MEMORANDUM

April 2, 2014

TO: The University of Winnipeg Senate

FROM: Academic Working Group on Sustainability

SUBJECT: Update on sustainability content inventory in curriculum

The Academic Working Group on Sustainability¹ has been tasked with determining a way of better capturing information about sustainability content in the University's teaching and research.

The immediate purpose of this exercise is to meet the reporting requirements of STARS² (Sustainability Tracking, Assessment and Reporting System). The exercise also creates a directory of courses with sustainability content students can easily access and provides an overview of the diversity of approaches to, and conceptions of, sustainability found throughout university departments.

In June of 2013, the Working Group provided a report to Senate that outlined a two phase approach to this effort:

Phase I: Adopt working definitions of 'sustainability in the curriculum' and of 'sustainability in research'. Complete an inventory of sustainability-focused and sustainability-related courses and of current sustainability research as defined in May 2013 memo (attached here for reference).

Phase II: Develop and clarify the "sustainable course delivery" and "skills and aptitudes required for a societal transition to sustainability" elements of definition of "Sustainability in the Curriculum" (attached here for reference).

The first phase of this process – the development of an inventory of sustainability-focused and sustainability-related courses - was undertaken over the 2013/2014 academic year. No major work was done on elements of the second proposed phase over this academic year.

After an initial review of the course calendar, individual departments were contacted and asked to identify courses that included sustainability content. To date, 39 out of 46 departments have responded

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¹ Members during the 2013/2014 academic year: Devin Latimer (Chemistry) Don Metz (Education) Alan Diduck (Environmental Studies & Science), Royden Loewen (History) Michael Dudley (Library) Andrée Forest (UWSA) Alana Lajoie-O'Malley (Campus Sustainability Office).

² STARS (https://stars.aashe.org/) is quickly emerging as the standard North-American campus sustainability benchmarking and reporting tool. It provides an external method of measuring the University's sustainability performance and a measure of transparency and accountability to our sustainability efforts. It also helps us understand how we are performing relative to other North American universities and colleges.

to this request, while it is hoped that the majority of the remaining departments will respond in the coming weeks. The inventory as it currently exists is included as an attachment here.

The Academic Working Group on Sustainability will reconvene in September 2014 to consider strategies for maintaining this inventory, to consider possible next steps related to the inventory, and to consider the issues assigned to the second phase of this exercise.

MEMORANDUM

May 23, 2013

TO: The University of Winnipeg Senate

FROM: Academic Working Group on Sustainability

SUBJECT: Sustainability content inventory in curriculum and research

The Academic Working Group on Sustainability¹ has been tasked with determining a way of better capturing information about sustainability content in the University's teaching and research. The immediate purpose of this exercise is to meet the reporting requirements of STARS² (Sustainability Tracking, Assessment and Reporting System); however, the Working Group has identified the need to increase the scope of UWinnipeg's exercise beyond STARS requirements.

The Working Group is currently proposing a two phase process to meet its mandate, and is presenting it here for information and discussion at Senate:

<u>Phase I:</u> Adopt the proposed definitions of 'sustainability in the curriculum' and of 'sustainability in research'. Complete an inventory of sustainability-focused and sustainability-related courses and of current sustainability research as defined below.

In this phase, the focus will be on collecting information about the <u>content</u> of courses (i.e. the subject matter being taught/ researched). Other issues related to 'sustainability in the curriculum' (i.e. more sustainable teaching methods and/or course delivery) will be considered in Phase II.

The purpose of this phase is to establish the basic framework and data required by the STARS reporting process. The Working Group proposes the following definitions:

DEFINITION OF SUSTAINABILITY

Sustainability refers to the capacity of human systems to thrive while maintaining and restoring ecosystem health and conserving Earth's natural resources. It implies the intent to

¹ Members during the 2012/2013 academic year: Devin Latimer (Chemistry) Kirit Patel (International Development Studies) Don Metz (Education) Allison Surtees (Classics) Mati Dubrovinsky (Economics, fall term only) Alan Diduck (Environmental Studies & Science), Michael Dudley (Library) Alana Lajoie-O'Malley (Campus Sustainability Office) Liz Williams (Campus Sustainability Office).

² STARS (https://stars.aashe.org/) is quickly emerging as the standard North-American campus sustainability benchmarking and reporting tool. It provides an external method of measuring the University's sustainability performance and a measure of transparency and accountability to our sustainability efforts. It also helps us understand how we are performing relative to other North American universities and colleges.

meet equitably the needs of the present without compromising the ability of future generations to meet their own needs.

SUSTAINABILITY IN THE CURRICULUM

Sustainability in the curriculum refers to learning at The University of Winnipeg that: (1) is either sustainability focused or sustainability related; (2) uses sustainable course delivery methods; and (3) teaches skills and aptitudes required for a societal transition to sustainability.

The Working Group wishes to emphasize that in Phase 1, only the first (1) element of the three (3) part definition of 'Sustainability in the Curriculum' is being addressed.

A **sustainability-focused course** is a course that considers as its central theme society, the economy, and the environment within the context of the academic study of sustainability.

A **sustainability-related course** is a course that considers society and/or the economy and/or the environment within the context of the academic study of sustainability in a portion of the course (i.e. a module).

In both cases, the term "sustainability" must be explicitly and meaningfully used in the course.

SUSTAINABILITY RESEARCH

Sustainability research focuses on a key relevant principle (such as social equity or environmental stewardship); addresses a major challenge (such as climate change or poverty); or furthers our understanding of the interconnectedness of societal, economic and environmental challenges.

The Campus Sustainability Office (CSO) will be responsible for developing the method for completing the inventory, while the Committee will advise the CSO in this process. The target completion date for this inventory will be February 15, 2014.

Phase II: Develop and clarify the "sustainable course delivery" and "skills and aptitudes required for a societal transition to sustainability" elements of definition of "Sustainability in the Curriculum," with the aim of bringing a proposed framework to Senate by the end of the 2013/2014 academic year. Timelines for an inventory of these elements of "Sustainability in the Curriculum" will be proposed at this time.

Introductory Anthropology	Department	Course #	Description
	Anthropology	1001	Components on adaptive strategies, cultural ecology, traditional ecological knowledge and carrying capacity, especially among foraging, horticultural anagricultural societies (past and present).
Introductory Cultural Anthropology and Linguistics	Anthropology	1002	Components on adaptive strategies, cultural ecology, traditional ecological knowledge and carrying capacity, especially among foraging, horticultural agricultural societies (past and present).
Introductory Biological Anthropology and Archaeology	Anthropology	1003	Components on adaptive strategies, cultural ecology, traditional ecological knowledge and carrying capacity, especially among foraging, horticultural anagricultural societies (past and present).
Ethnography of North American First Peoples	Anthropology/	2103	Components on adaptive strategies, cultural ecology, traditional ecological knowledge among North American Indigenous peoples. Components on adaptive strategies, cultural ecology
Indigenous People and the Industrial State	International Development Studies	2160	traditional ecological knowledge among Indigenous around the world highlights the impact of Industrial States on the lifeways of Indigenous peoples.
Archaeology of North America	Anthropology	2202	Components on cultural ecology, traditional ecologics knowledge among North American Indigenous peopl as revealed through archaeological evidence. Components on the origins of agriculture in North,
Rise of New World Civilization	Anthropology	2210	Central and South America and the impact this had on the environment and the development of ancient states. Components on the origins of agriculture in North,
Rise of Old World Civilization	Anthropology	2211	Central and South America and the impact this had on the environment and the development of ancient states. Focus on traditional ecological knowledge of Cree and the impact this had on the impact this had
Algonquin Ethnography Aboriginal Peoples of Arctic	Anthropology/	3113/4113	Ojibwe peoples in Manitoba, Ontario and Quebec. Focus on adaptive strategies, cultural ecology,
Canada Material Culture in the History of the Aboriginal Peoples of	History Anthropology	3126	Components on how the technology of Indigenous peoples in Canada was ecologically adaptive.
Canada History of the Aboriginal Peoples of the Northern Plains	Anthropology	3127	Components on cultural ecology, traditional ecologic knowledge among North American Indigenous
History of Eastern and Subarctic Algonquian Peoples	Anthropology	3128	Components on cultural ecology, traditional ecologic knowledge among Cree, Ojibwe and Dene peoples.
History of the Iroquoian Peoples	Anthropology/ History	3132/3532	Components on cultural ecology, traditional ecologic knowledge among the Iroquoian peoples.
Cultural Perspectives on Global Processes	Anthropology/ International Development Studies	3160	Components of the environmental impacts associated with the development of industrial and information technologies.
Ethnoecology: A Research Approach	Anthropology/ Indigenous Studies	3170	Underscores the traditional ecological knowledge systems of Indigenous and local communities by examining the interactions among these communities their knowledge, and the local environments that have sustained over time.
Issues in the Rise of Civilization	Anthropology	3205/4205	Components on how the rise of agriculture in Europe the Middle East, Asia and Africa and the impact this had on the environment and the development of ancient states.
Biology and Human Concerns	Biology	1102	Deals with the chemistry of life, cellular structure and function, genetics, natural ecosystems, impact of human populations and activities, food and water safety issues, consumer health awareness, global and Manitoban environmental concerns.
Evolution, Ecology and Biodiversity	Biology	1116	Touches on issues related to sustainability throughou distinct sections on conservation and restoration ecology.
Forest Policy and Management	Biology/ Environmental Studies	3476	Focuses on the principles and practices of sustainable forestry in Canada.
Comparative Animal Physiology II	Biology	3603	Exploring issues in conservation throughout the course; module on conservation physiology
Forest Health and Protection	Biology	4474	Focuses on the effect of fire, insect, disease and abiotidisturbances on the sustainable management of commercial forests in Canada. Wildlife ecology field camp with conservation
Field Research in Animal Ecology and Energetics	Biology	4602	physiology and conservation behaviour sections; focuon possible ways in which human activity affects wildlife. Fundamentals of chemistry are applied to examine a selected range of topics in the environmental,
Chemistry and Society	Chemistry	2801	consumer, and health-related areas, such as plastics and recycling, food chemistry, pesticides, drugs, detergents, global warming and/or acid rain. Recent literature is used to discuss current issues in environmental chemistry, with an emphasis on long-
Environmental Chemistry	Chemistry/	3601	range transport and global distribution of persistent, toxic and bioaccumulative contaminants. Provides an understanding of how and why chemical may damage humans and other organisms;
Environmental Toxicology Program Evaluation in	Environmental Studies Conflict Resolution Studies/	3611	toxicological modelling and environmental risk assessment are introduced. Includes consideration of sustainability in the process of program evaluation, particularly in terms of the impacts development or conflict resolution based
Development and Conflict Resolution	International Development Studies	4922	interventions may have on the environment, and the manner in which interventions seek to build long-tersustainable social, political and economic change. Examines economic models of resource extraction an harvesting through time; renewable and non-
Economics of Natural Resource Extraction	Economics	2311	renewable resources such as forestry, fisheries and fossil fuels are considered; an economic perspective of sustainability is introduced. Examines the role of economics in decision-making
Environmental Economics Energy Economics	Economics Economics	2317	Introduces students to the issues and policies pertaining to energy markets from an economic perspective; a case study for the demand for
Topics in Mathematical Economics	Economics Economics	2318 4203	transportation energy will be used as a unifying them throughout the course. Some examples in class are related to sustainability; for instance, calculating the optimal catch rate for a fishery to get the economic benefit without depleting
-	Economics	4203 4317	the resource, taking into account growth rate of the stock. Topics such as the theory of environmental policy, international aspects of environmental problems, monitoring and enforcement of environmental
-	Economics Education	4317	monitoring and enforcement of environmental regulations, and efficient versus sustainable utilization of natural resources are examined. Covers models of Sustainability Education, Sustainable Self and Ethics in Teaching, Real World Learning.
Early Years Curriculum, Instruction and Assessment:	Education	4842	Introduces students to the instructional approaches and assessment techniques relevant to the teaching of Social Studies within the context of the Manitoba
Middle Years Curriculum, instruction and Assessment: Social Studies	Education	4850	Education and Training curriculum framework for the early years; includes sustainability topics. Introduces students to the instructional approaches and assessment techniques relevant to the teaching of Social Studies within the context of the Manitoba Education and Training curriculum framework for
	Education	5001	Education and Training curriculum framework for the middle years; includes sustainability topics. Covers topics such as the Earth Charter, ecological integrity, democracy, nonviolence and peace; the sustainable development debate is part of class.
Special Topics in Education: Sustainability and Environment	Education	5001	Covers McKeon's Framework for Analysis of an Environmental Issue; addresses major risks and consequences to natural environments and human systems, and economic implications.
Special Topics in Education: Cultural Sustainability	Education	5001	Understanding of sustainability from a cultural perspective, how educational practices may impede sustainability, the relationship of dominant and marginalized cultures, social responsibility.
Special Topics in Education: Peace and Development	Education	5001	Covers peace and security, insecurity and conflict, overwhelmed health systems, the destruction of home schools and often whole communities, displaced peop and refugees; education for sustainable development plays a key role in promoting values for peace.
Special Topics in Education: Action Research in Education for Sustainability	Education	5001	Covers action research in education, specifically education for sustainability and to reflect on their ow practice in their classrooms (or other settings).
Special Topics in Education: Sustainability Economics	Education	5001	Covers the principles of sustainable economics and it role in teaching for sustainability; Sustainable Economics, poverty, sustainable communities, policy on sustainable economics, and alternative economic models.
Special Topics in Education: Global Perspectives on Indigenous Societies, Education and the Environment	Education	5001	Examines Indigenous perspectives on contemporary global problems that affect the environment and humanity; the implications of contemporary industri and consumer culture for the future of human societi are studied within the framework of the primal insights, values and definitions of community shared
Special Topics in Education:	Education	5001	by Indigenous peoples throughout the globe. Studies the principles, planning, and implementation of field-based learning resources. Place-based learning the contextual model of teaching, organizing an educational field experience for museums, planetariums, zoos, nature centers, and natural
Field-Based Learning			environments, teachers and the law, school policies and procedures, and utilizing resources in industry and commerce. Project might include (but not limited to) action research in schools and classrooms, comprehensive
Special Topics in Education: Project Human-Environmental	Education Environmental	5001	theoretical research paper, portfolio, research based school initiated course development (SIC). Deals with a variety of topics which illustrate the complexity and diversity of environmental issues; the
Interactions Sociology of the Environment	Studies Environmental	1600 2502	central theme is 'understanding natural processes in the environment' as a means of measuring human impact. Debates surrounding such concepts as sustainable development, deep ecology, environmental justice and
Voluntary Simplicity	Environmental Studies/ International	2521	global change are emphasized. Considers the implications and applications of voluntary simplicity in addressing local and global issues, such as economic equity, environmental
Environmental Sustainability: A Global Dilemma	Development Studies Environmental Studies/ International	2603	sustainability, community building, and quality of life Focuses on environmental factors relevant to understanding and implementing sustainable development; aims to teach students to understand
Environment and Health	Development Studies Environmental Studies	2604	fundamental ecological principles within the context social values and technological constraints Provides a scientific overview of selected chemical contamination issues, discusses relative risks of recognized and potential hazards, and assesses possible.
Issues in Sustainable Cities	Environmental Studies/Urban and Inner City Studies	3025	Addresses issues of sustainable urban development.
Law and the Environment	Environmental Studies	3035	Provides an introduction to Canadian environmental law, including common law an statutory regimes.
Winnipeg and the Environment: A Case Study Approach	Environmental Studies/Urban and Inner City Studies	3603	Focuses on the particular problems facing the City of Winnipeg in its interaction with the environment.
Business and the Environment	Environmental Studies	3606	Examines practical examples of ways in which business operations have responded to environmenta and sustainability challenges and opportunities.
Forests and the Environment	Environmental Studies	3607	Provides students with the fundamental knowledge of the interactions between human and forest ecosystem concepts underlying forest sustainability and forest conservation in a changing world are developed.
Forest Wildlife Management	Environmental Studies	3608	Focuses on the management of wildlife populations in forested environments in Canada; examination of forest biodiversity including conservation strategies.
Geographic Perspectives on Environment and Sustainability I	Environmental Studies/Geography	4450	Considers geographic and environmental approaches to sustainable staples-based development, particularl as they apply to water, energy and mining.
Environmental Impact Assessment	Environmental Studies	4611	Explores the methodology of environmental impact assessment (EIA).
Environmental Soil Science	Environmental Studies	4615	Provides students with a comprehensive knowledge of environmental issues related to soil science emphasizing the significant role soil plays in sustaining environmental quality.
A Geographical Perspective on Tourism	Geography	2412	Provides a broad overview of the world tourism industry that includes a geo-historical perspective on the origins, evolution, and growth of tourism; concep of capacity and sustainable tourism are addressed. Examines the structure and activities of cities and the
The Urban Environment	Geography	2414	resulting effects on the environment; approaches to developing more sustainable and environmentally sensitive cities are discussed. Focuses on urban decline and revitalization efforts; broad approaches to revitalization, revitalizing the
Urban Revitalization: Rebuilding of Decaying Cities	Geography	3413	commercial sector, attracting people back to the innecity, leadership and the role of partnerships, and planning for long term sustainability will be among topics discussed. Will examine such topics as sustainable development
Conservation	Geography	4232	biological diversity, soil erosion, agroforestry, forestr and ecosystem destruction, in order to better understand both the problems and potential solutions Based on a selection of advanced readings on topics and problems dealing with recreational and tourism
Advanced Tourism and Recreation Geography	Geography	4407	behaviour, the supply and demand for different types of recreational space and tourism facilities, and issue of sustainability. Explores issues surrounding indigenous peoples globally and their relationship to natural resource
Indigenous Peoples, Lands, and Resources Special Topics in Indigenous	Indigenous Studies	2050	development; analyzes conflicts associated with traditional development projects, as well as contradictions and possibilities for indigenous communities. Offers an opportunity to study the multiple dimensio (such as medicinal, ceremonial, aesthetic and
Studies: Summer School on Field Ethnobotany, Summer 2014	Indigenous Studies	3001	subsistence) of local uses of plants by indigenous communities in Manitoba along with the botanical knowledge of these plants. Focuses on emerging issues for Indigenous peoples
Indigenous Peoples,	Indigenous Studies Indigenous Studies/Master's in	3010 4023/7023	regarding the use and exploitation of their knowledge and biological resources. Taking indigenous peoples as actors, not victims, as is starting point, the class will then examine innovations
Globalization and Development Biocultural Diversity	Studies/Master's in Development Practice Indigenous Studies	4023/7023 4024.7024	in indigenous development practice that are culturall respectful, environmentally responsible and build a new sense of community. Addresses worldwide concerns regarding the loss of biological and cultural diversity; central premise of the sense of the
Indigneous Peoples Seminar in Selected Topics:			course is the interrelationship between Indigenous people and their environment. Offers students a chance to explore and critically engage with concepts, approaches and practices of community-based traditional food production,
Seminar in Selected Topics: Indigenous Food Security	Indigenous Studies	4200/7200	community-based traditional food production, consumption and distribution processes adopted by Indigenous and local communities in order to become
	ernational		sustainable communities and achieve community footsecurity.
Introduction to International Development Studies	Development Studies International	1100	sustainable communities and achieve community food security. Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and
Development Studies Participatory Local Development	International Development Studies International	2110	Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and empowerment, gender equity, social capital, sustainable livelihoods, social justice and local governance. Examines changes to rural society and economy in the South (Africa, Asia and Latin America) brought about
Participatory Local Development Rural Development Special Topics: What We Grow,	International Development Studies International Development Studies International International	2110 2131	Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and empowerment, gender equity, social capital, sustainable livelihoods, social justice and local governance. Examines changes to rural society and economy in the South (Africa, Asia and Latin America) brought about
Participatory Local Development Rural Development Special Topics: What We Grow, Share and Eat An Analysis of Development Aid	International Development Studies International Development Studies	2110	Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and empowerment, gender equity, social capital, sustainable livelihoods, social justice and local governance. Examines changes to rural society and economy in the South (Africa, Asia and Latin America) brought about historically by colonialism, and more recently through modern development efforts. Focuses on development aid policies and the administration of aid programs of the developed countries; will challenge students to think in terms of
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Participatory Local Development Rural Development Special Topics: What We Grow, Share and Eat An Analysis of Development Aid Policies Selected Topics in International Development Studies	International Development Studies	2110 2131 2182 3111 4182	sustainable communities and achieve community foosecurity. Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and empowerment, gender equity, social capital, sustainable livelihoods, social justice and local governance. Examines changes to rural society and economy in th South (Africa, Asia and Latin America) brought abolistorically by colonialism, and more recently throug modern development efforts. Focuses on development aid policies and the administration of aid programs of the developed countries; will challenge students to think in terms of sustainable development - how can aid effectiveness improved and sustainable development achieved? Presents an in-depth study of a particular problem in development, using theoretical and/or applied concepts. Several case studies are given where mathematical tools of optimization are used to determine the most frugal use of resources; particularly, examples are given involving 1) farm planning 2) responsible forestry with replanting. A unit of the course focuses on understanding ecosystem sustainability and thinking about how it can be consistent with human economic activity; students
Participatory Local Development Rural Development Special Topics: What We Grow, Share and Eat An Analysis of Development Aid Policies Selected Topics in International Development Studies Linear Optimization	International Development Studies Mathematics	2110 2131 2182 3111 4182 2701	sustainable communities and achieve community foosecurity. Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and empowerment, gender equity, social capital, sustainable livelihoods, social justice and local governance. Examines changes to rural society and economy in the South (Africa, Asia and Latin America) brought about historically by colonialism, and more recently through modern development efforts. Focuses on development aid policies and the administration of aid programs of the developed countries; will challenge students to think in terms of sustainable development - how can aid effectiveness limproved and sustainable development achieved? Presents an in-depth study of a particular problem in development, using theoretical and/or applied concepts. Several case studies are given where mathematical tools of optimization are used to determine the most frugal use of resources; particularly, examples are given involving 1) farm planning 2) responsible forestry with replanting. A unit of the course focuses on understanding ecosystem sustainability and thinking about how it can be consistent with human economic activity; students challenge the notion that social and economic sustainability are separate values competing with ecosystem sustainability. Involves the study of some of the more holistic "new frontiers" in biology (e.g. Epigenetics, The Theory of Organic Selection / The Baldwin Effect, Emergence
Participatory Local Development Rural Development Special Topics: What We Grow, Share and Eat An Analysis of Development Aid Policies Selected Topics in International Development Studies Linear Optimization Environmental Ethics Philosophy of Nature	International Development Studies Philosophy Philosophy	2110 2131 2182 3111 4182 2701 2233	sustainable communities and achieve community foor security. Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and empowerment, gender equity, social capital, sustainable livelihoods, social justice and local governance. Examines changes to rural society and economy in the South (Africa, Asia and Latin America) brought about historically by colonialism, and more recently througe modern development efforts. Focuses on development efforts. Focuses on development aid policies and the administration of aid programs of the developed countries; will challenge students to think in terms of sustainable development - how can aid effectiveness in improved and sustainable development achieved? Presents an in-depth study of a particular problem indevelopment, using theoretical and/or applied concepts. Several case studies are given where mathematical tools of optimization are used to determine the most frugal use of resources; particularly, examples are given involving 1) farm planning 2) responsible forestry with replanting. A unit of the course focuses on understanding ecosystem sustainability and thinking about how it can be consistent with human economic activity; students challenge the notion that social and economic sustainability are separate values competing with ecosystem sustainability. Involves the study of some of the more holistic "new frontiers" in biology (e.g. Epigenetics, The Theory of Organic Selection / The Balkwin Effect, Theory, Biosemiotics, etc.); environmental movements and sustainability a secondary theme throughout.
Participatory Local Development Rural Development Special Topics: What We Grow, Share and Eat An Analysis of Development Aid Policies Selected Topics in International Development Studies Linear Optimization Environmental Ethics Philosophy of Nature	International Development Studies Mathematics Philosophy Politics	2110 2131 2182 3111 4182 2701 2233	sustainable communities and achieve community foo security. Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and empowerment, gender equity, social capital, sustainable livelihoods, social justice and local governance. Examines changes to rural society and economy in the South (Africa, Asia and Latin America) brought about historically by colonialism, and more recently throug modern development efforts. Focuses on development aid policies and the administration of aid programs of the developed countries; will challenge students to think in terms of sustainable development - how can aid effectiveness I improved and sustainable development achieved? Presents an in-depth study of a particular problem in development, using theoretical and/or applied concepts. Several case studies are given where mathematical tools of optimization are used to determine the most frugal use of resources; particularly, examples are given involving 1) farm planning 2) responsible forestry with replanting. A unit of the course focuses on understanding ecosystem sustainability and thinking about how it course in the course focuses on understanding ecosystem sustainability and thinking about how it could be consistent with human economic activity; students challenge the notion that social and economic sustainability are separate values competing with ecosystem sustainability. Involves the study of some of the more holistic "new frontiers" in biology (e.g. Epigenetics, The Theory of Organic Selection / The Baldwin Effect, Emergence Theory, Biosemiotics, etc.); environmental sustainability a secondary theme throughout. Includes discussion on environmental movements and political issues surrounding the environmental, social and economic aspects of sustainability.
Participatory Local Development Rural Development Special Topics: What We Grow, Share and Eat An Analysis of Development Aid Policies Selected Topics in International Development Studies Linear Optimization Environmental Ethics Philosophy of Nature Introduction to Political Science Sustainability and Environmental Politics Religion and Society: The	International Development Studies Philosophy Philosophy Philosophy Politics Religion and	2110 2131 2182 3111 4182 2701 2233	sustainable communities and achieve community for security. Introduces sustainability in the context of "ecological footprints" in development work. Analyzes current emphases on participation and empowerment, gender equity, social capital, sustainable livelihoods, social justice and local governance. Examines changes to rural society and economy in th South (Africa, Asia and Latin America) brought abolistorically by colonialism, and more recently throug modern development efforts. Focuses on development aid policies and the administration of aid programs of the developed countries; will challenge students to think in terms of sustainable development - how can aid effectiveness I improved and sustainable development achieved? Presents an in-depth study of a particular problem in development, using theoretical and/or applied concepts. Several case studies are given where mathematical tools of optimization are used to determine the most frugal use of resources; particularly, examples are given involving 1) farm planning 2) responsible forestry with replanting. A unit of the course focuses on understanding ecosystem sustainability and thinking about how it to be consistent with human economic activity; students challenge the notion that social and economic sustainability are separate values competing with ecosystem sustainability. Involves the study of some of the more holistic "new frontiers" in biology (e.g. Epigenetics, The Theory of Organic Selection / The Baldwin Effect, Emergence Theory, Biosemiotics, etc.); environmental sustainability a secondary theme throughout. Includes discussion on environmental movements am political issues surrounding the environmental, social and economic aspects of sustainability. Examines measures and implications of the concept c sustainability as it impinges on virtually every policy area in Canada. Brings a variety of faith-based and ethical perspective to sustainability and the wider economic, social, and political environment in which sustainability must be
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