest hydrology. The historical development of our current understanding of the physical processes involved in the movement and storage of water in vegetated environments is covered as are future research directions. In addition to physical processes, where appropriate, advances in measurement and modelling methodologies are also examined. Key topics covered include advances in our understanding of rainfall, snow, through fall and stem flow, evaporation and transpiration, infiltration, soil moisture redistribution, and hillslope hydrology processes. Additionally, the hydrologic impacts of forest harvesting, wildfire, insect infestations, and global climatic change will also be examined.
GEOG 4750	Advances in Geomatics** As a technology-based discipline, the field of geomatics is rapidly changing in response to technological advancements in remote sensing, computing hardware, wireless communication, programmatic abstractions, and spatiotemporal models. Through the reading of recently published articles and the replication of key results, this fourth year seminar class explores recent advances in the state-of-the-

	science of geomatics. Key topics include real-time access to environmental observations; free-and-open-source GIS; GIS-based decision support systems; Web-enablement; environmental data fusion; decentralized and cloud-based tools for geomatics.
GEOG 4810	<p>Geography of Small Cities**</p> <p>This course examines the economic, social, cultural, and environmental qualities of small cities and the issues and forces that affect them. Case studies are drawn from the local scene and from across North America.</p>
GEOG 4820	<p>Urban Biophysical Environments**</p> <p>Cities represent areas where biophysical processes are often markedly distinct from their rural counterparts. This physical geography course examines the climatology, hydrology, geomorphology, and biogeography of cities, and the impact cities have on biophysical processes at regional and global scales. Specific topics include: the urban heat island effect; urban hydrology; building architecture and wind; atmospheric contamination; urban forestry; and the urban area as an ecosystem. Students observe the biophysical processes of environmental examples drawn from Kamloops and comparative communities.</p>
GEOG 4850	<p>Geography of First Nations Issues in British Columbia</p> <p>This course offers an examination of the issues involved in the creation of new relationships that are evolving and inclusive of First Nations concerns in British Columbia. Students explore the past relationships between indigenous and nonindigenous peoples of the province, the legal principles and precedents in force, the present situation of ongoing negotiations, and an analysis of future possibilities. Land and resource agreements and disagreements are the focus of this course, as well as the mechanisms available for compromise and resolution.</p>
HIST 2020	<p>Native History of Canada</p> <p>Students explore the history of the Aboriginal peoples of what is now Canada. The course begins with pre-contact perspectives; however, emphasis is on the social, cultural, political, economic and military interactions between Aboriginal peoples and newcomers. Examples are drawn from all regions to reveal the breadth and variety of Aboriginal culture, history, and experience. Topics include Aboriginal involvement in the fur trade and later economic developments, the treaty-making process, and Aboriginal responses to government policy.</p>
HIST 3040	<p>The History of the Canadian Prairie West **</p> <p>This course examines the history of the Canadian Prairie West from pre-Aboriginal European contact to the modern era. Topics include an examination of the First Nations' traditional economic and social life, and their adaptation to the arrival of Europeans and the fur trade; the rise of the Métis and their changed economic and living conditions as a result of Canadian government policies; Euro-Canadian immigration and settlement; the Great War and the rise of nativism; the economic depression of the 1930s, as well as World War II and the modern West. Students investigate the myths versus the realities of 'cowboys and Indians', the ranching frontier, women, and Mounties</p>
HIST 3050	<p>British Columbia**</p> <p>This course explores the history of British Columbia from the beginnings of Aboriginal European contact through to the post-World War II era. It examines the social, economic, political, and cultural development of British Columbia, and situates the province within national and international context. Topics include Aboriginal-European relations, the fur trade, immigration, the resource economy, military engagements, social reform, gender issues, class relations, and political developments. Throughout the course, key debates in the historiography of British Columbia are emphasized.</p>
HIST 4050	<p>Topics in British Columbia History</p> <p>Students examine selected topics in the history of British Columbia. Topics may include race and racism, immigration, economic issues and development, social and cultural history, religion and society, postwar diversity and dissent, and/or political culture.</p>
HIST 4710	<p>Communism and the Environment**</p> <p>This course will focus on the history and politics of communism and the environment. As such, it will explore environmental issues and policies in the Soviet Union, China and Cuba. Students will examine other related issues, such as the writings of Marx, Engels, Lenin, and others; ideology, political philosophy and the environment; and the role of communism and socialism in environmental movements, today. Students will also be asked to compare environmental practices in communist countries with those of capitalist countries.</p>
HLSC 2550	<p>Health Science 3: Introduction to Pathophysiology</p> <p>The major emphasis of this course is to gain a foundational knowledge of the concepts related to human pathophysiology. The course examines the presentation and pathogenesis of health challenges across the life span including genetics, nutrition, immunology, and environmental impacts on health. Topics are closely coordinated with the practice and nursing courses.</p>
HLSC 2650	<p>Health Science 4: Pathophysiology</p> <p>The major emphasis of this course is to build on concepts related to human pathophysiology introduced in Health Science 3 but with increasing complexity. This course examines the presentation and pathogenesis of health challenges across the life span including genetics, nutrition, immunology, and environmental impacts on health. Topics are closely coordinated with the practice and nursing courses.</p>

HLSC 3550	<p>Health Science 5: Advanced Pathophysiology</p> <p>This course builds on concepts introduced in Health Science 3 and 4 with an emphasis on multisystem or highly complex health challenges. The presentation and pathogenesis of health challenges across the lifespan are examined, including a major focus on immunology, and where applicable, genetics, nutrition, and environmental impacts on health. Topics are closely coordinated with practice and the health courses.</p>
HUMS 1770	<p>Introduction to First Nations Studies and Human Service Practicum</p> <p>Students examine the historical and continuing process of colonization in Canada, and the resulting societal, political, linguistic, spiritual, and cultural impacts that are challenging First Nations people today. The development of cultural understanding and the beginning of culturally competent practice occur in this course. Additional topics include self-government, cultural healing and empowerment, and human service practice in First Nations communities</p>
IBUS 3510	<p>International Business</p> <p>Students examine globalization and the steps managers take to establish or expand operations in international markets. They explore the influence of forces such as culture, economics, politics, and geography on management decision making. Topics include globalization; national differences in political economy; political economy and economic development; differences in culture; ethics in international business; international trade theory; the political economy of international trade; foreign direct investment; regional economic integration; the foreign exchange market; international business strategy; organization of international business; entry strategy and strategic alliances; global production, outsourcing and logistics; global marketing and research and development.</p>
LAWF 3700	<p>Public Lands and Natural Resources Law**</p> <p>This course will provide an opportunity for students to consider in detail the protection, exploitation, and management of Crown-owned lands and renewable and nonrenewable natural resources (other than oil and gas, and including forestry, range land, minerals, wildlife, fisheries, wilderness, recreational, and heritage). Students discuss the nature of public ownership, public and private values, economic approaches, and interjurisdictional management.</p>
LAWF 3450	<p>International Trade Law</p> <p>Students analyze the public law framework for international trade, with an emphasis on the World Trade Organization and North American Free Trade Agreement. Topics include national treatment; most-favoured nation treatment; anti-dumping and countervail actions; and dispute resolution.</p>
LAWF 3650	<p>Unjust Enrichment</p> <p>Students assess unjust enrichment as an independent source of legal obligation. Topics include elements of the right of action and defenses; restitution as the remedy, with particular emphasis on personal versus proprietary restitution; and disgorgement of wrongful gain, distinguished from restitution using breach of fiduciary obligation as the primary example.</p>
LAWF 3660	<p>Health Law</p> <p>Students evaluate the regulation, structure, and financing of the health care system. Topics include licensing and regulation of health care professionals (including medical malpractice claims as a form of regulation); regulation of biomedical research; approval processes for drugs, complementary therapies, and medical devices; resource allocation and access to health care; market considerations; privatization and deregulation of health care; and consent and confidentiality.</p>
LAWF 3680	<p>Immigration and Refugee Law</p> <p>Students explore the basic principles, policies, and procedures governing immigration and refugee law. Topics include refugee law and status; selection and admission of immigrants; inadmissible and 16 non-removable classes; exceptions and the minister's permits; and appeals and judicial review in the Federal Court including Charter issues.</p>
LAWF 3730	<p>Human Rights Law</p> <p>This course is a survey of national and provincial human rights laws and practice as distinct from the Charter of Rights and Freedoms, and an introduction to the main international and transnational human rights instruments and standards.</p>
LAWF 3780	<p>Selected Topics: Bioethics</p> <p>Students focus on a variety of subject areas, either doctrinal or theoretical.</p>
LAWF 3820	<p>Family Law</p> <p>This course is an analysis of the legal principles affecting the rights and responsibilities of the members of the family. Topics include constitutional issues, marriage, marriage contracts, common law marriage, child neglect and abuse, custody and access, guardianship, adoption, separation, divorce, nullity, spousal and child maintenance, and matrimonial property. Emphasis is placed on the process of family law and the appropriate role for lawyers and judges.</p>
LAWF 3890	<p>Aboriginal Law</p> <p>Students explore 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 fiduciary duty of the Crown; constitutional entrenchment of Aboriginal and treaty rights; application of provincial laws; the Indian Act; land surrenders; and exemptions from seizure and taxation.</p>

LAWF 3910	<p>Civil Procedure</p> <p>This course is a detailed examination of issues which arise in the progress of a civil action from first meeting the client through to judgment in the Supreme Court of British Columbia. The British Columbia Rules of Court are set in the context of the values underlying them. What sort of civil litigation system do we want? What sort of system do we in fact have? Particular attention is paid to the linkages between the apparently discrete components of the process as set out in the Rules, linkages at the levels of both the underlying values and the actual practice. The use of procedures under the Rules to anticipate and resolve evidence problems that might arise at trial is emphasized. Interprovincial and international aspects of the civil litigation process are also considered.</p>
LAWF 3930	<p>Ethical Lawyering</p> <p>This course is an introduction to issues of legal ethics and professional responsibility. Students become competent at ethical reasoning in the context of legal practice. To achieve this goal, the course covers selected topics in the 'law of lawyering' (for example, the Law Society of British Columbia's Code of Professional Conduct), but also addresses the general question of what it means to be an ethical lawyer. Students are expected to develop their awareness of the various moral values underlying the legal system, and to practice how to weigh and apply those values, and the law of lawyering, to ethical problems. Selected topics relating to the regulation of lawyers' ethics are also addressed.</p>
NAST 0500	<p>Introduction to First Nations Studies</p> <p>No Course Description Available</p>
NAST 0600	<p>An Overview of Major Issues in First Nations Studies</p> <p>No Course Description Available</p>
NRSC 2000	<p>Introduction to the Study of Soils</p> <p>Students investigate the physical, chemical, and biological properties of soils. Topics include soil formation, classification, use, and conservation. Students focus on forest soils for this course.</p>
NRSC 4130	<p>Fire Ecology and Management</p> <p>Students develop a solid understanding of the importance of fire to ecosystems, communities, species, and human society. The first part of the course is devoted to understanding fire and how it interacts with the abiotic and biotic environment. Next, the focus shifts to the importance of fire from a historical, social, and political context. Students explore the theory, principles, tools, and organization of fire management, particularly as it applies to British Columbia and other regions of Canada. The main goal of this course is to increase awareness of the role of fire in ecosystems.</p>
NURS 1730	<p>Health and Healing 1: Living Health</p> <p>This course is an introduction to the meaning of health, including personal health, family health, community health, and societal health. Participants examine significant theoretical and conceptual frameworks of health including health promotion, primary health care, prevention and determinants of health. By reflecting on personal experiences, participants have the opportunity to identify personal resources and challenges that impact health as well as recognize the diversity of beliefs, values and perceptions of health held by others. Opportunities to learn basic health assessment skills are included.</p>
NURS 1830	<p>Health and Healing 2: Health Indicators</p> <p>Building on NURS 1730: Health and Healing 1, this course focuses on individual, family and community health assessment. Participants have opportunities to explore and critique various theoretical and conceptual frameworks in relation to health assessment, including early childhood development, family development, healthy aging and community development. The concept of assessment within the context of decision making is explored. Opportunities to learn basic health assessment skills are included in this course.</p>
NURS 3500	<p>Health 4: Health Promotion and Community Empowerment</p> <p>This course focuses on community as client from a health promotion perspective. The underlying principles of health promotion, including the social determinants of health, participation, capacity, and empowerment, are emphasized. Community development as a pattern of community health promotion practice is explored.</p>
NURS 4300	<p>Health and Professional Growth: Nurses Influencing Change</p> <p>This course explores the avenues for nurses to provide leadership, influence, create and manage change for the promotion of health for individuals, families, groups and communities within the context of society and the world. Emphasis is placed on the leadership roles of the nurse within practice contexts. The role of the nurse within the current and evolving Canadian health care system is analyzed, including considerations of the impact of global trends and issues, and issues facing nurses in the current work environment. Collaborative and ethical approaches for working within institutional philosophies and frameworks are explored.</p>
OEEED 4450	<p>Environmental Interpretation and Natural History **</p> <p>This course provides a base of knowledge about the natural history of Western Canada and its interpretation. Course experiences expose students to the natural communities within British Columbia with the intent of, as Aldo Leopold suggests, allowing us to see that the land is a community to which we belong and more than just a commodity or nice backdrop. Emphasis is placed upon the creation of experiential interpretive interactions.</p>
OEEED 4480	<p>Wilderness Travel and Navigation**</p>

	In this course, students explore the theoretical and practical aspects of wilderness travel and navigation. Theoretical topics include appropriate clothing and equipment, navigation, environmental considerations, travel techniques, route plans, and trip planning. The course includes a backpack trip that focuses on navigation, route selection, group management, and pacing, minimum impact camping and hazard awareness
PHED 1000	Biomechanics: The Analysis of Performance in Individual Sports** This course is an examination of the role of analysis in developing effective biomechanically correct individual sport performance. Skill analysis, error detection, error correction, and the application of sport science principles are included with an introduction to the appreciation of movement patterns in sport.
PHED 1100	Basketball** This course focuses on industrial and coaching techniques associated with the sport. The development of fundamental individual and team skills are an integral part of the course. Offensive and defensive skills and strategies are also central to the course. Each student is provided an opportunity to learn how to instruct and coach other students in the skills, as well as learn the specific skills related to basketball.
PHED 1120	Outdoor Activities** Students are introduced to a variety of outdoor pursuits like cross country skiing, kayaking, hiking, survival and snowshoeing. Due to the varying levels of risk associated with outdoor activities, participants are required to sign the Department of Physical Educations' informed consent.
PHED 1140	Aquatics ** This course emphasizes the knowledge and skills associated with aquatic activity. Water safety, principles of buoyancy and water activities, stroke analysis and development are a major focus for the semester. Students are provided an opportunity to work toward a number of senior swimming levels.
PHED 1160	Soccer** This course focuses on instructional and coaching techniques associated with soccer. The development of fundamental individual and team skills are an integral part of the course. Offensive and defensive skills and strategies are central to the course. Each student is provided an opportunity to learn how to instruct/coach other students in the skills as well as learn the specific skills related to soccer.
PHED 1190	Volleyball ** This course focuses on instructional and coaching techniques associated with volleyball. The development of fundamental individual and team skills are an integral part of the course. Offensive and defensive skills and strategies are central to the course. Each student is provided an opportunity to learn how to instruct/coach other students in the skills as well as learn the specific skills related to volleyball.
PHED 1230	Conditioning Students are instructed in the basic principles for health and skill-related fitness. The course provides a basic understanding of the physiological basis for conditioning programs applicable to competitive sport. A discussion of fitness assessment is also a focus in this course
PHED 1240	Golf** This course focuses on instructional and coaching techniques associated with the sport. The development and analysis of fundamental individual skills is an integral part of the course. Each student is provided an opportunity to learn how to instruct and coach other students in the skills, as well as learn the specific skills related to golf.
PHED 1280	Games Contest & Relays** Individual, pairs, teams and group activities are taught in this course. Each student is required to invent and teach an activity, with the focus on teaching, and consider strategies to make incremental and rule changes for each. This course is an excellent preparation for students wishing to become teachers and recreationalists.
PHED 2000	The Analysis of Performance of Team Games, Activities and Sports from Pedagogical and Coaching Perspectives** This course includes an examination and introduction of the structure, analysis and instruction of team activities, games and performance. Selected team sports are used as models of analysis. Topics include the study of the common elements in team sports, pedagogical theories on instruction of games, and an examination of analysis methods and procedures.
PHED 2100	An Introduction to the Study of Sport** This course examines the nature and development of sport through an analysis of historical, academic and popular literature.
PHED 2130	Sport in Canadian Society** This course offers a historical and theoretical analysis of sport in Canadian Society. Students develop an awareness of the role played by physical education and sport in society, and examine the societal changes that influence sport development.
PHED 2140	Psychology of Sport and Physical Activity** Students discuss psychological theories and research related to sport and health-related physical activity. Topics include socialization for participation, motivation, stress, psychological limits, aggression, competition and co-operation, audience effects, leadership, role of the coach and group cohesion, ethical behaviours, motivation, and aspirations.
PHED 2150	Exercise Physiology

	Students are introduced to the basic components of physiology as they apply to health, fitness and exercise. An examination of the acute and chronic effects of physical activity on the functions of the human body (metabolic, cardiovascular, respiratory, muscular) through lecture and laboratory experiences is emphasized.
PHED 2210	The Dynamics of Motor Skill Acquisition** This course provides an introduction to the examination of motor skill acquisition and the variables which influence the learning and performance of motor skills. Theoretical models on motor learning are introduced and discussed from a pedagogical perspective.
PHED 3000	Service and Learning Project** This course provides Physical Education Teacher Candidates with an orientation to physical education in elementary schools, and an opportunity to link on-campus instruction with teaching experiences in the school setting.
PHED 3450	Contemporary Issues in Health and Physical Activity This course helps identify and address contemporary lifestyles, associated behaviours, and major health concerns in present-day society. Techniques and strategies used to make positive lifestyle changes are studied and discussed in addition to the responsibility of the consumer.
PHED 3650	Coaching Pre-Adolescent Students** This course provides practical and theoretical experience in dealing with pre-adolescent students in the school sports setting. The course incorporates 1 hour per week of classroom teaching with 2 hours per week of practical coaching in elementary schools, or similar sport settings.
PHED 3660	Advanced Movement Education** Students explore human movement from a broad range of perspectives. Educational gymnastics, dance, movement, and games are analyzed from a multi-disciplinary approach with regard to instruction to school-aged children
PHED 3840	Physical Growth & Motor Development** Students examine the physical growth and motor development throughout the lifespan, with particular reference to the effects of physical activity on growth, development and health. Developmental differences in motor ability are studied.
PHED 4350	Fitness Assessment and Exercise Prescription The emphasis of this course is on exercise prescription and testing, for the healthy adult population and for special populations or persons with a disability. Students' laboratory work is focused primarily on the exercise testing aspect of the course.
PHIL 2210	Contemporary Moral Issues** Students examine contemporary moral issues, such as abortion; euthanasia; capital punishment; environmental ethics; business ethics; pornography and censorship; treatment of the mentally ill; patients' rights; and the ethics of warfare. Classical theories of ethics are examined and applied to contemporary problems.
PHIL 2310	Health Care Ethics This course examines the ethical role of the health care provider within the Canadian health care system. Students critically assess a selection of ethically problematic situations that routinely challenge health care providers. The topical issues considered in this course include the relationship among health care providers; care of the elderly; genetic counselling; resource allocation; care of those diagnosed mentally ill; and the ethics of transplantation. These issues are taken up in light of our exploration of moral theory, common ethical principles, and methodologies arising from interdisciplinary bioethics.
PHIL 4300	Philosophy of Law** This course includes various topics in law from the basic 'What is law?' to specific issues in law, such as 'What are rights?' Of primary importance to the philosophy of law are the relations between legal rules and the rules of ethics and custom; the difference between law and mere coercion; the social and ethical foundation of law and legitimacy; the limits of law and the state; citizens' rights against the state and one another; and the norms of our legal system.
PHIL 4330	Biomedical Ethics Students investigate various ethical issues related to the health sciences, especially in medicine, and consider these issues concretely and in relation to general ethical theory. The topics discussed in this course include abortion, death and euthanasia, genetic engineering, behavior modification, treatment of the insane, right to treatment, experimentation on human beings and animals, and the relationship between professionals and their patients, subjects or clients. A background in philosophy is not required.
PHIL 4920	Special Topics in Ethics** This course is an in-depth critical investigation of a particular ethical issue (such as abortion, capital punishment, or war), a particular ethical school (such as Deontology, Virtue Ethics, Utilitarianism) or a particular ethicist (such as Sedgwick, J.S. Mill, Feinberg). Topics may change from year to year.
POLI 1110	The Government and Politics of Canada Students are introduced to the main processes, structures and institutions of Canadian politics and government, including the Constitution, social cleavages, the Prime Minister and cabinet, parliament, political parties and ideologies, federalism and the structure of power
POLI 2230	Canadian Government 2: Public Administration and Public Policy**

	Students focus on the structure of government and the output side of the political system. Topics include the analysis of the structure of government in Canada, the executive, the evolution of policy-making structures and styles, the contemporary policy-making process, and the Canadian bureaucracy.
POLI 2600	International Politics This course is an analysis of the relations between states. Topics discussed in this course may include the evolution of international systems, East-West and North-South issues, the techniques of wielding international influence (through diplomacy, propaganda, foreign aid, subversion, and war), and the sources and nature of international conflict and cooperation.
POLI 3100	Local Government in Canada** This course is an introduction to local government in Canada and the contemporary issues facing municipalities. The themes discussed in this course include local government powers and responsibilities, community planning, fiscal and investment issues, and elections and community participation.
POLI 3520	Politics of Developing Nations** Students examine the problems of economic development, social change and democratization in the Developing World from a political perspective. The themes discussed in this course include colonialism, decolonization, relations between developed - developing nations, and political theories of development.
PSYC 3250	Community Psychology** This is a survey course designed to introduce students to various topics in community psychology. Topics include research methods and social change and intervention strategies within various community settings, such as the legal and justice system, the health care system, the mental health care system, and the educational system.
SOCI 1110	Introduction to Sociology 1 Students are introduced to the core concepts of the discipline of sociology by examining key concepts (such as culture, socialization, social interaction, social roles, and educational issues) that allow us to locate ourselves within society. Students also explore theoretical perspectives within sociology and the fundamentals of research methods, including how sociologists gather information about society.
SOCI 1210	Introduction to Sociology 2 In this second half of Introduction to Sociology, students are introduced to such topics as crime and deviance, social control, large scale organizations, principal institutions such as religion, politics, and economy. Students also critically examine the impact of social structure, such as race and ethnicity, social stratification, and gender relations, on individual's lives
SOCI 2100	Canadian Social Issues** This course offers a descriptive and analytic survey of features in Canadian society as a basis for understanding current social issues. These features include demographic characteristics, class structure, ethnicity, and regional variation
SOCI 2260	Medical Sociology Students focus on the social factors which influence help seeking and illness behaviour, as well as the nature and organization of Canada's health care system. The main purpose of this course is to illustrate that health and illness are not entirely individual phenomena, but that the cause, distribution, and consequences of injury and illness are at least partly the product of social, economic, and political factors. Topics include policy and delivery of health care; interaction between health care providers and patients; occupational health and safety; environment, work and illness; health care and the elderly; and inequality and health care.
SOCI 4600	Globalization** Students examine the origins, nature, and impact of globalization in the modern world. Links between nations, regions, and peoples are increasing at an unprecedented rate. New technologies make possible previously unimaginable forms of interdependence, but the consequences of these changes are not uniform. The impacts vary from region to region. Students explore how people from different nations may view globalization, and consider how groups work to ensure that globalization contributes to desirable outcomes in local contexts.
SOCW 3100	Aboriginal Life Cycles** This course utilizes seven interconnected circles to represent the life cycles of creation, birth and childhood, youth, women, men, elders, and Spirit World. Students examine stages of development and learning through these life cycles, in social and cultural contexts. This course seeks to create understanding and knowledge of Indigenous people through differing ways of knowing, being, seeing, and doing.
SOCW 3110	Aboriginal Perspectives on Social Policy** Students inquire into the process of decolonization as it relates to social policy, and explore and analyze historical Canadian policies and legislation and their implications for Aboriginal people today. Students critique and analyze the efficacy of existing policies, and create a framework to interpret and develop effective policies for Aboriginal peoples.
SOCW 3330	International Field Studies** This course offers a two-week international study experience in a selected country. Students explore the political, economic, cultural, and social conditions of their selected country, including globalization and

	its effects on citizens, social welfare policy and practice, community development strategies, and the marginalization and oppression of groups. Activities involve presentations and seminars by international leaders, professionals, and residents, as well as visits to a range of community sites and organizations.
SOCW 3540	First Nation Issues and Human Services Students critically examine the historical process of colonization in Canada, the resulting barriers embedded in policy and practice, and alternative ways of viewing the social psychological position of First Nations people in Canadian society. Contemporary issues and the movement toward self-determination are discussed in relation to social work theory and practice. Students must maintain a grade of C or better to successfully complete the course.
SOCW 3550	Human Development The objectives of this course are to introduce students to concepts and models of how human behaviour is acquired, maintained, and modified, and to promote an understanding of normal human development as a knowledge base for practice with individuals, families, and groups in a rural context.
SOCW 3570	Social Work, Law, and Social Policy** This course provides a basic introduction to legal issues and an examination of the social impact of legislation and policy. Students develop a beginning knowledge base in areas of law that are particularly relevant to social work practice.
SOCW 4000	Policy in the Human Services** Students are provided with an introduction to the main organizational structures of, and stages in, the social policy making process in Canada. The course aims to strengthen students' skills in the analysis of policies and programs in Canadian human services; to critically reflect on different ideologies and theories through which the welfare state has been examined in various countries; and to develop an appreciation of the interdisciplinary nature of social policy as a field of academic and applied activity.
SOCW 4040	Ethical Practice in Aboriginal Communities Students focus specifically on ethical considerations and decision making when working in Aboriginal communities. The course examines codes of ethics in the social work profession, Aboriginal codes of ethics, and mainstream theoretical aspects of ethical practices. Students are also provided an opportunity to engage in an exploration of integrated, personal, and ethical practices that are culturally based through validation and revitalization of Aboriginal codes of ethics.
SOCW 4520	Educating for Social Change** Students focus on the use of education as a strategy for individual and social change through the concept of education as the practice of freedom, and as a process of social transformation through conscientization. Principles and practices of adult education are examined for their application in social work as vehicles for empowerment and change. Students present workshops, plays, or web programs to develop the specific skills and knowledge for planning and delivering educational programs. Students further explore feminist, Aboriginal, and anti-oppression perspectives.
SOCW 4540	Aboriginal Decolonizing Social Work Practice Students examine social workers' roles and responsibilities in working with diverse Aboriginal peoples such as First Nations, Inuit, Metis, and on and off reserve peoples. The concept and process of decolonization is introduced and connected to contemporary stories, community social work program initiatives, and practices of Aboriginal peoples. This course utilizes a gendered Aboriginal perspective and explores strategies for reconciliation, building relationships between Aboriginal and non-Aboriginal peoples, and practices within the social work profession.
WTTP 2720	Advanced Coagulation and Particle Removal** This course is a continuation of Water Treatment 2 in which coagulation in general terms is introduced. This course takes an in-depth look at coagulation and particle removal. Topics discussed include: the advanced principles of coagulation; emerging technologies; jar testing; and clarification methods and equipment. The course aims to provide operators with information that will improve their ability to assess conditions in the water treatment plant and make decisions to ensure the smooth operation of their treatment process.
TOTAL	118 courses

Courses That Include Sustainability ('Open Learning')

ANTH 1019	Introduction to Anthropology This course is an introduction to the study of human social and cultural life from an anthropological perspective. It explores the scope and nature of the discipline of anthropology through study of selected cases drawn from both technologically simple communities and complex modern industrial societies.
ANTH 2019	Anthropology in Contemporary Life This course, Anthropology of Contemporary Life, provides an introduction to the anthropological

	perspective as applied to the organization of everyday life in contemporary settings. Positivist, interpretive and critical interpretive approaches to the analysis of social actions, identities and values as enacted in space and time are covered.
APEC 1611	Introduction to First Nation Taxation This introductory level course is intended to help First Nations tax administrators, and others interested in working in this field, implement the legal and institutional framework needed for improving the First Nation investment climate, thus ensuring prosperity on First Nation lands. Students are given some historical background into the First Nation property taxation system and introduced to the First Nations Fiscal and Statistical Management Act (FSMA), the First Nation Tax Commission and the FSMA institutions which support First Nation communities.
APEC 2701	Economic Feasibility and Impact Analysis on First Nation Lands No Course Description Available
APEC 2651	Investment Facilitation on First Nation Lands No Course Description Available
APEC 2641	Residential and Commercial Development on First Nation Lands No Course Description Available
BBUS 3215	Business Process Re-engineering No Course Description Available
BBUS 3471	Consumer Behaviour This course introduces students to the influence that consumer behaviour has on marketing activities. Students will apply theoretical concepts to marketing strategies and decision making. Topics include consumer and marketing segments, environmental influences, individual determinants, decision processes, and information research and evaluation.
BBUS 3511	International Business This course examines world trade and the processes that business managers go through in order to establish or expand operations into international markets. Students learn the terminology of international business, and examine the influence of forces such as culture, economics, politics, and geography on business and markets. Students are also introduced to international organizations including the World Bank, the International Development Association, the World Trade Organization, the International Monetary Fund, and develop a Canadian perspective on international business and trade issues.
BBUS 4099	Leading and Managing in the Non-Profit Sector This course provides an overview of management in Canada's non-profit and voluntary sector. Students examine the size, scope, structure, functions, value bases, and uniqueness of the non-profit sector, plus the differences among the non-profit, public and private sectors. Topics include: leadership, board governance, strategic analysis, volunteer management and partnering. Students will analyze how management concepts, models, principles and techniques have validity as applied in the context of non-profit and voluntary sector organizations.
BBUS 4229	Ethical Public Management No Course Description Available
BBUS 4479	Strategic Planning and Implementation This course Strategic Planning and Project Management, examines the strategic planning processes and how strategic goals can be implemented in public sector organizations. Strategic planning topics include: stakeholder analysis; developing mission, values and vision statement; environmental scanning; transforming strategic plans into policies and programs; management tactics; and assessing organizational performance. Implementation topics include: deploying resources; quality control; strategic communication; budgeting; team building; problem solving; progress assessment; completion; and evaluation.
BIOL 1213	Principles of Biology II This course is designed for biology or science majors. It is a survey course of the kingdoms of life emphasizing their ecology and evolutionary relationships.
BIOL 3021	Community and Ecosystem Ecology This course introduces the fundamental principles of the science of ecology and gives a basic understanding of ecosystems and communities. Major topics discussed include the historical development of ecology as a science, physiological ecology, nutrient cycling, ecosystem theory, community energetics, aquatic ecosystems, processes that organize communities, the biogeoclimatic zones of BC, and biogeochemical cycles. Human ecology and emerging insights into managing ecosystems are also discussed.

BUSN 5041	<p>Global Economics</p> <p>This course provides students with a coherent theoretical framework within which the performance of an economy can be analyzed. Topics include overview of macroeconomics; measurement of income, prices and unemployment; national income determination; money, banks and central bank; the IS-LM model; financial market and economic instability; government budget, debt, and limitations of fiscal policy; international trade, exchange rate and macroeconomic policy; aggregate demand and aggregate supply; inflation; stabilization policies and the theory of economic growth.</p>
BUSN 6051	<p>Supply Chain Management</p> <p>This course provides students with the knowledge and basic skills required to effectively manage and design a supply chain. Topics include introduction to supply chain, importance of information technology, supply chain slacks, demand management, supply management, inventory management, production management, transportation management, location analysis, sourcing decisions, supply chain strategy and overview of special types of supply chains such as green and humanitarian aid supply chains.</p>
BUSN 6031	<p>International Business</p> <p>This course is designed to introduce the basic concepts of international business and competition from a manager's perspective. Topics include country differences in political economy, the cultural environment, ethics in international business, international trade theories, the political economy of international trade, foreign direct investment, regional economic integration, the foreign exchange market, the global monetary system, global strategy, global marketing and R&D, and global human resource management.</p>
CMNS 1309	<p>Communications and Social Change</p> <p>This course is an introduction to the role of mass communication (radio, television, telecommunications and the press) in Canadian society. This course is a requirement for a major or minor in communication.</p>
CONV 1031	<p>Celebrating Community and Culture</p> <p>The course is designed to explore how communities and cultures within these communities can be attracted to and successfully included in special events. Consideration is given to cross cultural issues and challenges of creating "authentic" experiences while respecting the local environment and traditions of the people who live there.</p>
ECON 2631	<p>Issues in Aboriginal Economics</p> <p>This course is designed to provide an overview of Canada. Typical issues covered are: (1) the economic rationale for implementing Aboriginal rights and title; (2) the economic feasibility of a third order of government for Aboriginal peoples; (3) the economic reasons for the income differences between First Nations and non-First Nations; and (4) market failures and successes within First Nations. This course will benefit students interested in Aboriginal issues, working with First Nations, and international trade or business ventures where Aboriginal interests may be involved.</p>
EVNR 5039	<p>Restoration Ecology</p> <p>No Course Description Available</p>
ENVR 5049	<p>Invasive Species and Novel Ecosystems</p> <p>No Course Description Available</p>
GEOG 2221	<p>Regional Geography of Canada</p> <p>This course examines the physical, human and economic geography of Canada in a regional context. It focuses on the many interconnections and relationships between the different regions, between different areas in the regions, and between cities and the rural areas in each region. It also explores the distribution patterns of people, cultural groups, and economic activities to illustrate how the regions are part of larger interconnected systems (e.g. Canada, North America, or the Pacific Rim). The course is designed to promote an understanding of the similarities and differences between different areas across Canada and to develop students' skills in recognizing and analyzing the salient geographical features of those regions and the country as a whole.</p>
GEOG 2649	<p>Canadian Cities</p> <p>This course provides a systematic introduction to urbanization in Canada. Topics addressed include Canadian urbanization as compared with other nations, especially the United States; metropolitan centres; resource towns; and the internal structure of cities.</p>
GEOG 3129	<p>Geography of Natural Hazards</p> <p>This course is an introduction to the occurrence and origin of natural hazards such as volcanic eruptions, landslides, etc. Interaction between the relevant natural processes and society will be examined, as well as prediction of natural events and the amelioration of the effects of such events within different cultural contexts.</p>
GEOL 1011	<p>Introduction to Geoscience</p> <p>This is a non-lab course that studies the nature of the Earth and its development through time. It examines the Earth's origins and composition, in addition to volcanoes, earthquakes, and development of the landscape over time by such processes as weathering, mass wasting, rivers, glaciers, wind and waves.</p>
GEOL 2391	<p>Environmental Geology</p>

	This course provides an examination of geological processes and material as they interact with human activities, environmental planning and management.
GEOL 1111	<p>Introduction to Earth Science</p> <p>This is a lab course that studies the nature of the Earth and its development through time. It examines the Earth's origins and composition, in addition to volcanoes, earthquakes, and development of the landscape over time by such processes as weathering, mass wasting, rivers, glaciers, wind and waves. The lab component of the course has a focus on identification and understanding of minerals and rocks, and on the interpretation of geological features from topographic maps.</p>
HART 4879	<p>Heritage Resource Management</p> <p>This course provides an intensive examination of the ways in which staff and volunteers are managed in cultural organizations, with particular emphasis on museum and heritage agencies, and stresses integrated, planned approaches to human resource development. Topics include: organizational dynamics; leadership and decision making; board/staff relations; policy development; position descriptions; recruitment; performance planning; communications; legal considerations; and ethics and professionalism.</p>
HART 4929	<p>Building Community Relationships</p> <p>This course examines the strong, sustained and mutually beneficial relationships with communities are critical to museums, heritage agencies and cultural organizations that seek relevant, positive and socially responsible roles in society. This course explores the complex factors that are reshaping relationships with communities and addresses methods of defining community characteristics and needs; potential community roles and relationships with cultural organizations; and strategies for creating and maintaining relationships with diverse groups.</p>
HART 4909	<p>Managing Cultural Organizations</p> <p>This course is an intensive study of the application of management theory and practice in cultural organizations, with particular emphasis on: characteristics of non-profit cultural organizations; governance and leadership; establishing mission goals and objectives; roles of executive and artistic directors; policy development and implementation; personnel management and team building; financial management; strategic and operational planning; information management; public relations; marketing; volunteer development; and ethical and legal issues.</p>
HLTH 4021	<p>Health Policy</p> <p>This seminar style online course will introduce you to concepts, elements, policy analysis processes and outcomes of public policy making in general and health policy making in particular. You will use foundational knowledge on public policy analysis and apply this knowledge to Canadian health policy issues. As a health care professional, you will be able to use your knowledge of health policy and determine how this knowledge of policy analysis might apply in your health care workplace. This course will not only help you develop your critical thinking, literature search, and critiquing skills but also help you develop knowledge of Canada's evolving health care system in response to economic, cultural, technological, political, ideological, and globalization factors and forces. More specifically, the course will help you experience the whole public policy process as you apply the foundational knowledge on public policy making to a current major health policy issue in your province or territory. You will also get the opportunity to participate in a simulated policy community as you apply your policy analysis knowledge to a major current health care policy issue in Canada.</p>
KINE 1439	<p>Exercise: Health and Performance</p> <p>The course introduces the student to exercise physiology and focuses on personal exercise prescription to improve aerobic capacity, muscular strength and endurance and flexibility. Topics such as athletic conditioning (e.g. speed and power training), the effects of nutritional and environmental factors on exercise and the role of exercise in weight control and stress management, are also considered.</p>
KINE 2129	<p>Food and Society</p> <p>The course examines the relationship between society and the food we eat by evaluating how cultural, social and economic forces interact to influence health and nutritional status. Attention is given to cultures in British Columbia. Impact of national policies and marketing on food choice are discussed.</p>
NURS 3429	<p>Health and Healing VI: Global Health Issues</p> <p>This course (UVIC NURS 342) studies complex chronic and episodic global health challenges and issues. Emphasis is placed on the role of the nurse as care provider, community organizer, facilitator, educator and advocate within the context of the global society and the changing health care environment. Participants examine emerging health issues and trends further to develop their understanding of nursing practice.</p>
NURS 4849	<p>Nursing with Aboriginal Peoples in Canada</p> <p>This course studies complex chronic and episodic global health challenges and issues. Emphasis is placed on the role of the nurse as care provider, community organizer, facilitator, educator and advocate within the context of the global society and the changing health care environment. Participants examine emerging health issues and trends further to develop their understanding of</p>

	nursing practice.
SOCI 1009	<p>Perspectives on Canadian Society</p> <p>This course is an examination of Canadian society from the perspective of the social sciences - an introduction both to the nature of Canadian society and to the use of sociological and anthropological concepts applied to the analysis of modern societies in general. This course is meant to appeal to those who specifically wish to expand their knowledge of Canadian society and also to those who may be considering further work in sociology and anthropology. Topics considered include class structure, the nature of Canada's population, regional variation, gender relations, multiculturalism and Native issues.</p>
SOCI 3169	<p>Tourism and Social Policy</p> <p>This course offers an examination of tourism from the perspectives of sociology and anthropology, focusing primarily upon the social and cultural impacts of tourism and the social policy implications of tourism development in different societies.</p>
WTTP 1191	<p>Communication</p> <p>This course introduces learners to some best practices in community relations and provides some practical information for improving communication skills. Good communication skills are important in building a good relationship within the community and in ensuring water utility plants have the financial support required for optimal performance. Topics include how to: establish good community relations; format regular business correspondence; deliver presentations; communicate with the media; and document procedures and plans.</p>
WTTP 1301	<p>Major Process Equipment</p> <p>Prior to filtration, raw water supplied to a treatment facility is often conditioned by the addition of chemicals. These chemicals modify the physical and chemical characteristics of the water. They also modify the nature of the organic and inorganic materials in solution or suspension. This course describes the equipment used to achieve the initial mixing of chemicals with the process water stream. It also describes the equipment used to flocculate coagulants within the process.</p>
WTTP 1701	<p>Water Sources</p> <p>This course provides training in the development of new and existing water sources. It focuses on ground and surface water sources as they relate to the way drinking water is treated and distributed. Areas of study include basic water supply hydrology, groundwater sources, surface water sources, emergency and alternate water sources, source water conservation, source water quality and source water protection.</p>
WTTP 1291	<p>Moving Water</p> <p>A water treatment process operator must be fully familiar with process water flows from their origin to their destination. Process waters include the main process water flow, chemical solutions, wastewaters and other fluids, including gases. This course looks at the movement of the main process water flow through a treatment facility and the equipment used to control the flow.</p>
WTTP 1311	<p>Secondary Process Equipment</p> <p>A water treatment process operator must be fully familiar with the secondary flows that feed air, chemical solutions and emergency power in support of the main process water treatment. This course looks at these systems and the equipment used in secondary processes such as air handling, chemical feeding and standby power systems. It also reviews management of wastewater and solids from the primary process trains and the building systems which support the treatment facilities. Finally, students review how records should be organized and kept.</p>
WTTP 2131	<p>The History, Mechanisms, and Classifications of Filters</p> <p>This course provides students with a basic understanding of water filtration mechanisms, concepts, equations and the various methods of classifying filtration systems. Topics include a historical overview of the development of water treatment in Europe and North America and its impacts on water filtration today. In addition, the mechanisms governing filtration are covered along with concepts in fluid dynamics and the equations used. Finally, the media properties, filtration classifications and river, slow sand and precoat or cake filtration are discussed.</p>
WTTP 2051	<p>Introduction to Water Chemistry</p> <p>This course provides the fundamentals of chemistry as it applies to the water industry. The intent is to lay the foundation so operators can understand more advanced theories involving chemical reactions in water. The topics will include the theory behind pH, alkalinity and titrations. These topics are supported by concepts such as chemical equations, equilibriums, acid base theory and buffering capacity.</p>
WTTP 2061	<p>Inorganic Species in Water</p> <p>The focus of this course is on the study of inorganic species (metals and non-metals) that are found in water and wastewater. Topics include identification and removal techniques of inorganic species in treatment systems. Basic terminology, reactions and equation analysis are also covered.</p>
WTTP 2071	<p>Organic Species in Water</p> <p>The focus of this course is on the organic content as it applies to the water and wastewater industries.</p>

	Topics include identification, analysis and treatment techniques related to organic compounds. The discussions include the effects of naturally occurring and human made organics in water.
WTPP 2171	Basic Principles of Disinfection This course is designed to cover the basic principles of water disinfection. Topics will include history of disinfection, causes of waterborne diseases and disinfection goals. Basic properties and uses of chlorine and disinfection by-products will also be discussed.
TOTAL	48 courses

Total of all Sustainability Courses ('On-Campus' and 'Open Learning'): 131

Total of all Courses That Include Sustainability ('On-Campus': 118, and 'Open Learning': 48): 166

Total Courses: 297

References

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