

Course Inventory

Sustainability-focused courses

Concentrate on the concept of sustainability, including its social, economic, and environmental dimensions, or examine an issue or topic using sustainability as a lens.

Sustainability-related courses

Incorporate sustainability as a distinct course component or module or concentrate on a single sustainability principle or issue.

Research and a survey conducted in the summer of 2011 by Facilities Management found 112 sustainability-focused courses and 205 sustainability-related courses in 2008-2011.

Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
Arts & Humanities	Classical Studies		CS 2906A/B – Greek and Roman Medicine
	English	English 2092F/G - Green Literature	English 1028F/G – Special Topic: From Culture to Nature
			English 9060 – Ecocriticism and Eco-poetics
	Philosophy	Philosophy 2033A/B – Intro. to Environmental Philosophy	Philosophy 1305F – Questions of the Day
		Philosophy 2035F – Nature, Ecology, and the Future	Philosophy 2074F – Business Ethics
		Philosophy 4993F – Environmental Philosophy	Philosophy 2810F – Global Justice and Human Rights
		Philosophy 9889 – Environmental Philosophy	
	Women’s Studies & Feminist Research		WS 4464F – Women, Globalization, and Development

Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
			WS 3331G/FN 3001G – Indigenous Feminism
			WS 9583 – Gender and Civil Society in Global Development

Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
Engineering	Biochemical & Environmental Engineering	CBE 3317Y – Introduction to Plant Design & Safety	CBE 2206A/2207B – Industrial Organic Chemistry I & II
		CBE 4497 – Chemical Process & Plant Design	CBE 2220A/B – Chemical Process Calculations
		CBE 4467A/B – Green Energy and Chemical Processes	CBE 2221B – Fluid Flow
		CBE 4432A/B – Oil Refining and Processing	CBE 2290A/B – Fundamentals of Biochemical & Environmental Engineering
		CBE 4499 – Chemical Engineering Design for Medical Students	CBE 2291A/B – Computational Methods for Engineers
		CBE 9464 – Process Intensification and Innovation	CBE 3301A/B – Biochemical Reaction Engineering
			CBE 3310A/B – Process Dynamics and Control
			CBE 3315A/B – Reaction Engineering
			CBE 3320A/B – Bioprocess Engineering
			CBE 3322A/B – Heat Transfer Operations
			CBE 3323A/B – Staged Operations

Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
			CBE 3324A/B – Mass Transfer Operations
			CBE 4403A/B – Biochemical Separation Processes
			CBE 4407A/B – Solid Waste Treatment
			CBE 4409A/B – Wastewater Treatment
			CBE 4413A/B – Selected Topics in Chemical Engineering
			CBE 4415 – Chemical Engineering Project
			CBE 4424A/B – Biosensor Principles and Applications
			CBE 4463A/B – Water Pollution Design
			CBE 4418A/B – Industrial Multiphase Reactor Design
			CBE 4493A/B – Polymer Engineering
			CBE 9132 – Oil Refining and Processing
			CBE 9271 - Nanobiotechnology
			CBE 9299 – Selected Topics in Biochemical Engineering
			CBE 9312 – Air Pollution Control
			CBE 9314 – Solid Waste Treatment
			CBE 9334 – Green Fuels and Chemicals



Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
			CBE 9350 – Physical Principles of Environmental Engineering
			CBE 9361 – Biological Wastewater Treatment
			CBE 9371 – Green Energy and Engineering
	Civil Engineering	CEE 3348A/B – Project Management & Engineering Cases	CEE 2217A/B – Introduction to Environmental Engineering
		CEE 4440 – Civil Engineering Thesis	CEE 2219A/B – Computational Tools for Civil Engineers
		CEE 4478A/B – Case Studies in Civil Engineering	CEE 3326 – Soil Mechanics & Hydrogeologic Engineering
			CEE 3347A/B – Concrete Design
			CEE 3355A/B – Municipal Engineering Design
			CEE 3361A/B – Water Resources Management
			CEE 3362A/B – Drinking Water Quality and Treatment
			CEE 3386A/B – Numerical Modeling for Environmental Engineers
			CEE 4441 – Civil Engineering Design Project
			CEE 4465A/B – Environmental Design for Waste Disposal



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			CEE 4418A/B – Systems Approach for Civil & Environmental Engineering
			CEE 4461A/B – Natural Disasters: Mitigation, Modeling & Assessment
			CEE 4458A/B – Risk Analysis & Decision-Making in Engineering
			CEE 4404A/B – Advanced Topics in International Development for Engineers
			CEE 4427 A/B – Special Topics in International Development
			CEE 3342A/B – Natural Loads and Their Effects
			CEE 3327A/B – International Development for Engineers
			CEE 3328A/B – Appropriate Technologies for International Development
	Computer Engineering	ES 4498F/G – Engineering Ethics, Sustainable Development and the Law (•)	
	Electrical	ECE 4439A/B – Conventional, Renewable and Nuclear Energy	

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	Green Process Engineering	GPE 3382A/G – Fundamentals of Green Engineering	GPE 2213A/B – Green Chemistry I
		GPE 3385A/B – Green Power	GPE 2214A/B – Green Chemistry II
		GPE 4497 – Green Process Design	GPE 2218A/B – Physical Chemistry and Reaction Equilibria
		GPE 3383A/B – Solar and Fuel Cells	GPE 3310A/B – Process Dynamics and Control with Green Engineering
		GPE 4415 - Green Process Engineering Project	GPE 3315A/B – Reaction Engineering with Green Engineering Applications
		GPE 4484 A/B – Green Fuels & Chemicals	GPE 3322A/B – Heat Transfer Operations with Green Engineering Applications
			GPE 3324A/B – Mass Transfer Operations with Green Engineering Applications
			GPE 3382A/B – Fundamentals of Green Engineering
			GPE 3383A/B – Solar & Fuel Cells
			GPE 4484A/B – Green Fuels and Chemicals
	Integrated Engineering	•	Due to interdisciplinary nature of program, IE students take courses in other programs
	Mechanical Engineering	•	MME 4460A/B – Heating, Ventilating and Air Conditioning II

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		MME 2259A/B – Product Design and Development	MME 4483A/B – Heating, Ventilating and Air Conditioning I
		MME 4423A/B – Internal Combustion Engines	MME 4491A/B – Wind Engineering
		MME 4443A/B – Energy Conversion	MME 4492A/B – Production Management for Engineers
	Mechatronic Systems Engineering	•	*New program offered in September 2011
	Software Engineering	•	0

Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
Health Sciences	Health Studies	HS 1002A/B – Introduction to the Social Determinants of Health	HS 2000A/B – Critical Issues and Debates in the Health Sciences
		HS 4410A/B – Future of Health Care	HS 2610 – Introduction to Ethics in Health
		HS 3090A/B – Global Health Promotion	HS 2711A/B – Health Issues in Aging
			HS 3010F/G – Introduction to Rural Communities
			HS 3011F/G – Creative Service Delivery in Rural Communities
			HS 3091A/B – The Management of Health and Illness: A Sociological Perspective
			HS 4091A/B – International Health System Comparisons
			HS 4092F – Health, Illness and Society

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			HS 4092 – Health Issues Among Marginalized Populations
	Nursing		Nursing 3310A/B – Global Health
			Nursing 3323W/X – Promoting the Health of Communities
			Nursing 3380F/G – Rural Health Nursing
			Nursing 4440A/B – Future Directions for Nursing and Health Care

Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
Information & Media Studies	Media, Information & Technoculture (MIT)	MIT 2411F/G – Crash: Landscape, Culture, and the Legacy of the Automobile	MIT 2500A/B – The Meaning of Technology: Exploring the Relationship Between Technology & Society

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Richard Ivey School of Business	HBA	Bus 4414A/B – Managing for Sustainable Development	
		Bus 4521 – Social Innovation	
		Bus 4539 – Corporations and Society	
		Bus 4522 – Managing the Triple Bottom Line	
		Bus 4538 – Women in Leadership	
		Bus 4529 – Social Enterprise	



Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
	MBA	Module 3: Competing Successfully in a Global Environment	
	MSc	Sustainability – Spring term	
	PhD	*2006-2008 – doctoral seminar entitled “Building Sustainable Value” was offered	

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Science	Biology	Biol 2485A/B – Environmental Biology	Biol 1201A/B – General Biology I
		Biol 3442F/G – Conservation Biology	Biol 1202A/B – General Biology II
		Biol 3446A/B – Wildlife Ecology and Management	Biol 2404A/B – Changing Plant Communities of Ontario
		Biol 4230A/B – Ecosystem Health	Biol 2483A/B – Ecology
		Biol 4243F/G – Political Biology	Biol 2484A/B – Patterns in Life’s Diversity
		Biol 4932F/G – Seminar in Conservation Biology	Biol 3220Z – Field Studies in Biology
		Biol 9412 – Ecosystem Ecology	Biol 3222F/G – Selected Topics
			Biol 3440A/B – Ecology of Populations
			Biol 3445F/G – Community Ecology
			Biol 3475A/B – Chemical Ecology
			Biol 3660A/B – Advanced Plant Physiology
			Biol 4257Z – Field Studies in Biology



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			Biol 4258Z – Field Studies in Biology
			Biol 4405F/G – Ecosystem Ecology
			Biol 4608F/G – Environmental Plant Physiology
			Biol 2217A/B – Plants as a Human Resource
	Chemistry	Chem 3330F/G – Industrial Chemistry	Chem 1027A/B – Chemistry in the News
			Chem 2210A/G – Chemistry of the Environment
			Chem 2211A/G - Inorganic Elements in Life
			Chem 2214A/B - Physical Chemistry for Life Sciences
			Chem 2271A/B - Structure and Bonding in Inorganic Chemistry
			Chem 3320A/B - Polymer Chemistry
			Chem 3373F/G - Organic Chemistry III: Reactions and Strategies for Synthesis
			Chem 4471A/G - Transition Metals and Catalysis
	Earth Sciences	ES 1081A/B – Resources, Environment, and Sustainability in a Material Society	ES 1088F/G – A Foundation for Medical and Forensic Geology
			ES 2241A/B – Hazardous Earth

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			ES 2261A/B – Biospheric Interactions Through Time
			ES 2265A/B – Paleobiology and Paleocology
			ES 2281A/B – Geology for Engineers
			ES 3320A/B – Environmental and Exploration Geophysics II
			ES 3340A/B – Watershed Hydrology
			ES 3341A/B – Waters and Geochemical Cycles
			ES 4431A/B – Isotope Geochemistry in Earth and Environmental Science
			ES 4440A/B – Fundamentals of Ground Water Flow and Contaminant Transport
			ES 4444A/B – Hazardous Mine Wastes
			ES 4462A/B – Glacial and Quaternary Geology
			ES 4471A/B – Petroleum Geology
			ES 4490E – Senior Thesis
			GL 9540A/B – Fundamentals of Ground Water Flow and Contaminant Transport



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			GL 9566 – Applied Concepts in Petroleum Geology
			GL 9532 – Ancient Ecosystems
			GL 9550 – Mineral Deposits and Evolution of Crustal Environments
			GL 9567 – Regional Petroleum Systems Seminar
			GL 9576 – Advanced Glacial Geology
	Environmental Science	EnvrSci 4970F/G – Independent Study in Environmental Science	EnvrSci 3300F/G – Natural Science of Environmental Problems
			EnvrSci 4949F/G - Special Topics in Environmental Science
			ES 1021G – Environmental Issues
			EnvrSci 3350F/G – Research Techniques in Environmental Science
			EnvrSci 4999E – Honors Research Thesis
	Physics & Astronomy		Physics 2070A/B – Understanding Earth’s Atmosphere
	Interdepartmental Programs	EnvrSust 9501/Geo 9334/PolSci 9720 – Environmental Policy	
		EnvrSust 9502/Geo 9107 – Environment and Health	
		EnvrSust 9503/Geo 3350 – Environmental Change	



Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
		EnvrSust 9503 – Environmental Anthropology	
		EnvrSust 9505/Biology – Domestication	
		EnvrSust 9011/9111/9112/9113 – Foundations of Sustainability	
		EnvrSust 9012 – Planning and Management	
		EnvrSust 9013 – Sustainable Business Practices	
		EnvrSust 9014 – Ecosystem Health	
		EnvrSust 9015 – Engineering Solutions	
		EnvrSust 9200 – Consulting Project	
		EnvrSust 9300 – Cooperative Education Experience (Co-op)	
		EnvrSust 9410/9420 – Interdisciplinary Research Seminar	
		EnvrSust 9506/History 9833 – Environmental History	
		EnvrSust 9507/Physics 9720 – Atmospheric Physics	
		EnvrSust 9508/Geo 3351 – Dendrochronology	
		EnvrSust 9509/ES 9508 – Analytical Geochemistry	
		EnvrSust 9510/Bus 9026 – Sustainability	



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		EnvrSust 9511/Geo 9224/Geo 9224 – Urban Climatology	
		EnvrSust 9512/CEE 9642 – Environmental Chemistry	
		EnvrSust 9513/Anthro 9120 – Approaches to Landscape Archeology	
		EnvrSust 9514/CBE 9265 – Microalgal Systems: Biotech and Applications	
		EnvrSust 9515/ES 9532 – Ancient Ecosystems	
		EnvrSust 9516/Anthro 9221 – Political Ecology and Naturecultures	

Faculty	Departments/Programs	Sustainability-Focused	Sustainability-Related
Social Science	Anthropology	Anthro 2272F/G – The Anthropology of Tourism	Anthro 2201F/G – Urban Thinking: Cultural Explorations of Towns and Cities
		Anthro 2260F/G – ‘Nature’ in the City	Anthro 2203F/G – Indigenous Peoples, Globalization, and the Environment
			Anthro 9220 – Environmental Anthropology
			Anthro 2218F/G – Contemporary First Nations Issues in Canada



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			Anthro 2262F/G – The Production and Consumption of Global Commodities
			Anthro 2264F/G – Issues in Primate Conservation
			Anthro 2269F/G – Special Topics in Environment Culture
			Anthro 2281F/G – Anthropology of Development
			Anthro 2532F/G – Indigenous Women and Globalization
			Anthro 3322 – Field Course in Environmental Anthropology
			Anthro 3369F/G – Advanced Special Topics in Environment Culture
			Anthro 4402F/G – Indigenous Cultures and Globalization
			Anthro 4431F/G – Advanced Special Topics
			Anthro 3309F/G – Hunting and Gathering Societies
			Anthro 2217F/G – First Nations Traditional Cultures of Canada
			Anthro 9204 – Ethnographic Approaches to ‘the City’



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			Anthro 9210 – Assessing Development
			Anthro 9211 – Seeing like an NGO
			Anthro 9212 – The Anthropology of Resource Frontiers
	Economics	Econ 2172A/B – Environmental Economics	
	First Nations Studies	FNS 2203F/G – Indigenous Peoples, Globalization, and the Environment	FNS 2531F/G – Women in First Nations Cultures
		FNS 2532F/G – Indigenous Women and Globalization	FNS 2218F/G – Contemporary First Nations Issues in Canada
		FNS 2601F/G – Indigenous Environments	
		FNS 4402F/G – Indigenous Cultures and Globalization	
	Geography	Geo 1100 – Fundamentals of Geography	Geo 1300A/B – Physical Geography
		Geo 1400F/G – People, Places, and Landscapes	Geo 2010A/B – Geography of Canada
		Geo 1500 A/B – Society and Nature	Geo 2011A/B – Ontario and the Great Lakes
		Geo 2144F/G – Geography of Tourism	Geo 2012A/B – Geography of Arctic Canada
		Geo 2151A/B – Global Change: Issues and Impacts	Geo 2020A/B – Latin America and the Caribbean: Landscapes of Inequality

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		Geo 2152F/G – Geography of Hazards	Geo 2030A/B – Africa South of the Sahara
		Geo 2153A/B – Environment, Economy, and Society	Geo 2040A/B – Geography of East and Southeast Asia
		Geo 2154F/G – Resource Planning and Management	Geo 2045 A/B - Russia and the Former Soviet Union
		Geo 2411F/G – Indigenous Environments	Geo 2071F/G – World Rivers
		Geo 2450F/G – Introduction to Resource and Environmental Management	Geo 2130Y - Field Geography and Geology of Southwestern Ontario
		Geo 3432A/B – Environmental Hazards and Human Health	Geo 2131A/G – The Natural Environment r
		Geo 3441F/G – Conservation and Development	Geo 2310A/B – Weather and Climate
		Geo. 3442F/G - Geographies of Development	Geo 2320A/B – Introductory Biogeography
		Geo 3445F/G – Geography of Agriculture, Food and Nutrition	Geo 2330A/B – Geomorphology and Hydrology
		Geo 3451A/B – Impact Assessment and Sustainable Resource Management	Geo 3260A/B – Environmental Modeling with Geographic Information Systems and Remote Sensing



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		Geo 3452A/B – Implementing Sustainability	Geo 3311A/B – Micrometeorology
		Geo 3453F/G – Water Resources Management	Geo 3312A/B - Human Impacts on Weather and Climate
		Geo 4430A/G – Community-based Research on Environment and Health	Geo 3321A/B – Advanced Biogeography
		Geo 9300 - Advanced Studies in Environment Development and Health	Geo 3331A/B 0 – Glacial Geomorphology
		Geo 9332 – Environmental Hazards	Geo 3333A/B – Drainage Basin Geomorphology
		Geo 9116 – Indigenous Health	Geo 3334A/B – Geomorphology of River Channels
			Geo 3341A/B – Hydrology
			Geo 3342A/B - Groundwater Hydrology
			Geo 3350A/B - Environmental Change
			Geo 3351A/B - Dendrochronology
			Geo 3352A/B – Paleolimnology and Global Environmental Change
			Geo 2410F/G - Social Geography



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			Geo 2420 F/G - Economic Geography
			Geo 2430A/B - Health Geography
			Geo 2460F/G - Urban Development
			Geo 3415A/G - Geographic Perspectives on Law and Society
			Geo 3431A/B - Land Use and Development Issues
			Geo 3462F/G - Land Use Planning
			Geo 9103 - Environmental Monitoring
			Geo 9104 - Environmental Change
			Geo 9105 - Environmental Modelling
	History		History 3225F/G – Nature in Canadian History
			History 3407F/G – Themes in European Environmental History: From Antiquity to the Nineteenth Century
	Management and Organizational Studies	MOS 3401F/G – Corporate Social Responsibility	
	Political Science	PS 2137 – Politics of the Environment	

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		PS 3314E – Global Environmental Governance	
	Psychology		Psych 3723F/G – Attitudes and Attitude Change
			Psych 3721F/G - The Psychology of Persuasion
	Sociology	Socio 2107A/B – Population and Environment: Theory, Practice and Debate	Socio 2179A/G – Promotion of Community Health
		Socio 2103F/G – Population and Development in Africa	Socio 2212A/B – Women and Third World Development
		Socio 2104F/G – Population and Development in Asia	Socio 2246A/B – Sociology of Health and Illness
			Socio 2280A/G – Population Health and Longevity
			Socio 2285A/B – Social Inequality over the Life Course
			Socio 4420F/G – Race, Class and Colonialism
			Socio 2239 – Social Inequality
			Socio 9147 – Social Inequality