Boston University
Sustainability Courses
Fall 2014 - Spring 2015

		A brief description of how the course is focused around Sustaiability	*UG- Undergraduate GR- Graduate*	*School and department the course is offered under*	*Notes regarding how the course is being counted*	*Count Value of Course*	*UG & UG/GR Course Count*	*GR Course Count*
Course ID	**Course Title**	**Description**	**Level**	**Department**	**Notes**	**Total Count**	**Undergraduate**	**Graduate**
CASAN363	Food and Water: Critical Perspectives on Global Crises	This course examines production, consumption, and distribution of food, and studies a range of sustainable water management systems--and the politics of water--in different parts of the world.	UG	CAS Anthropology		1	1	
CASAR504	Preserving World Heritage: Principles and Practice	Examines fundamental issues in preservation and management of World Heritage sites. Focuses on implementation of UNESCO's Conventions, Recommendations, and Charters; evaluation of cultural properties for inscription as World Heritage sites; and their protection from natural and human threats.	UG/GR	CAS Archaeology		1	1	
CASBI306	Biology of Global Change (EBE)	Students will learn about the ecological impacts of human activity on terrestrial and aquatic ecosystems focusing on sustainable solutions to issues such as climate change, forest decline, eutrophication, acidification, loss of species diversity, and restoration of ecosystems.	UG	CAS Biology		1	1	
CASBI307	Biogeography	Examines the environmental and human influences on species distribution, abundance, and diversity from historical, ecological, and sustainable perspectives concentrating on changes resulting from past and projected climate change.	UG	CAS Biology	"Also offered as CAS GE 307"	1	1	
CASBI423	Marine Biogeochemistry (EBE)	This course looks at changing oceanic nutrient and biogiochemical cylces that link local marine environments to larger global environments. Sustainable solutions to problems such as declining oceanic productivity, iron limitations, and the oceanic glacial carbon dioxide budget are discussed.	UG	CAS Biology	"Also offered as CAS ES 423"	1	1	
CASBI448	Biodiversity and Conservation Biology (EBE)	Students will study factors that determine the survival of speices such as environment, population, genetics, and the human activity for temperate and tropical communities, as well as terrestrial and aquatic habitats. Focuses on biological diversity and modern sustainable methods aimed at protecting endangered plant and animal species.	UG	CAS Biology		1	1	
CASBI475	Urban Ecology	The biophysical environments and ecology of urban settlements. Key topics include the physical environment, patterns in human population growth and development, ecosystem structure and function, global change, urban environment pollution and management, and sustainable urban development. Also offered as CAS GE 475.	UG	CAS Biology	"Also offered as CASGE475"	1	1	
CASBI523	Marine Urban Ecology	Studies topics, ecosystems, and organisms that are a part of the sustainable urbanization of the Greater Boston area to understand how human and ecological processes can coexist in human-dominated systems.	UG/GR	CAS Biology	"Also offered as CAS GE 523"	1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
CASBI543	Global Ecology	This course explores the many biospheric threads that link and exchange throughout the earth. Students will recognize the earth as a series of interdependent natural networks over vast geographical distances. This course highlights how humans are striving to "fit into" rather than have dominion over earth systems, with an emphasis specific to sustainable practices and efforts by human cultures throughout the world.	UG/GR	CAS Biology		1	1	
CASBI578	Marine Geographic Information Science	Introduction to marine geographic information systems and spatial analysis for conservation, management, and marine landscape ecology. Course uses comparative examples from the Gulf of Maine and the tropics to develope sustainable coastal zoning and marine park design methods as well as whale and coral reef conservation practices.	UG/GR	CAS Biology	"Also offered as CAS GE 578"	1	1	
CASEC371	Environmental Economics	This course looks at the role of economics in environmental planning and the application of cost-benefit models as an aid in policy decisions affecting sustainability. It provides an economic analysis of the causes of pollution and its control through taxes, the use of property rights, and regulations.	UG	CAS Economics		1	1	
CASEC571	Energy and Environmental Economics	Characterizes environmental resources and markets from physical, economic, and legal standpoints then makes welfare arguments for public sector intervention. Methodologies for sustainable policy assessment and simulation are analyzed using project analysis, new technology, evaluation models, deterministic and econometric models.	UG/GR	CAS Economics		1	1	
CASES351	Paleoclimatology and Paleoceanography	Examines causes and effects of climate change throughout Earth's history using ice-core, coral, and marine sediment records. Students investigate sustainable solutions to avoid a dramatic change in climate based off oceanic history, ice age climates and glaciations, and terrestiral extinctions.	UG	CAS Earth & Environment		1	1	
CASES423	*Marine Biogeochemistry*	*This course looks at changing oceanic nutrient and biogiochemical cylces that link local marine environments to larger global environments. Sustainable solutions to problems such as declining oceanic productivity, iron limitations, and the oceanic glacial carbon dioxide budget are discussed.*	*UG*	*CAS Earth & Environment*	*"Accounted for under CAS BI 423"*			
CASGE100	Introduction to Environmental Science	Introduces students to basic physical, ecological, and environmental concepts underlying the relationship between human society and the natural environment. Evaluation of problems and options available in dealing with the areas of natural resources, pollution, environmental degradation, and population growth.	UG	CAS Earth & Environment		1	1	
CASGE101	Natural Environments: The Atmosphere	This course focuses on weather climate and climate, and makes connections between society, climate change, and the natural environment.	UG	CAS Earth & Environment		1	1	
CASGE150	Sustainable Energy: Technology, Resources, Society, and Environment	Description is optional; sustainability focus of the course is apparent from its title.	UG	CAS Earth & Environment		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
CASGE250	The Fate of Nations: Climate, Resources, and Institutions	Interdiciplinary study of the success and failure of societies using the relationships between the environment, natural resources, and humans. Principles from thermodynamics, climatology, ecology, and economics are used to evaluate the role of the environment and resources in whether a society can sustain itself.	UG	CAS Earth & Environment		1	1	
CASGE304	Environmentally Sustainable Development	Description is optional; sustainability focus of the course is apparent from its title.	UG	CAS Earth & Environment	"Also offered as CAS IR 304"	1	1	
CASGE307	*Biogeography*	*Examines the environmental and human influences on species distribution, abundance, and diversity from historical, ecological, and sustainable perspectives concentrating on changes resulting from past and projected climate change.*	*UG*	*CAS Earth & Environment*	*"Accounted for under CAS BI 307"*			
CASGE309	Intermediate Environmental Analysis and Policy	Introduces economic and environmental theory critical to the formulation and evaluation of environmental policy and resource management. This theory is applied to find sustainable solutions to major world problems like climate change, population growth, and energy use.	UG	CAS Earth & Environment		1	1	
CASGE310	Climate and the Environment	This course focuses on understanding the physical processes governing energy, mass, and momentum transfer in the oceans and atmosphere. It examines the physical principles governing the climate system as well as the interaction and feedback of these processes to determine whether we can create a sustainable system despite anthropogenic factors.	UG	CAS Earth & Environment		1	1	
CASGE375	Introduction to Quantitative Environmental Modeling	Introduces students to quantitative models of environmental systems concentrating on the application of quantitative models to finding sustainable solutions to current environmental issues such as population growth, pollution transport, and biodiversity.	UG	CAS Earth & Environment		1	1	
CASGE394	Environmental History of Africa	Explores the role of colonialism in environmental changes made in Africa based off studies of ecological systems and government policy over the past 150 years. Students will look for sustainable solutions to an assortment of issues like climatic change, deforestation, soil erosion, and disease in the area.	UG	CAS Earth & Environment		1	1	
CASGE400	Environment and Development: A Political Ecology Approach	Centers on the theory and practice of development with an explicit focus on environmental issues like climate change, conservation, and urbanization. Presents the history of development and the environment; explores select themes in development and environmental studies; and considers alternative, more sustainble development paradigms.	UG	CAS Earth & Environment		1	1	
CASGE420	Methods of Environmental Policy Analysis	Introduction to the analysis of environmental policy, the implications of environmental problems in making sustainable public decisions, and the effectiveness, advantages, and disadvantage of different tools available to decision-makers.	UG	CAS Earth & Environment		1	1	
CASGE425	United States Environmental Policy	Survey and historical overview of key environmental policies and regulations in the United States since the National Environmental Policy Act of 1970. Emphasizes the formulation and implementation of federal pollution control regulations and considers policies for sustainable development, including future policy needs.	UG	CAS Earth & Environment		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
CASGE456	Terrestrial Ecosystems and the Carbon Cycle	Includes discussion of greenhouse gas emissions of CO2 and CH4.	UG	CAS Earth & Environment		1	1	
CASGE460	Resource Economics and Policy	Economic analysis of environmental resources and policies for their management. Introduces dynamic optimization as a tool for understanding and anlayzing both resource scarcity and the management of energy, fishery, and forestry resources for sustainability.	UG	CAS Earth & Environment		1	1	
CASGE475	*Urban Ecology*	*The biophysical environments and ecology of urban settlements. Key topics include the physical environment, patterns in human population growth and development, ecosystem structure and function, global change, urban environment pollution and management, and sustainable urban development. Also offered as CAS GE 475.*	*UG*	*CAS Earth & Environment*	*"Accounted for under CASBI475"*			
CASGE521	Environmental Law and Policy	Survey of the major features of environmental law and relevant procedural and constitutional issues. Comparison of political, economic, social, geographic, and biological realities in practice against the ideal context for what is sustainable.	UG/GR	CAS Earth & Environment		1	1	
CASGE522	Environmental Policy and Decision-Making	How society addresses environmental problems with decision-making and environmental policy. Examines new issues facing environmental professionals and approaches to creating a sustainable world including discussions about the environmental movement in the fields of law, science, technology, economics, and international relations.	UG/GR	CAS Earth & Environment		1	1	
CASGE523	*Marine Urban Ecology*	*Studies topics, ecosystems, and organisms that are a part of the sustainable urbanization of the Greater Boston area to understand how human and ecological processes can coexist in human-dominated systems.*	*UG/GR*	*CAS Earth & Environment*	*"Accounted for under CAS BI 523"*			
CASGE525	Plant Physiological Ecology	Seeks to further our understanding of human impacts on the environment by examining the eco-physiological responses of plants and communities to changing environmental factors and climates. Also the plant and community level impacts on the environment as manifested primarily in hydrologic, energy, and carbon cycles.	UG/GR	CAS Earth & Environment		1	1	
CASGE536	European Environmental Policy	Examines transatlantic environmental relations and the role of the European Union in global environmental governance. Focuses on the key concepts, issues, and actors related to the European integration of environmental policies and sustainable developments.	UG/GR	CAS Earth & Environment	"Also offered as CAS IR 536"	1	1	
CASGE578	*Marine Geographic Information Science*	*Introduction to marine geographic information systems and spatial analysis for conservation, management, and marine landscape ecology. Course uses comparative examples from the Gulf of Maine and the tropics to develope sustainable coastal zoning and marine park design methods as well as whale and coral reef conservation practices.*	*UG/GR*	*CAS Earth & Environment*	*"Accounted for under CAS BI 578"*			
CASGE594	Global Environmental Negotiation and Policy	Key concepts, actors, concerns, and issues related to the process of negotiating global environmental policies. Includes an overview of the international system and case studies related to finding sustainable solutions to environmental problems such as ozone depletion, climate change, desertification, and biodiversity loss among others.	UG/GR	CAS Earth & Environment	"Also offered as CAS IR 594"	1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
CASGE597	Development and Environment in Latin America	Provides an empirically based understanding of the social and environmental aspects of economic development in Latin America and the Caribbean (LAC) for purposes of analyzing the sustainablity of numerous trade and development policies that nations in LAC are currently considering.	UG/GR	CAS Earth & Environment	"Also offered as CAS IR 597"	1	1	
CASGE599	Science, Politics, and Climate Change	Examines the relationships and interactions between scientific and political systems at global, national, and local levels. Applies a science and technology studies perspective to climate change science and similar policies to help us meet the needs of today without compromising our ability to do so in the future.	UG/GR	CAS Earth & Environment	"Also offered as CAS IR 599"	1	1	
CASHI291	Politics of the American Environment	Examines how the history of resource distribution, environmental rights, and environmental hazards have shaped how sustainability is reflected in United States politics and governance, with a focus on the late nineteenth and twentieth centuries.	UG	CAS History		1	1	
CASIR304	*Environmentally Sustainable Development*	*Description is optional; sustainability focus of the course is apparent from its title.*	*UG*	*CAS International Relations*	*"Accounted for under CAS GE 304"*			
CASIR536	*European Environmental Policy*	*Examines transatlantic environmental relations and the role of the European Union in global environmental governance. Focuses on the key concepts, issues, and actors related to the European integration of environmental policies and sustainable developments.*	*UG/GR*	*CAS International Relations*	*"Accounted for under CAS GE 536"*			
CASIR573	Introduction to Public International Law	The role of international law in efforts to solve current problems of world order. Emphasis on environmental protection and the regulation of ocean space and resources.	UG/GR	CAS International Relations		1	1	
CASIR594	*Global Environmental Negotiation and Policy*	*Key concepts, actors, concerns, and issues related to the process of negotiating global environmental policies. Includes an overview of the international system and case studies related to finding sustainable solutions to environmental problems such as ozone depletion, climate change, desertification, and biodiversity loss among others.*	*UG/GR*	*CAS International Relations*	*"Accounted for under CAS GE 594"*			
CASIR597	*Development and Environment in Latin America*	*Provides an empirically based understanding of the social and environmental aspects of economic development in Latin America and the Caribbean (LAC) for purposes of analyzing the sustainablity of numerous trade and development policies that nations in LAC are currently considering.*	*UG/GR*	*CAS International Relations*	*"Accounted for under CAS GE 597"*			
CASIR599	*Science, Politics, and Climate Change*	*Examines the relationships and interactions between scientific and political systems at global, national, and local levels. Applies a science and technology studies perspective to climate change science and similar policy concerns.*	*UG/GR*	*CAS International Relations*	*"Accounted for under CAS GE 599"*			
CASMR510	Marine Science Policy, Resource Management, and Public Debate	This course explores how scientists can most effectively communicate with the public and policy makers, and how science can most effectively contribute to the shaping of public policy.	UG/GR	CAS Marine Science		1	1	
CASMR533	Scientific Diving and Underwater Research Methods	This course introduces students to underwater research methods.	UG	CAS Marine Science		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
CGSNS202	Natural Science II: Human Ecology/Global Ecology	Examines the impact of humans on the ecosystems of the biosphere seeking to determine the fate of the biosphere and our species. Interrelationships between science and society are explored to see if ecological sustainability can be integrated into economic and technological growth.	UG	CGS Natural Science		1	1	
COMCM313	Corporate Communication	This course addresses the connection between sustainability issues and brand reputation. During the course students learn the importance of materiality as a driver for strategy, resources and communications. Students apply insights/learnings against case studies and relevant issues happening in the news.	UG	COM Mass Communication, Advertising & Public Relations		1	1	
ENGEC417	Electric Energy Systems: Adapting to Renewable Resources	Presents a detailed perspective of electric power systems from generation, transmission, storage, and distribution to end users. Emphasis is placed on methodologies for reliable, efficient transmission and distribution of power over the grid including challenges for adapting to renewable resources such as photovoltaics and wind.	UG	ENG Electrical and Computer Engineering		1	1	
ENGEC543	Sustainable Power Systems: Planning, Operation and Markets	Description is optional; sustainability focus of the course is apparent from its title.	UG/GR	ENG Electrical and Computer Engineering	"Also offered as ENG ME 543 and ENG SE 543"	1	1	
ENGEC573	Solar Energy Systems	Educate students in the design and applications of solar energy technology. It will focus on fundamentals of solar energy conversion, solar cells, optical engineering, photoelectrochemical cells, thermoelectric generators, and energy storage and distribution systems.	UG/GR	ENG Electrical and Computer Engineering	"Also offered as ENG MS 573"	1	1	
ENGEK225	Introduction to Energy Conversion and Environmental Engineering	Students will examine the existing state of the world's energy use and its impact on society and the planet. Includes comparison of renewable energy generation technologies: wind, solar, biomass, and hydro, and conventional sources. Students discuss energy conversion with regards to batteries and fuel cells, liquid bio-fuels, and grid level storage systems; these technologies are put into a social context, and students examine their use around the world.	UG	ENG Engineering Core		1	1	
ENGEK335	Introduction to Environmental Engineering	Introduction to environmental engineering topics to quantitatively understand and find solutions for environmental problems. Topics covered include models for resource consumption and risk analysis, energy systems, water quality assessment and supply issues, and resource recovery and recycling.	UG	ENG Engineering Core		1	1	
ENGEK408	Introduction to Clean Energy Generation and Storage Technologies	This course covers a wide variety of modern energy generation and storage technologies and focuses on the advantages of using renewable energy resources such as solar, hydrogen, biomass, geothermal, hydro, and wind instead of non-renewable fossil fuels and nuclear resources.	UG	ENG Engineering Core		1	1	
ENGEK546	Assessment of Sustainable Energy Technologies	Description is optional; sustainability focus of the course is apparent from its title.	UG/GR	ENG Engineering Core		1	1	
ENGME543	*Sustainable Power Systems: Planning, Operation and Markets*	*Description is optional; sustainability focus of the course is apparent from its title.*	*UG/GR*	*ENG Mechanical Engineering*	*"Accounted for under ENG EC 543"*			

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
ENGMS573	*Solar Energy Systems*	*Educate students in the design and applications of solar energy technology. It will focus on fundamentals of solar energy conversion, solar cells, optical engineering, photoelectrochemical cells, thermoelectric generators, and energy storage and distribution systems.*	*UG/GR*	*ENG Materials Science & Engineering*	*"Accounted for under ENG EC 573"*			
ENGSE543	*Sustainable Power Systems: Planning, Operation and Markets*	*Description is optional; sustainability focus of the course is apparent from its title.*	*UG/GR*	*ENG Systems Engineering*	*"Accounted for under ENG EC 543"*			
GRSBI623	Marine Biogeochemistry	This course looks at changing oceanic nutrient and biogiochemical cylces that link local marine environments to larger global environments. Sustainable solutions to problems such as declining oceanic productivity, iron limitations, and the oceanic glacial carbon dioxide budget are discussed.	GR	GRS Biology		1		1
GRSBI648	Biodiversity and Conservation Biology	Students will study factors that determine the survival of speices such as environment, population, genetics, and the human activity for temperate and tropical communities, as well as terrestrial and aquatic habitats. Focuses on biological diversity and modern sustainable methods aimed at protecting endangered plant and animal species.	GR	GRS Biology		1		1
GRSES623	Ecosystem Biogeochemistry	This course studies nutrient and biogeochemical cycles in terrestrial, freshwater, and marine ecosystems; including how these cycles contribut to global biogeochemistry. Some topics include anthropogenic effects on ecosystem cycles and productivity, ecosystem restoration, climate change, and the global CO2 budget.	GR	GRS Earth & Environment		1		1
GRSGE600	Environment and Development: A Political Ecology Approach	Centers on the theory and practice of development with an explicit focus on environmental issues like climate change, conservation, and urbanization. Presents the history of development and the environment; explores select themes in development and environmental studies; and considers alternative, more sustainble development paradigms.	GR	GRS Earth & Environment		1		1
GRSGE620	Methods of Environmental Policy Analysis	Introduction to the analysis of environmental policy, the implications of environmental problems in making sustainable public decisions, and the effectiveness, advantages, and disadvantage of different tools available to decision-makers.	GR	GRS Earth & Environment		1		1
GRSGE625	United States Environmental Policy	Survey and historical overview of key environmental policies and regulations in the United States since the National Environmental Policy Act of 1970. Emphasizes the formulation and implementation of federal pollution control regulations and considers policies for sustainable development, including future policy needs.	GR	GRS Earth & Environment		1		1
GRSGE656	Terrestrial Ecosystems and the Carbon Cycle	Includes discussion of urban environmental ecology and sustainability.	GR	GRS Earth & Environment		1		1
GRSGE660	Resource Economics and Policy	Economic analysis of environmental resources and policies for their management. Introduces dynamic optimization as a tool for understanding and anlayzing both resource scarcity and the management of energy, fishery, and forestry resources for sustainability.	GR	GRS Earth & Environment		1		1

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
GRSGE794	Current Issues in Environmental Affairs	This class fosters research on the negotiation and implementation of environmental treaties to explore key concepts related to regimes and environmental diplomacy. The effectiveness of current policies in solving contemporary environmental issues will be analyzed.	GR	GRS Earth & Environment		1		1
GRSIR794	Current Issues in International Environmental Affairs	This seminar explores key concepts related to regimes and environmental diplomacy and focuses on a selected set of contemporary issues in international environmental affairs. This course seeks to foster research and writing on the negotiation and implementation of international environmental treaties.	GR	GRS International Relations		1		1
GSMOB835	Leading Sustainable Enterprises	Description is optional; sustainability focus of the course is apparent from its title.	GR	GSM Organizational Behavior		1		1
GSMPL870	Government, Society and Sustainable Development	Description is optional; sustainability focus of the course is apparent from its title.	GR	GSM Markets, Public Policy & Law		1		1
LAWJD722	Environmental Justice Law	Explore why environmental justice concerns have arisen and what legal mechanisms may be used to address them. Will identify current situations where claims of environmental injustice could be made and examine how existing legal tools, including the 1964 Civil Rights Act and federal environmental statutes, might be applied to deal with them.	GR	LAW Jurice Doctor		1		1
LAWJD833	Environmental Law	This is an introductory survey class in environmental law. Topics include the control of air and water pollution, toxic substances, and hazardous waste, as well as protection of wetlands and endangered species.	GR	LAW Jurice Doctor		1		1
METAD620	Environmental Law, Regulation & Sustainability	Description is optional; sustainability focus of the course is apparent from its title.	UG/GR	MET Administrative Sciences		1	1	
METAD650	Economic Development via Tourism in the Developing World	Students will visit a developing country and learn how the tourist industry has developed in that country, how sustainable that development has been, and what are potential directions for future growth. The focus will be on sustainable economic development in both developed and developing countries while minimizing the negative environmental, social, and cultural impact of such development.	UG/GR	MET Administrative Sciences		1	1	
METAD657	Economic Sustainability, Development, and Competitiveness of a Tourist Destination	Description is optional; sustainability focus of the course is apparent from its title.	UG/GR	MET Administrative Sciences		1	1	
METCS504	Green Information Technology	This course empowers students to reduce the energy use, waste, and other environmental impacts of IT systems while reducing life cycle costs, thereby improving competitive advantage. Students learn how to work with various green technologies and how to make green IT an integral part of organizational culture and planning, to foster long-term sustainable information technology.	UG/GR	MET Computer Science		1	1	
METML714	Urban Agriculture	This course focuses on urban agriculture in Boston and a number of case studies from around the globe. Students study the social and cultural sides of urban agriculture, as well as the political and city planning aspects of urban agriculture projects, trying to solve global food access and nutrition education problems.	GR	MET Gastronomy		1		1

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
METML720	Food Policy and Food Systems	This course presents frameworks and case studies that will advance participants' understandings of U.S. and global food systems and policies. Adopting food-systems and food-chain approaches, it provides historical, cultural, theoretical and practical perspectives on world food problems and patterns of dietary and nutritional change.	GR	MET Gastronomy		1		1
METUA521	Environmental Law	Examines the principles and status of environmental laws for pollution control and environmental improvement with an emphasis on air, water, land, and hazardous waste issues. Case materials and court decisions pertaining to major impact statements, resource conservation and protection, and growth management will be analyzed with environmental, economic, and other policy relationships in mind.	UG/GR	MET Urban Affairs		1	1	
METUA617	Living Systems Theory and Design	The class takes an experiential approach to explore the interrelationship between perceived human needs and earth's living processes. Students engage with the theory and practical implementation of current practices of 'sustainability' and living systems thinking. Based on the experience and writings of leading living system theorists, planners, and developers.	UG/GR	MET Urban Affairs		1	1	
METUA629	Urbanization and the Environment	Interrelationships between the physical environment and processes of urbanization. Case studies examine the historical perspective on social, economic, and physical aspects of the quality of urban life to prepare students to assess modern anthropogenic environmental impacts and the environmental quality of urban life.	UG/GR	MET Urban Affairs		1	1	
SARHS345	Global Environmental Public Health	This course will use a multidisciplinary approach to provide an introduction to the principles, methods, and issues related to global environmental health. Examines health issues, scientific understanding of causes, and possible future approaches to the control of major international environmental public health problems.	UG	SAR Health Sciences		1	1	
SMGSI453	Strategies for Environmental Sustainability	Consider how and when firms can respond to growing demands for improved environmental performance and disclosure in a way that also improves the long term financial performance of the firm. Through case studies and a team project working with the BU Sustainability Office, provides exposure to the analytical tools and thinking required to evaluate the business case for sustainability.	UG	SMG Strategy & Innovation		1	1	
SPHEH745	Wastewater and Health/Sustainable Sanitation	Description is optional; sustainability focus of the course is apparent from its title.	GR	SPH Environmental Health		1		1
SPHEH750	Water Quality and Public Health	This course provides an overview of the technical and scientific basis on which public health decisions are made regarding water quality and management. Students will take samples, analyze them, and use water quality objectives for comparison with real world data in examining the social, political, and economic factors that affect water resource management.	GR	SPH Environmental Health		1		1

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
SPHEH806	Development and the Environment	The course discusses the contestation over ideas, methods, and resources for sustainable development and equitable health outcomes emphasizing throughout the relationships between human health, development, and the environment. Specific examples include food and agriculture, environmental impacts of industrialization, and the effects of global climate on health.	GR	SPH Environmental Health		1		1
STHTS829	Christian Ecological Ethics and Political Issues	Sustainability weaves throughout the course, expressed in primary texts and in case studies that provide consideration of real-life situations to complement the texts. Scholars in the ecological field from distinct Christian traditions are discussed in depth, as they approach sustainability issues from different but complementary perspectives.	GR	STH Ethics	"Also offered as STH TS 929"	1		1
STHTS889	Sacred Earth: Indigenous Peoples' Ecological Traditions	Sustainability permeates the course including by consideration of the Earth Charter, the UN Declaration on the Rights of Indigenous Peoples, and elaboration of the teachings of traditional native elders from Black Elk through David Sohappy, Sr. Texts on and Discussion of key spiritual leaders disclose how sustainability--in the form of traditional elders' teachings on respect and care for Mother Earth--is an essential part of (American) Indian spiritual and social traditions.	GR	STH Ethics		1		1
STHTS929	*Christian Ecological Ethics and Political Issues*	*Includes discussions on the ecological crisis and challenges students to formulate public policy possibilities and practical projects to address and solve these ecological problems.*	*GR*	*STH Ethics*	*"Accounted for under STH TS 829"*			
						77	**56**	**21**

Boston University
Courses that Include Sustainability
Fall 2014 - Spring 2015

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
		A brief description of how the course includes Sustaiability	*UG- Undergraduate GR- Graduate*	*School and department the course is offered under*	*Notes regarding how the course is being counted*	*Count Value of Course*	*UG & UG/GR Courses*	*GR Courses*
CASAH398	Twentieth-Century Architecture	Includes the history of key environmental modern architecture projects	UG	CAS History of Art & Architecture		1	1	
CASAH587	Green Design	This seminar explores the historical context for issues of sustainability and green architecture from the eighteenth century to the present, charted through questions of landscape theory, public park making, suburbanization, adaptive re-use, and new materials and methods of construction.	UG/GR	CAS History of Art & Architecture		1	1	
CASAN285	Coping with Crisis in Contemporary Africa (area)	Includes readings and lectures on environmental degradation and lack of a sustainable livelihood for ordinary Africans	UG	CAS Anthropology		1	1	
CASAN308	Food, Culture, and Society	Includes study of foodways, culinary social history, and diet and food ecology with special attention to Asian societies and Boston's food culture. Students discuss interdependence in food supplies, the politics of sustenance, and social change.	UG	CAS Anthropology		1	1	
CASAN331	Human Origins	Includes analysis of early humans' climate and how it has changed since then.	UG	CAS Anthropology		1	1	
CASAN347	Afghanistan (area)	Includes a section on the current environmental situation in Afghanistan and prospects for the country's future.	UG	CAS Anthropology		1	1	
CASAN379	China: Tradition and Transition (area)	Includes modules on the severe pollution as well as social and political volitility in China.	UG	CAS Anthropology		1	1	
CASAR209	The Near Eastern Bronze Age	Includes analysis of major factors affecting the sustainability of ancient Near East and Egyptian civilizations	UG	CAS Archaeology		1	1	
CASAR280	Eating and Drinking in the Ancient World	This course includes a unit on agriculture and on sustainable food production.	UG	CAS Archaeology		1	1	
CASAR307	Archaeological Science	Includes discussion on with human impacts on ancient environments, methods for paleoenvironmental reconstruction, and methods to identify agricultural strategies from archaeological remains. In each, the sustainability of human land use is the primary focus.	UG	CAS Archaeology		1	1	
CASAR509	Geoarchaeology	Includes lectures on archaelogical problems due to anthropogenic sediments among other human caused environmental challenges	UG/GR	CAS Archaeology		1	1	
CASBI107	Biology I	This course includes an introduction to biology and covers basic principles of ecology, evolution, and behavior. Students discuss global ecosystems as well as conservation biology.	UG	CAS Biology		1	1	
CASBI260	Marine Biology (EBE)	Includes a module on how humans have impacted life in the seas and what is being done mitigate these impacts	UG	CAS Biology		1	1	
CASBI302	Vertebrate Zoology (EBE)	This course focuses on the evolution, identification, and anatomy of vertebrates. The course is taken by many students who are interested in understanding vertebrates for their future careers.	UG	CAS Biology		1	1	
CASBI303	Evolutionary Ecology (EBE)	Includes investigation of ecological processes and patterns at the individual, population, and community level; an evolutionary approach is emphasized. Students study human impacts on natural ecosystems.	UG	CAS Biology		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
CASBI407	Animal Behavior (EBE)	Includes an ethological approach to animal behavior. Lectures also include discussion on behavioral ecology. Students also participate in day field trips taken around New England.	UG	CAS Biology		1	1	
CASBI414	Ornithology (EBE)	Includes examination of the behavior, ecology and morphology, physiology, classification, and evolution of birds.	UG	CAS Biology		1	1	
CASBI443	Terrestrial Biogeochemistry	Includes discussions on antrhopogenic effects on the carbon as well as other nutrient cycles	UG	CAS Biology	"Also offered as CAS ES 443"	1	1	
CASBI503	Symbiosis (EBE)	Includes in analysis of key Earth systems how seemingly insignificant human activities can lead to ecosystem-wide impacts	UG/GR	CAS Biology		1	1	
CASBI530	Forest Ecology	Includes a module on forest ecosytem management especially in areas heavily influenced by climate change	UG/GR	CAS Biology	"Also offered as CAS GE 530"	1	1	
CASBI539	Coral Reef Dynamics: Shallow Waters, Deep Time	Includes discussions that apply in-class and lab observations to reef conservation techniques in a world with changing environmental conditions	UG/GR	CAS Biology	"Also offered as CAS ES 539"	1	1	
CASCC105	Core Natural Science I: The Evolution of the Physical Universe and of the Earth	Includes a discussion of the evolution of the Earth and the recent impact of human activity on the bodies of water, land, and atmosphere.	UG	CAS Core Curriculum		1	1	
CASEC101	Introductory Microeconomic Analysis	Includes discussions on efficient resource allocation and defining sustainable economic growth	UG	CAS Economics		1	1	
CASEC320	Economics of Less-Developed Regions	Includes applications of the structural changes associated with the process of economic development in poor regions for policy judgments in practicing sustainable developing, planning, and programming.	UG	CAS Economics		1	1	
CASEC337	Economic Analysis of Legal Issues	Includes lectures on how environmental regulation strategies vary in market versus nonmarket systems	UG	CAS Economics		1	1	
CASEC365	Economic Institutions in Historical Perspective	Includes discussions on responsible management of environmental resources such as water and fisheries	UG	CAS Economics		1	1	
CASEC521	Development Policy	Includes case study where students analyze a current development problem and apply policy measures that work towards sustainable solutions	UG/GR	CAS Economics		1	1	
CASEC561	Public Economics I	Includes modules on calculating the economic costs of pollution when making public policy decisions	UG/GR	CAS Economics		1	1	
CASES105	Environmental Earth Sciences	This course includes examination of geological processes in environmental science; geological resource supply and recovery; climate; desertification; and glaciation. Students examine all the ways the planet, through its natural processes, impacts human life and how our activity affects the planet.	UG	CAS Earth & Environment		1	1	
CASES140	Earthquakes, Volcanoes, and Other Natural Disasters	Includes discussion on anthropogenic factors that could potentially be influencing natural disasters	UG	CAS Earth & Environment		1	1	
CASES144	Oceanography	Includes discussions on human impacts on the ocean and how we can mitigate them. The corresponding discussion is really focused on sustainability through decreasing our Nitrogen footprint.	UG	CAS Earth & Environment		1	1	
CASES317	Introduction to Hydrology	Includes a module on water scarcity and practices that help conserve this resource	UG	CAS Earth & Environment		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
CASES333	Earth Surface Processes	Includes discussions about the effects of climate change on the evolution of Earth's landscapes, the processes that are most affected, and the implications for facing the challenges caused by these changes	UG	CAS Earth & Environment		1	1	
CASES371	Introduction to Geochemistry	Includes a unit on applications of geochemistry to regional and global problems such as preservation of the environment, health,and waste disposal.	UG	CAS Earth & Environment		1	1	
CASES423	Marine Biogeochemistry	Includes discussions about the ways humans have altered the major elemental cycles on earth and how we can mitigate these impacts.	UG	CAS Earth & Environment		1	1	
CASES443	*Terrestrial Biogeochemistry*	*Includes discussions on antrhopogenic effects on the carbon as well as other nutrient cycles*	*UG*	*CAS Earth & Environment*	*"Accounted for under CAS BI 443"*			
CASES539	*Coral Reef Dynamics: Shallow Waters, Deep Time*	*Includes discussions that apply in-class and lab observations to reef conservation techniques in a world with changing environmental conditions*	*UG/GR*	*CAS Earth & Environment*	*"Accounted for under CAS BI 539"*			
CASGE100	Introduction to Environmental Science	Includes lectures on environmental problems and sustainable options availible in the areas of natural resources, pollution, environmental degradation, and population growth	UG	CAS Earth & Environment		1	1	
CASGE201	World Regional Geography	Includes a module on current issues regarding sustainable development that have resulted from the environmental, historical, economic, and organizational qualities of the "Old World"	UG	CAS Earth & Environment		1	1	
CASGE302	Remote Sensing of Environment	Includes sustainable applications of satellite remote sensing to manage and conserve Earth's natural resources	UG	CAS Earth & Environment		1	1	
CASGE365	An Introduction to Geographic Information Systems (GIS)	This course focuses on GIS (geographical information system) and mapping using digital data. Students undertake a variety of projects including sustainability related to climate change, urban food deserts, ecosystem services, natural gas leaks, and other topical issues.	UG	CAS Earth & Environment		1	1	
CASGE504	Physical Climatology	Includes a unit on climatic feedback processes and how anthropogenic influences on these processess are a driving force of climate change	UG/GR	CAS Earth & Environment		1	1	
CASGE505	Geographic Information Systems (GIS)	Includes a focus on GIS (geographical information system) and spatial modeling. Students undertake a variety of projects including sustainability related to climate change, urban food deserts, ecosystem services, natural gas leaks, and other topical issues.	UG/GR	CAS Earth & Environment		1	1	
CASGE510	Physical Principles of the Environment	Principles and concepts underlying the physical and ecological forces that cause environmental change. Topics include soil erosion, acid rain, thermal pollution, greenhouse effect, stratospheric ozone depletion, and loss of biodiversity.	UG/GR	CAS Earth & Environment		1	1	
CASGE530	*Forest Ecology*	*Includes a module on forest ecosytem management especially in areas heavily influenced by climate change*	*UG/GR*	*CAS Earth & Environment*	*"Accounted for under CAS BI 530"*			
CASGE533	Risk Assessment	Includes activities specifically designed to give students experience performing risk assessments used to protect people from environmental hazards.	UG/GR	CAS Earth & Environment		1	1	
CASIR333	Non-State Actors in International Relations	Includes discussions on Non Government Organizations as well as major industries and how these non-state actors affect sustainable international development.	UG	CAS International Relations		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
CASIR390	International Political Economy	Includes a module on global envinronmental politics and examines how this topic plays into the international political economy.	UG	CAS International Relations		1	1	
CASIR395	North-South Relations	Includes discussions of how considerations for the environment played into the political economy of development particularly between the industrialized nations of the "North" and the developing nations of the "South."	UG	CAS International Relations		1	1	
CASIR568	U.S.-Latin American Relations	Includes focus on specific issues in U.S.-Latin American relations, including democracy, economic development, drug trafficking, the environment, and migration. These topics directly or indirectly address sustainability challenges.	UG/GR	CAS International Relations	"Also offered as CAS PO 565"	1	1	
CASMA267	The Mathematics of Sustainability	Includes "just-in-time" mathematics/statistics techniques that are taught with immediate application, for example: geometry for flight routes; graph theory for social networks; linear algebra for operations research; fractal measures for earthquakes and tsunamis. Students aim to develop models for sustainability.	UG	CAS Mathematics		1	1	
CASPH150	Introduction to Ethics	Includes a discussion about the environmental crisis we are facing, in particular -- when discussing the prisoner's dilemma and the strengths and weaknesses of traditional social contract theory.	UG	CAS Philosophy		1	1	
CASPH244	How Are We To Live? Ethics in Action	This course explores topics in practical ethics. Students spend a week discussing the global environmental crisis.	UG	CAS Philosophy		1	1	
CASPO565	*U.S.-Latin American Relations*	*Includes focus on specific issues in U.S.-Latin American relations, including democracy, economic development, drug trafficking, the environment, and migration. These topics directly or indirectly address sustainability challenges.*	*UG/GR*	*CAS International Relations*	*"Accounted for under CAS IR 568"*			
CASSO411	Seminar: Sociology of the Nonprofit Sector	Students will study how private, non-governmental actors (either civil society or market actors) can seek to effect social and/or environmental change, including what challenges they face and what strategies and resources they can employ to achieve success.	UG	CAS Sociology		1	1	
CGSHU202	Humanities IV: History of 20th-Century Ethical Philosophy and Applied Ethics	Includes a module on Environmental ethics and applies philosophical ideas to our relationship with the modern environment.	UG	CGS Humanities		1	1	
COMCM702	Advertising and Society	Includes disscussions on the parallels between advertising and sustainable cultures especially with the rise of the social effects of the advertising industry such as consumersim.	GR	COM Mass Communication, Advertising & Public Relations		1		1
COMCM831	International Communication	This course addresses how the concept of sustainability is communited around the world.	GR	COM Mass Communication, Advertising & Public Relations		1		1
ENGEC583	Power Electronics for Energy systems	Includes applications of power electronic circuits to energy systems, including solar cell installations, wave and wind power, and electric vehicles	UG/GR	ENG Electrical & Computer Engineering		1	1	
ENGEK335	Introduction to Environmental Engineering	Includes discussions on ways to monitor and tackle air and water pollution as well as solid waste management. Students discuss consequences of increased population and resource consumption and its impact on sustainability.		ENG Engineering Core		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
ENGME533	Energy Conversion	This course focuses on thermodynamic and mechanical aspects of modern energy conversion systems, including traditional systems such as steam electric power plants, gas turbines and internal combustion engines and refrigeration systems, and renewable systems such as solar, wind, and geothermal. Students discuss the various energy conversion technologies in relation to their technical, economical and environmental aspects.	UG/GR	ENG Mechanical Engineering		1	1	
ENGME545	Electrochemistry of Fuel Cells and Batteries	Includes discussions on improving energy conversion efficiency through fuel cells and providing means for energy storage through batteries.	UG/GR	ENG Mechanical Engineering	"Also offered as ENG MS 545"	1	1	
ENGMS545	*Electrochemistry of Fuel Cells and Batteries*	*Includes discussions on improving energy conversion efficiency through fuel cells and providing means for energy storage through batteries.*	*UG/GR*	*ENG Materials Science & Engineering*	*"Accounted for under ENG ME 545"*			
GRSAH867	Material Culture	Includes analysis of the effects of a material culture on the earth and future trends resulting from the environmental movement.	GR	GRS History of Art & Architecture	"Also offered as GRS AM 867"	1		1
GRSAM867	*Material Culture*	*Includes analysis of the effects of a material culture on the earth and future trends resulting from the environmental movement.*	*GR*	*GRS American & New England Studies*	*"Accounted for under GRS AH 867"*			
GRSBI614	Ornithology	Includes examination of the behavior, ecology and morphology, physiology, classification, and evolution of birds.	UG/GR	GRS Biology		1	1	
GRSBI623	Marine Biogeochemistry	Includes discussions about the ways humans have altered the major elemental cycles on earth and how we can mitigate these impacts.	UG/GR	GRS Biology		1	1	
GRSBI643	Terrestrial Biogeochemistry	Includes discussions on the patterns and processes controlling carbon and nutrient cycling in terrestrial ecosystems; links between local and global scales are emphasized. Students study human impacts on earths major element cycles.	UG/GR	GRS Biology	"Also offered as GRS ES 643."	1	1	
GRSES643	*Terrestrial Biogeochemistry*	*Includes discussions on the patterns and processes controlling carbon and nutrient cycling in terrestrial ecosystems; links between local and global scales are emphasized. Students study human impacts on earths major element cycles.*	*UG*	*GRS Earth & Environment*	*"Accounted for under GRS BI 643"*			
GRSES671	Geochemistry	Includes a unit on applications of geochemistry to regional and global problems such as preservation of the environment, health,and waste disposal.	UG	GRS Earth & Environment		1		1
GRSGE805	Spatial Analysis Using Geographic Information Systems (GIS)	Includes a focus on GIS (geographical information system) and spatial modeling. Students undertake a variety of projects including sustainability related to climate change, urban food deserts, ecosystem services, natural gas leaks, and other topical issues. There is also focus on working with experts on research topics that can result in useful analysis. Students in Spring 2014 worked with Dennis Carlberg to understand climate change impacts on BU in the next 30 years.		GRS Earth & Environment		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
GSMOB830	Leading the Mission-Driven Organization	Includes discussions on missions that range from improving health care, educating or protecting youth, safeguarding the planet, eradicating poverty, and building sustainable organizationas a means to builds the capacities of students to use specific tools related to leadership, conflict, and change	GR	GSM Organizational Behavior		1		1
LAWBK987	Securitization	Includes discussion of securization and structured finance as segments of financial markets. Structured finance includes securitization as well as transactions in which securities are not issued, but which involve the often complex structuring of cash flows to achieve a desired tax, accounting or financial objective. These transactions often cut across many areas of legal specialization, including environmental law, etc. Students will also explore "exotic" asset classes such as renewable energy assets.	GR	LAW Banking		1		1
LAWJD836	Federal Courts	Includes lectures covering the federal courts and their conduct of litigation concerning business regulation, environmental protection, and civil rights	GR	LAW Juris Doctor		1		1
LAWJD855	Land Use	Includes wide range of laws, regulations, and policy considerations that influence and govern the development of land. Students will also discuss topics such as environmental and "green building" issues, etc.	GR	LAW Juris Doctor		1		1
METAD603	Evaluating and Developing Markets for Cultural Tourism	Includes various themes of cultural tourism including the relationship between conservation and preservation vs. utilization of a cultural asset, private industry and the non-profit sectors in tourism planning and sustainable economic development, etc. Students will examine these themes in different areas of cultural tourism including the art industry, historical sites, cultural landmarks, special events and festivals, theme parks and gastronomy.	UG/GR	MET Administrative Sciences	"Also offered as MET ML 692"	1	1	
METAD610	Introduction to Business Continuity, Security, and Risk Management	This course is focused on enterprise risk management, within the confines of which sustainability is becoming more and more important, given the rising awareness regarding global climate change, resource limitations and related topics.	UG/GR	MET Administrative Sciences		1	1	
METAD655	International Business, Economics, and Cultures	This course is primarily focused on international business and trade; the rapid and growing adaption of numerous climate change and sustainable development related measures and policies, sustainability is becoming a bigger and a more explicit part of the curriculum.	UG/GR	MET Administrative Sciences		1	1	
METAD758	Eco-Tourism	Includes discussions of emerging area of eco-tourism in both developing and developed nations. Students will discuss the purpose of eco-tourism, importance to GDP, infrastructure demands, return on investment, and the possible financial strains and returns to local areas.	GR	MET Administrative Sciences		1		1
METBI107	Biology I: Evolution, Ecology, and Behavior	This course teaches basic ecological principles and offers examples of where populations can over-exploit resources.	UG	MET Biology		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
METBI303	Ecology (EBE)	Includes discussions on basic principles of ecology, population dynamics and behavior, interrelationships of plants and animals and their physical and chemical environment. This course also covers structure and function of ecosystems and community dynamics.	UG	MET Biology		1	1	
METBI407	Animal Behavior (EBE)	Includes an ethological approach to animal behavior. Lectures also include discussion on behavioral ecology. Students also participate in day field trips taken around New England.	UG	MET Biology		1	1	
METML565	Food Marketing	Includes exploration of marketing and brand management for food products, components and ingredients in the restaurant and retail industries, with some attention to sustainability, including the marketing dynamics related to the slow and organic foods movements.	UG/GR	MET Gastronomy		1	1	
METML692	*Evaluating and Developing Markets for Cultural Tourism*	*Includes various themes of cultural tourism including conservation and preservation vs. utilization of a cultural asset, private industry and the non-profit sectors in tourism planning and sustainable economic development, etc. Students will examine these themes in different areas of cultural tourism including the art industry, historical sites, cultural landmarks, special events and festivals, theme parks and gastronomy.*	*UG/GR*	*MET Gastronomy*	*"Accounted for under MET AD 603"*			
METML711	The Many Meanings of Meat	This course focuses the many historical, economic, ecological, ethical, and nutritional dimensions of meant. It examines how meat has long been associated with power, masculinity, vitality, and progress, as well as how it is linked to imperialism, sexism, speciesism, environmental collapse, foodborne disease, and chronic illness.	GR	MET Gastronomy		1		1
METML715	Food and the Senses	Includes interdisciplinary exploration of the sensory foundations and implications of food. Students' understanding of these processes, constructions and theories is key to understanding a vast array of food-related topics: sustainability and terroir, etc.	GR	MET Gastronomy		1		1
METML721	US Food Policy and Culture	Includes discussions on the forces shaping U.S. food policies, cultural politics, diet, and nutrition situations in the twenty-first century. Students will consider "sustainable-food" ideology as a driver of American dietary and food-regulatory change.	GR	MET Gastronomy		1		1
METML722	Studies in Food Activism	Includes discussions on diverse individual and collective forms of food activism including veganism, gleaning, farmers' markets, organic farming, fair trade, CSAs, buying groups, school gardens, anti-GMO movements, Slow Food, Via Campesina, and others. Students address questions like: what is food activism, what are its goals, what is working and not working, and what are the results?	GR	MET Gastronomy		1		1
METPO241	Introduction to Public Policy	Includes analysis of several issue areas: energy and the environment, etc. With which, students will identify factors which may affect the content and implementation of public policies.	UG	MET Political Science		1	1	

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
METUA301	Introduction to Urban Affairs	Includes an overview of prominent theories about the nature and causes of urban problems. Students will examine the metropolitan area and consider present as well as future urban policy options in areas such as environmental development, etc.	UG	MET Urban Affairs		1	1	
METUA619	Urban Transportation Policy and Planning	This course includes detailed examinations of energy, climate, and air quality issues related to transportation, and discusses policy responses.	UG/GR	MET Urban Affairs		1	1	
METUA620	Urban and Regional Land Use Policy and Planning	Includes techniques of land use planning, including environment and service impacts. Students use these techniques to develop policies for achieving land use objectives: land preservation, etc.	UG/GR	MET Urban Affairs		1	1	
METUA704	Urban Economic Issues and Analysis	This course provides students with a basic understanding of knowledge in economic issues affecting cities and their regions. Includes focus on the allocation of finite resources across metropolitan areas, locational and investment decisions, market forces and government policies that can shape cities, as well as cities themselves as centers of economic activity. Students develop an appreciation for the critical components of sustainable economic growth.	GR	MET Urban Affairs		1		1
SARHS320	Genomics in Public Health	Includes analysis and discussion of the impact of the genetics and genomics and their relationships with the environment on population health and diseases during the post-Human Genome Project era. Students will examine the effects of the advancement of high-throughput innovations in scientific discoveries on public health policies.	UG	SAR Health Sciences		1	1	
SMGMK323	Marketing Management	Introduces students to the field of marketing management: analysis, planning and implementation of marketing strategies as the means for achieving an organization's objectives. Students analyze cases and participate in workshops that focus on key marketing management tasks: marketing research, consumer behavior, segmentation and targeting, sales forecasting, product and brand management, distribution channels, pricing, and promotion and advertising strategies. These cases also include examining trends that have to with corporate social responsibility and sustainability.	UG	SMG Marketing		1	1	
SMGOM323	Operations Management	Focuses on the elements of operations management that are of particular importance in the context of new product development. Includes cases and lectures that address sustainability from an operations and technology standpoint.	UG	SMG Operations & Technology Management		1	1	
SPHEH735	The Environmental Determinants of Infectious Diseases	Includes discussions on how changing global environmental factors can affect the transmission cycle of infectious pathogens. Students consider sustainable environmental intervention strategies to reduce the burden of infectious diseases.	GR	SPH Environmental Health		1		1
SPHEH805	Environmental Health Science, Policy and Law	Includes case studies to discuss current and historic controversies in environmental policy making. Students will learn how environmental health laws and regulations are made and challenged. Topic areas include air and water quality, hazardous waste, and environmental justice.	GR	SPH Environmental Health		1		1

Course ID	Course Title	Description	Level	Department	Notes	Total Count	Undergraduate	Graduate
SPHEH811	Geographic Information Systems (GIS) in Public Health	This course is an introductory level course for a novice GIS user. The Geographic Information Systems (GIS) tools learned in class can be used to study sustainability problems. Students gain skills needed to apply GIS in their careers.	GR	SPH Environmental Health		1		1
SPHEH866	Risk Assessment Methods	Includes discussion of practical application of risk assessment methods to various environmental problems. Students learn to quantify the risk of adverse health effects from exposures to chemicals in the environment and also apply what they learn to evaluations of biological and radiological exposures.	GR	SPH Environmental Health		1		1
SPHEH914	Environmental Health Doctoral Seminar	Includes a central topic in environmental health, where students will examine the basic science of the topic from a historical perspective and the prosposed policies to combat the issues.	GR	SPH Environmental Health		1		1
SPHPH825	The Role of Human and Environmental Factors in Emerging and Re-emerging Infectious Diseases	Includes discussions of environmental factors involved in the natural history of emerging and re-emerging infectious diseases; knowledge which will be used for creating appropriate long term disease control and prevention strategies.	GR	SPH Public Health Core		1		1
SSWMP781	Community Organizing	Includes readings related to sustainable community development in regards to community empowerment and organization in the Community Development Approach unit	GR	SSW Macro Practice		1		1
STHTM858	Creating Resilience Amidst Resource Scarcity	Includes student experiments with practical applications to address the problem of "overshoot": consuming more of earth's resources than the planet can replenish.	GR	STH Mission Studies		1		1
						96	**74**	**22**