

## Undergraduate Sustainability Courses

Department	Course	Sustainability Course	Course that Includes Sustainability	Course Description or Description of Sustainability Content
<b>Community Leadership</b>	CL 100- Introduction to Community Leadership		1	This course is the introductory course for the Community Leadership major and minor. It will introduce students to the concepts of community, service, civic responsibility, leadership in nonprofit organizations, and social justice.
	CL 300- Fund Development and Grant Writing		1	This course provides an introduction to grant research and writing, within a larger context of fund development for nonprofit agencies, for students who have little or no prior experience in developing grant proposals.
	CL 396- Practicum/Internship in Community Leadership		1	This course is a field placement for three credit hours in which the student will spend at least 150 hours, or 10-15 hours per week in a nonprofit agency during the semester in addition to regular meetings with the Community Leadership Director. Through the practicum the student will gain practical experience of the agency's mission and programs, develop an understanding of its financial and governance systems, and become more involved with the agency's population.
	CL 398- Readings in Community Leadership		1	Individually negotiated program of readings on a selected topic established by Academic Programs. Theme is still community leadership, which is closely related to sustainability.
	CL 399- Independent Project in Community Leadership		1	Individually negotiated project in Community Leadership established by contract between instructor and student. Theme is still community leadership, which is closely related to sustainability.

	CL 400- Community Leadership Capstone		1	This course is a three credit course which builds on the CL396 Practicum experience of the student. The student is expected to develop an analysis of how the agency might serve its clients in ways it is not presently doing. In concert with agency leaders and the Community Leadership Director, the student will develop a program proposal designed to close this gap. This proposal will include best practice from similar agencies and should be of such a quality that it can be submitted to funders.
<b>Kinesiology</b>	KN 146- Nutrition, Exercise, Stress		1	Study of nutrition, exercise, and stress. Activities will include personal fitness Academic Programs 191 assessment, active participation, and lecture and discussion. This course involves both lecture and participation in exercises. Sustainability: Environmental Wellness Chapter with recycling projects and information on chemical exposure in products.
	KN 332- Promoting and Funding Sport and Exercise		1	The course is a comprehensive overview of sales, marketing, public relations, fundraising, and retention in sport business. Distinctions will be made for the varied sports settings of professional sports teams, educational athletic, club industry, sports manufacturing and retail world. Projects will be used within each of the five main topics to give students practical experiences with each topic. Sustainability: Class presentation must include a component on sustainability (marketing plan).
	KN 362- Administration of Sport and Recreation		1	Administrative theory and philosophy, budgeting and business procedures, facility planning and logistics, risk management, inventory management, other aspects related to administration of recreation and sport. Sustainability: Green facilities lecture and external research on industry examples.
<b>Inquiry and Expression</b>	GE 101: Inquiry and Expression	1		An integrated collegiate skills course that introduces students to academic discourse, including writing, reading, research, oral communication, and critical thinking. Library and electronic research skills are directly applied as students conclude the course with a research paper. Sustainability: Food Justice/Food waste unit.
<b>Mathematics</b>	MS 118: Calculus for Application	1		Optimization story problems, along with the methods from calculus and operations research, including sustainability.
	MS 121: Calculus with Analytic Geometry		1	Optimization and related rates with sustainability as a theme of the module.

	MS 122: Calculus II (4) MS		1	Inverse functions, integration techniques, integrals with applications, conic sections, polar coordinates, parametric equations, sequences and series. The connection with sustainability is discussed.
	MS 231: Multivariate Calculus		1	Optimization, conservation vector fields with sustainability as a theme of the module.
	MS 241: Differential Equations		1	Hazardous materials models, population models.
<b>World Languages</b>	SH101: First Semester in the Language: Four Skills		1	Introduction to listening, speaking, reading, and writing skills, and the cultures of Spanish speaking countries. Sustainability Content: Content about environmental concerns in the country is included.
	SH102: Second Semester in the Language: Four Skills		1	Continuation and development of listening, speaking, reading, and writing skills. Further exposure to the cultures of Spanish speaking countries. Sustainability Content: Content about environmental concerns in the country is included
	SH201: Third Semester in the Language		1	Expansion of the four language skills and cultural knowledge at an intermediate level. Sustainability Content: Content about environmental concerns in the country is included
	SH202: Fourth Semester in the Language		1	Further expansion of the four language skills and cultural knowledge at an intermediate level. Sustainability Content: Content about environmental concerns in the country is included

	WL230: European Cultures and Identities		1	This course examines the notions of Europe and the diverse interactive cultures and identities of the people living in Europe. From a multidisciplinary perspective it offers students the opportunity to improve their knowledge of Europe in light of a broad spectrum of cultures. Specifically, it explores the development and current state-of-affairs of these cultures in France, Germany and Spain as European Union members. This is not a course about the history of the European Union per se; however, selected readings will demonstrate how historical experiences and memories play a vital role in shaping identities and cultures. Students are encouraged to reflect upon the different perspectives and issues arising from this cultural diversity and study European cultures within a wider international and global viewpoint. Sustainability Content: Sustainability is a theme fo the course content and a guest speaker is also invited to take to the subject.
	JE301: Fifth Semester Japanese		1	Conversation, advanced grammar, and writing of Kanji. Students read stories in Japanese and write shore letters and compositions. Section containing speaking about environmental articles of discussion included.
	JE302:Sixth Semester Japanese		1	Conversation emphasizing "honorific" expressions in business settings and cross-cultural communication. Continued learning of Kanji for reading and writing. Section containing speaking about environmental articles of discussion included.
	FH301: Advanced Composition and Grammar Review		1	Strong emphasis on reading, writing, and grammar review. Students approach writing as a process. Different writing genres are explored, including description, narration, exposition, argumentation and literary analysis. Students study and critique model compositions, and practice the composition process in stages. Emphasis on grammar structures and vocabulary enhancement is designed to improve written communication. Multiple drafts and peer editing of compositions are part of the process. Sustainability Content: Content of reading deals with the topic of sustainability.
	FH302:Advanced Oral Communication		1	Emphasis on speaking and listening comprehension through discussion of current issues. Sustainability Content: Content of reading deals with the topic of sustainability.

	FH327: Contemporary France		1	Taught in French. Study of contemporary institutions, society, politics, and culture. Sustainability theme is studied
	FH 413: French for Professions		1	This content-based language course, taught in French, introduces economic, business and professional terminology through the study of the following topics: financial institutions (banking, stock market, and insurance); business practices (business letters and resumes); trade and advertising; the internal structure and legal forms of French companies. One of the other goals of this course is to also prepare the students to take one of the exams offered by the Paris Chamber of Commerce and Industry: the Diplôme de Français Professionnel, Affaires, B2 (français.CCIP.fr). Sustainability theme is studied within the context of the course
	GN301:Advanced Composition and Grammar Review		1	This course places a strong emphasis on reading, writing, and grammar review. Students approach writing as a process. Different writing genres are explored, including description, narration, exposition, argumentation and literary analysis. Students study and critique model compositions, and practice the composition process in stages. Emphasis on grammar structures and vocabulary enhancement is designed to improve written communication. Multiple drafts and peer editing of compositions, including a Final term paper, are part of the process.
	GN302:Advanced German Conversation		1	This course is designed to assure students' language skills at an advanced level, especially in spoken language, through discussion of contemporary social, cultural and political issues in German-speaking countries. Topics include (but are not limited to) language change and tendencies, national and personal identities, diversity issues, foreigners, minorities, the educational system, religion, gender issues, and the role of the European Union. Sustainability content is included in topics.
	GN303:Business German		1	This course is designed for German majors and minors and International Business majors interested in learning about economic issues in a business context in Germany. Introduction of specialized vocabulary for business, economics and politics and concentration on various text types (e.g. business letters encountered in specific business situations). Course emphasizes contemporary social, economic, and political issues.

	GN309: Studies in German Culture and Society through Film		1	Intensive study of German culture and society through the viewing and discussion of representative German feature and documentary films from both East- and West Germany, and Post-Wende Cinema.
	SH302: Advanced Spanish Conversation and Diction		1	A course designed to integrate the four basic language skills: speaking, listening, writing and reading. The main focus of this course is based on controlled conversations correlated with readings, reports, debates, discussions and presentations. Topics include, among others, language, politics, national and personal identities, diversity issues, foreigners, minorities, the educational system, religion, and gender issues.
<b>History</b>	HY 101: American History		1	A survey of the political, economic, social, and cultural development of the United States from discovery of the New World to the end of Reconstruction. Sustainability: Colonists and land issues with Native Americans.
	HY 102: American History		1	A survey of the development of the United States from the end of the Civil War era to the present. Sustainability: Environmental movement in the 1970's, pollution, and the environmental and social impacts of the industrial revolution.
	HY 162: World History II		1	Survey of World History from 1500 to the present. Major topics covered include the development of the scientific world view, the industrial revolution, imperialism, revolutionary movements, modern ideologies, world war, decolonization, and the Cold War. Sustainability: Columbian Exchange and damage to the environment.
	HY 212: The Early American Republic, 1789-1850		1	Development of the United States from the end of the American Revolution to the middle of the nineteenth century. Special topics include the emergence of political parties, the Second Great Awakening, the expansion of slavery and opposition to it, the Mexican War and the growing divide between North and South. Sustainability: Overhunting and impacts of the long hunts of Daniel Boone.

	HY 214: Gilded Age and Progressive Era		1	Survey of United States social and political history from the end of Reconstruction in 1877 to 1920. Special topics include Gilded Age politics, gender relations during the Victorian era, the Woman Suffrage movement, the social and political movements of the Progressive era, and challenges to free speech during World War I. Sustainability: Teddy Roosevelt and the principles of conservation.
	HY 216: United States since 1960		1	Special topics include the Civil Rights Movement and the social changes of the 1960s, the Vietnam War, the Watergate crisis and the cultural liberalism of the 1970s, the conservative resurgence of the 1980s, the ending of the Cold War and post-Cold War America of the 1990s and the challenges of the new millennium. Sustainability: Modern environmental history.
	HY 263: The Middle Ages		1	A survey of European political, social, and intellectual history from ca. 450 to 1450. Major themes covered include the relationship of church and state, scholasticism, gender roles, feudalism, and the religious and intellectual diversity of the Middle Ages.
	HY 303: The History of China		1	A study of the cultural, political, and economic development of China with emphasis on the 19th and 20th centuries. Special topics include Confucianism, Daoism, Buddhism, European imperialism, the Communist Revolution, and U.S.-China relations. Sustainability: section on the sustainability movement in China.
	HY 357: Historiography		1	An introduction to the history of historical writing with emphasis on major schools of interpretation in history.
	HY 397: Field Experience in History		1	Up to three semester hours of credit may be earned through an internship or experience in a field directly related to history. Terms of the internship will be negotiated between the major advisor and the student. Sustainability: Environmental History is discussed.
<b>Philosophy</b>	PH 101: Introduction to Philosophical Thinking		1	Definition of philosophy; survey of principal questions in ethics, metaphysics, epistemology; philosophy of religion and political philosophy. Sustainability: Discussion of personal ethics, politics, and moral responsibility for the natural environment.

	PH 218: History of Political Thought		1	Highlights of the history of political philosophy, Ancients, Medieval, Modern social contract theories, Marxism, liberalism, and postmodernism, using primary and secondary source materials. Deals with the relationship between politics and truth; the nature of political authority; democratic theory; the nature of the good society and its relationship to particular theories of human nature. Sustainability: Personhood and rights.
	PH 231: Dimensions of Being Human		1	Considers mans relation to nature, including responsibilities that follow thereupon.
	PH 238: Environmental Philosophy		1	An examination of the various responses to the call to go beyond conservationalism and reform environmentalism of the 60's and beyond environmental ethics. Topics include: deep ecology, eco-feminism, social ecology and radical environmentalism.
	PH 244: Medical Ethics		1	Application of ethical principles to cases in medicine; end of life care, abortion, psychosurgery, informed consent, medical experimentation, genetic counseling and research, allocation problems.
	PH 315: Ancient Greek and Chinese Philosophy		1	Major philosophers between the 5th century B.C. and the 3rd century A.D. including Socrates, Plato, Aristotle, Confucius and Lao Tzu. Sustainability: Discussions of human nature and the self-sufficing of happiness
<b>Chemistry</b>	CY 101: Environmental Chemistry		1	Application of chemical concepts to eco-systems; implications of chemical technology to the social and physical environment. Specific to sustainability: the principles of green chemistry are discussed.
	CY 102: Chemistry for Non-Majors		1	The basic principles of chemistry are applied to everyday living situations. Common elements and compounds will be used to illustrate principles, some of which are acid-base theory, oxidation-reduction, radioactivity, and toxicity. The presentation of these principles may vary each semester depending on the instructor's use of history, household products or other perspective. Chemistry will be related to other disciplines, the national economy, other industries, and the future well-being of humans and the natural environment. Two hours lecture and one lab period per week. Specific to sustainability: the principles of green chemistry are discussed.



	CY 111: General Chemistry I		1	The first college course in chemistry designed primarily for science majors. Topics include atomic structure, chemical bonding, molecular structure, properties of gases, solids, and liquids, stoichiometry, and thermochemistry. Specific to sustainability: the principles of green chemistry are discussed and some lab exercises use green techniques.
	CY 211: Organic Chemistry		1	This is the first semester of a year-long course in organic chemistry for science majors. Topics include bonding, reaction mechanisms, structure, stereochemistry, and synthesis and reactions of aliphatic hydrocarbons and their derivatives. The correlation of molecular structure to physical properties and instrumentation is introduced. Specific to sustainability: several lab exercises include green chemistry content.
	CY 212: Organic Chemistry		1	Topics include carbonyl compounds and reactions, aromatic hydrocarbons, the application of instrumental methods (e.g. UV-vis, IR, NMR, MS) in the identification of the molecular structure, heterocyclic compounds. Multistep synthesis will be introduced. Specific to sustainability: several lab exercises include green chemistry content.
	CY 400/401: Undergraduate Seminar/Research		1	A two-semester introduction to chemical research. The first semester will focus on development of an individual research topic, writing a proposal, and safety considerations, and may include beginning laboratory work. Chemical Abstracts and other data-retrieval systems will be used to locate information on the theory and method needed for the project. The second semester will consist of laboratory work and will conclude with a seminar and written report on the results of the project. Specific to sustainability: Students design their own projects, some of which have focused partially or totally on green chemistry. Students are encouraged by the college to address the issue.

Theology	TY 147: The Catholic Vision		1	This course introduces students to Roman Catholic tradition and its faith, doctrines, theology, ritual, spirituality and moral life. Its goals include 1) acquainting students with the distinctive spirit of the Catholic vision and tradition as it relates to other Christian denominations and religious traditions; 2) helping students to recognize that Catholicism is a theological heritage that encompasses a rich tradition of persons, doctrines, ways of celebrating, moral living, praying and social justice; and 3) familiarizing students with the challenges that contemporary Catholicism faces in the Third Millennium. Specific to sustainability: The course contains modules relates to the intersections of environment and religion.
	TY 215: Introduction to Christian Spirituality		1	Introduces students to contemporary spirituality grounded in the quaternion nature of the human person who is called to live in relationship with God, self, others and material creation. The course helps students understand spirituality as living in the presence of God and to appreciate how the major themes of the Christian spiritual tradition have concrete implications for responding to this gracious mystery. Specific to sustainability: Discusses quadrilateral nature of human existence and the intersections of god, others, self and creation.
	TY 230: Seasons and Cycles of Faith		1	Historical, theological, and scriptural study of the seasons and feasts of the Liturgical Year; meaning of celebrating and living liturgical spirituality for contemporary persons.
	TY 250: Christian Morality		1	An Introduction to Christian ethics or moral theology that, from the Catholic moral tradition, considers ethical sources, the meaning of the acting person, and selected sexual, bio-medical and social justice issues. Themes covered include: ethics in a post-modern world, faith and ethics, church authority, conscience, natural law, sin, virtue and making moral decisions. Specific to sustainability: Environmental issues are discussed as they relate to christian morality.

	TY 255: Catholic Social Teaching		1	An introduction to the official social teachings of the Catholic Church and the lived experience of the Judeo-Christian tradition in the United States since the end of the nineteenth century. Attention is given to the theological vision, the anthropology, and the principles used by the Church in its moral reflection on the various social problems of our day including rights and duties of workers and employers, racism, sexism, attacks on the dignity of human life and the family, political tyranny, economic injustice in the Third and Fourth worlds, and war.
	TY 267: Women and Spirituality		1	This course will explore the topic of spirituality focusing especially on women. We will approach our studies through readings, class presentations and discussions on Scripture, Tradition and Church history; the anthropology/sociology of gender relations; the lives of women mystics; the experience of women in selected works of literature; the experience of contemporary women (guest speakers) and the experience of class participants. Class readings, presentations and discussions regarding all of the above will strive to incorporate varying experiences of race, culture and life stage development.
<b>English</b>	EH/WS255: Women Writers		1	This course focuses on selected texts in English by female authors and draws from all genres and periods. Several readings address sustainability.
<b>Business</b>	BS200: Fundamentals of Organizations for the Non-Major		1	An overview course which introduces the student to the functions of management, marketing, accounting, finance, and economics. Business principles, concepts, theories, and terms, together with ethics and values, are examined both academically and experientially.
	BS201: Principles of Management		1	The focus is on the study of the origin and development of management theory, processes of management, decision-making, leadership, communication, social responsibility, and international management. Emphasis on application of management principles to managing organizations.
	BS202: Principles of Marketing		1	An introduction to basic marketing concepts, including marketing strategy, pricing, promotional activities, product development, and physical distribution. Sophomore status required for traditional age students.

	BS235: Social Entrepreneurship	1		This course focuses on how social ventures are created, managed, evaluated and sustained. Emphasis is placed on understanding the opportunities and challenges of using one's managerial and specific academic skills, as well as entrepreneurial talents, to help improve people's lives by creating sustainable programs. A field component visit is involved.
	BS310: Entrepreneurship and Small Business Management		1	Deals with the successful start-up, operation, and growth of a small business with emphasis on entrepreneurship, the business environment, financial controls and planning, and administrative control.
	BS311: Advertising		1	Examines the role of advertising in marketing strategy, with a secondary emphasis on specific skills and techniques involved in the advertising process.
	BS/ES313: International Business		1	An introduction to international business theory and practice. The balance of trade, balance of payments, international business strategy options, and the various modes of conducting international trade are included.
	BS315: Culture and International Trade		1	Explores such complex elements as language and communication, cultural and pragmatic disparities of background, and other issues critical to successful international business relations.
	BS316: International Marketing		1	Deals with the transaction activities occurring in the international marketplace. Other aspects of international marketing include international channels of distribution, trade promotion activities of governments and other agencies, practices related to foreign operations, licensing arrangements, and the environmental framework of international marketing organizations.
	BS/PG321: Industrial Psychology		1	An overview of the theoretical and pragmatic applications of the principles of industrial psychology. Topics include organizational settings, jobs and their requirements, personnel selection and evaluation, job and work situations, accidents, and human errors, and the psychological aspects of consumer behavior.

	BS325: Ethics and the Ecology of Commerce	1		This course reviews classical positions in ethics as well as current Catholic social teaching in the areas of morality and the role of business. Relationships between business institutions and the natural ecology are then examined. Environmental impacts are explored in terms of raw material extraction, pollution, methods of costing and the long-term sustainability of economic growth. Mechanisms for full costing are explored, as are market growth opportunities, which may be found in the impetus for pollution control and environmental clean up. Regional, national, and international aspects are considered with particular emphasis upon the development of international agreements.
	BS/PG355: Organizational Behavior		1	Examines organizational behavior from both theoretical and historical perspectives, dealing with the diagnosis of individual issues and group issues, the development of an understanding of organizational issues, and concludes with the topic of changing organizations.
	BS356: Organizational Leadership		1	Focuses on the process of influencing individuals and groups toward organizational goals, including such topics as the evolution of leadership theory, leadership effectiveness, and situational leadership.
	BS357: Public Relations		1	A comprehensive study of the role of public relations in contemporary organizations. Topics include planning issues, international public relations, specialty applications, and product publicity. Critical examination of public relations techniques and ethical issues occurs throughout the course.
	BS/PG360: Consumer Behavior		1	Analysis of the complex process of buying behavior through systematic development of a behavior model utilizing concepts from psychology, sociology, and social psychology.
	BS/PG372: Training and Development		1	Review of techniques to determine training needs, to develop appropriate programs, to select methods of presenting these programs, and to evaluate program effectiveness. Includes application of instructional design and adult learning theory to design of learning experiences.
	BS410: Human Resource Management		1	An overview of human resource management, including staffing, employee development, labor relations, remuneration, security, and performance evaluation.

	BS414: Supply Chain Management		1	Reviews the nature and organization of supply chain management, including all components involved in the movement of goods from source to end-user.
	BS415: Sales Management		1	BS415 Sales Management (3) Deals with the functions and challenges facing managers in the sales area, including sales techniques, recruiting, selecting and training sales personnel, motivation, supervision, evaluation of sales personnel, compensation plans, and territory management.
	BS425: Not-for-Profit Organizations: Theory and Practice		1	Designed as a seminar, this course will explore not only the unique characteristics of not-for-profit organizations but also the problems which they face in today's society. Case analyses, selected readings, and lectures will be utilized to facilitate both discussion and understanding.
	BS442:Cases in Marketing Management		1	An analysis of the development and implementation of effective marketing strategies through case studies, demonstrating the application of sound marketing principles in decision-making, management, and market forecasting.
	BS457:Cases in Public Relations		1	A case analysis course focused on the challenges confronted by organizations. Cases deal with developing strategies and programs to respond to public relations problems and opportunities faced by both for-profit and not-for-profit organizations. Topics include crisis management, strategic planning for public relations, and management of the public relations function.
	BS460: Ethical Application in Business	1		Principles and perspectives of ethical business and organizational decision-making are studied and applied to a variety of decisions. Emphasis is placed on the identification of ethical choices in the context of the conflicting pressures on management, both in the public and private sector.
	BS483: Marketing Strategy		1	This course develops an understanding of the organization's market niche through a detailed examination of resource allocation as it affects competitive advantage. Multiple models guiding strategic choice are reviewed. Internal processes for the formulation, coordination, and application of strategy are studied. Realistic applications are then considered.
	BS492: Cases in Business Policy		1	A case-oriented course focusing on organizational strategy and its implementation.

<b>Sustainable Business</b>	SB 100: Industrial Ecology	1		This course examines the advantages of nature-based industrial systems for humankind and the natural community. Intelligent approaches to sustainable energy and material systems are outlined and discussed. A wide variety of organizations that have begun a transition toward sustainable business practices are examined.
	SB 200: Sustainable Energy Systems	1		This course examines production and consumption of various forms of sustainable energy appropriate for business. Subtopics include global and regional pollution issues, climate change, carbon sequestering, and energy efficiency. Renewable energy sources examined include solar, wind, fuel cells, hydrogen combustion, tidal, and ocean thermal.
	SB 201: Sustainable Business Management	1		The course examines intelligent approaches for provisioning goods and services that result in long-term business profitability, restored natural world integrity, and the emergence of vibrant and stable communities. We will discuss the variety of strategies and components necessary for effective sustainable business management and successful real-world organization transitions inside the movement.
	SB 202: Environmental Regulatory Compliance	1		Regulatory compliance strategies for business on local, state, and federal levels are outlined. Strategies for bringing small, medium, and large businesses in compliance with air, water, and solid-waste pollution regulations are discussed.
	SB 300: Environmental Economics and Policy	1		Microeconomic theory and models of environmental economics are examined, such as common property resources, externalities, environmental accounting, contingent valuation, and maximum sustainable yield, along with the complex economic and social impacts of environmental policy.
	SB 310: Special Topics in Sustainable Business	1		Variable topics in sustainable business offered on an occasional basis.

	SB 315: Building Social Capital	1		This course examines the role of social capital in building sustainable organizations and communities. The key elements and various forms of social capital will be explored by looking at the different ways that communities develop and how the human relationship with ecological systems can be sustained and enhanced. Ways to measure social capital will also be addressed in order to strengthen the understanding of this component of sustainable business and foster its application in the workplace.
	SB 320: Sustainable Business Innovations Lab	1		We will investigate and deploy triple top-line entrepreneurial innovation, effective organizational design, workplace innovation application skills, and research/analysis methods through in-class discussions as well as practice-based projects.
	SB 330: International Perspectives in Sustainable Business	1		This course examines the deployment of sustainable business practices around the world. Class discussions, lectures and assignments will explore the variety of sustainable business models and practices which may be found in differently developing countries and regions, as well as introduce the complexities of a practicing sustainable business in a globalizing world. Students will be challenged to analyze the significance of cultural, political, and socioeconomic contexts in designing products, processes, and business strategies and models which will further sustainable business criteria.
	SB 395: Case Studies in Sustainable Business	1		This course offers an experiential approach to applying key sustainable business principles to current business challenges and opportunities. Topics examined each week will focus on a different issue related to recreating a sustainable management system for a fictional business. Writing, research and presentations will assess students' reading readiness as sustainable business professionals and agents of change.
	SB 397: Internship	1		The student works with a business or organization during a selected semester to improve its sustainable business practices.
	SB 398: Readings in Sustainable Business	1		Individually negotiated list of readings in sustainable business as established by contract between the student and professor.
	SB 399: Independent Project	1		Individually negotiated project established by contract between student and professor.



<b>Music</b>	MCTH102: Studio Recording		1	A 'hands on' introduction to the basics of sound recording. This class provides the opportunity to work on a personal project, while gaining knowledge of and experience with audio equipment, including the Pro Tools audio workstation. Sustainability is a common module.
	MCTH104: Basics of Music		1	This is a general course in music (with no prior experience in music required) that introduces the fundamentals of basic musicianship: use of the keyboard, written notation, structures of western tonal and rhythmic practices, and aural skills. Sustainability is a common module.
	MCTH202: Studio Recording 2		1	This class focuses on the use of audio effects, MIDI, sequencing, and learning to understand technical language such as audio specifications. As in the previous class, a personal project is used to experiment with newly acquired knowledge. Sustainability is a common module.
	MCTH352: 20th Century Analytical Techniques		1	techniques; there is no single common practice in this music, rather, a wide spectrum of materials and treatments. This course is designed to familiarize students with the most widely used of these, including extended tertian harmony, quartal and secondal harmony, church modes, pandiatonicism, polytonality, interval sets, atonalism, twelve-tone serialism, synthetic scales, rhythmic and metric devices, and changes in music notation that have occurred due to the composition of music with aleatoric elements. Sustainability is a common module.
	MCTH398: Readings in Music Theory		1	Sustainability is an occasional module
	MCTH399: Independent Project		1	Independent study. Study may cover, but not be limited to, the following areas: studio recording project; advanced composition; arranging or sequencing with midi technology; Schenker analysis. Sustainability is a common module.

MCTH415: Instrumentation/Orchestration		1	Through the study and application of a variety of integrative analytical models, the instrumentation/orchestration student will demonstrate competence in his or her ability to understand and express in verbal and written language, all facets under study of the various acoustic qualities of string, wind, and percussion instruments plus an understanding of the conventional pitch range, transposition, and most characteristic scoring practices applied to all the musical instruments belonging to the aforementioned instrumental groupings. Sustainability is a common module.
MCHL/TY 130: Music in Liturgical Celebration		1	Integrated study of music and liturgy; historical, theological study of basic liturgy and function of music in liturgy; musician's role in a parish. Sustainability is a common module.
MCHL213: Music Appreciation		1	This course is designed for the student who desires to cultivate an awareness of many repertoires and musical styles from earliest times to the present, through both a live performance and in-class listening survey of the world of music. Sustainability is a common module.
MCHL214: The History of Popular Music		1	Introduction to the many types of popular music; evolution, influence upon each other, personalities, times, and places; technological changes in means and media. Sustainability is a common module.
MCHL215: History of Jazz		1	General introduction to jazz; origins of early jazz, places and styles of jazz development; emphasis on live and recorded music. Sustainability is a common module.
MCHL310: Special Topics in Music		1	Sustainability is a common module.
MCHL329: Vocal Literature/Pedagogy		1	Survey of vocal music for solo voice from the 17th century to present; application of the IPA system; review interpretive technique in all stylistic periods; study of the anatomy of the voice and current voice methods, texts and journals. Sustainability is a common module.
MCHL330: Instrumental Literature		1	History of the instrument specific to student's applied area, through the examination of its literature and interpretation from its beginning to the present. Sustainability is a common module.
MCHL331: Organ Literature		1	History of the organ, its literature and registration from earliest times to present. Sustainability is a common module.

	MCHL350: Music History and Literature I		1	This course is designed to cultivate an awareness of the development of western music from Antiquity through the Classic Period. Students will gain knowledge and familiarity with the historical events, styles, forms, instruments, composers and compositions representative of the eras studied. Sustainability is a common module.
	MCHL351: Music History and Literature II		1	This course is designed to cultivate an awareness of the development of western music from the Romantic Period through present day. Students will gain knowledge and familiarity with the historical events, styles, forms, instruments, composers and compositions representative of the eras studied. Students will also be introduced to world music. Sustainability is a common module.
	MCHL398: Readings in Music History and Literature		1	Independent study. Sustainability is a common module.
	MCHL399: Independent Project		1	Independent study. Sustainability is a common module.
	MCED209: Marching Band Techniques		1	Sustainability is a common module.
	MCED285: Elementary General Music Methods and Materials		1	Principles, procedures, and materials used in grades K-6. National and State Standards in K-6 music education will be integrated into the course material, as well as the development of Classroom Management Plan. Sustainability is a common module.
	MCED310: Special Topics in Music		1	Sustainability is a common module
	MCED315: Conducting Fundamentals		1	Offered both as a basic course in conducting and concurrently with MCHL304 and 305 as a one-semester course requirement for all in the Choral and Instrumental music education as well as Liturgical Music programs, students in this course will learn and be drilled in the common, as well as some complex, meter conducting patterns. Cueing and basic interpretive gestures will be included. Sustainability is a common module.

	MCED323: Advanced Conducting Techniques		1	Offered as a as a continuation of MCED 315 Conducting Fundamentals, this course is designed for those students showing marked skills in the art of choral conducting. During the course, thorough study and performance of a variety of musical works will help to hone one's skills. Emphasis will be placed on effective gesture in order to facilitate the communication that will evoke appropriate ensemble responses in performing literature from all musical eras. Sustainability is a common module.
	MCED385: Secondary Choral Methods and Materials		1	This course is designed to provide Choral Supervision students with the methods, materials and experiences needed to be successful teachers at the Junior/Senior High School level. Sustainability is a common module.
	MCED398: Readings in Music Education		1	Sustainability is a common module.
	MCED399: Independent Project		1	Sustainability is a common module.
	MCED414: Observation and Directed Teaching		1	This course is the Elementary Music Choral section required of all B.M.Ed. in Choral Supervision candidates. During the Student Teaching semester (12 credits total), the candidate will complete Academic Programs 215 a minimum 14-week internship in local Elementary, Middle and Secondary schools under the direct supervision of experienced certified and tenured Music Teachers. Weekly seminars and weekly journal writing, assigned readings, fulltime teaching. Sustainability is a common module.
	MCED423: Observation and Directed Teaching		1	This course is the Elementary and Junior High - Instrumental section required of all B.M.Ed. in Instrumental Supervision candidates. During the Student Teaching semester (12 credits in total), the candidate will complete a minimum 14-week internship in local Elementary, Middle and Secondary schools under the direct supervision of experienced certified and tenured Music Teachers. Sustainability is a common module.

	MCED424: Observation and Directed Teaching		1	This course is the Junior High - Choral section required of all B.M.Ed. in Choral Supervision candidates. During the Student Teaching semester (12 credits in total), the candidate will complete a minimum 14-week internship in local Elementary, Middle and Secondary schools under the direct supervision of experienced certified and tenured Music Teachers. Weekly seminars and weekly journal writing, assigned readings, fulltime teaching. Placements are made and secured no less than one semester in advance through the School of Education in consultation with the Music Department. Sustainability is a common module.
	MCED433: Observation and Directed Teaching		1	This course is the Senior High - Instrumental section required of all B.M.Ed. in Instrumental Supervision candidates. During the Student Teaching semester (12 credits in total), the candidate will complete a minimum 14-week internship in local Elementary, Middle and Secondary schools under the direct supervision of experienced certified and tenured Music Teachers. Weekly seminars and weekly journal writing, assigned readings, full-time teaching. Placements are made and secured no less than one semester in advance through the School of Education in consultation with the Music Department. Sustainability is a common module.
	MCED434: Observation and Directed Teaching		1	This course is the Senior High - Choral section required of all B.M.Ed. in Choral Supervision candidates. During the Student Teaching semester (12 credits in total), the candidate will complete a minimum 14-week internship in local Elementary, Middle and Secondary schools under the direct supervision of experienced certified and tenured Music Teachers. Weekly seminars and weekly journal writing, assigned readings, fulltime teaching. Sustainability is a common module.
	MCAP123, 124: Piano Techniques I and II		1	Piano Techniques I and II are a sequence of two courses which are skill-based courses designed to give the Music major or minor a solid and focused beginning in melodic, harmonic, and scalar playing on the piano. Sustainability is a common module.
	MCAP125, 126, 225, 226, 325, 326, 425, 426: Studio Applied Piano		1	Four-year sequence of private study at the college level. Classical and Jazz sections are offered. Sustainability is a common module.

	MCAP127, 128 : Piano Class		1	Group approach to beginning piano skills. Sustainability is a common module.
	MCAP131, 132, 231, 232, 331, 332, 431, 432: Studio Applied Organ		1	Four-year sequence of private study at the college level. Sustainability is a common module.
	MCAP138, 139: Group Guitar Class		1	Group approach to the tablature, notation, and techniques in guitar performance. Sustainability is a common module.
	MCAP141, 142, 241, 242, 341, 342, 441, 442: Studio Applied Voice		1	Four-year sequence of private study at the college level. Classical and Jazz sections are offered. Sustainability is a common module.
	MCAP151, 152, 251, 252, 351, 352, 451, 452: Studio Applied Instrumental		1	Four-year sequence of private study at the college level. Instruction in string, woodwind, percussion, or brass. instruments. Sustainability is a common module.
	MCAP165, 166: Voice Techniques Class I and II		1	All beginning voice majors, minors or elective students will gain the necessary foundation, through study, exercises and songs, for successful vocal development at the college level. Study of a variety of song literature, the anatomy and physiology of the voice, Alexander Technique, and other current techniques will be incorporated as the basis for building a strong and healthy singing life or vocal career. Sustainability is a common module.
	MCAP217: Accompanying Fundamentals		1	Designed as an introductory course in basic techniques of accompanying through lecture, listening, and practical experience. Sustainability is a common module.
	MCAP310: Special Topics in Music		1	Sustainability is a common module.
	MCAP318: Accompanying Practicum		1	A continuation of Accompanying Fundamentals with practical application of skills in a performance setting. Sustainability is a common module.

	MCAP323, 324: Jazz Piano Applications and Techniques I and II		1	A two-semester course in jazz techniques and applications designed specifically for music education majors. Because the piano is the most comprehensive and immediate source of tonal harmony in all music, particularly jazz, the course will necessarily center on the piano techniques required to explore, direct and understand the specifics of jazz harmony as they apply to the musical structures and various styles found in jazz performance. Sustainability is a common module.
	MCAP399: Independent Project		1	Independent study. Sustainability is a common module.
	MCEN/TE250: Musical Theater Workshop		1	Exploring the actor/singer/dancer by concentrating on acting the song, vocal production, dance, musical theatre auditions, and performance. Sustainability is a common module.
	MCEN158, 258, 358, 458: Jazz Combo, Instrumental or Vocal		1	Sustainability is a common module.
<b>Accounting</b>	AG210: Principles of Accounting 1		1	Introduction to financial accounting and its application to the reporting needs of organizations. Topics include basic accounting processes and procedures, financial statement preparation and analysis, internal control, and the recognition and measurement of accounts included in financial reports.
	AG211: Principles of Accounting 2		1	An introduction to managerial accounting concepts and the use of accounting information for planning, control and decision-making. Topics include costing of products and services, cost-volume-profit analysis, budgeting, performance evaluation, and costs relevant to decision-making.
	AG315: Cost Accounting		1	Topics include cost definitions, product and service costing, activity-based costing, standard costs, flexible budgeting, planning and controlling costs, and other related topics.
	AG409: International Accounting		1	Introduces students to international accounting and reporting principles. Includes Applied Science 101 review of key factors that influence accounting standards and practices in different countries. Major emphasis on the convergence of worldwide standards. Sustainability is a special topic.

	AG410: Advanced Accounting		1	A review of complex accounting areas including, but not limited to, business combinations and consolidations, partnership accounting, and international accounting.
<b>Biology</b>	BY123: Environmental Biology	1		Introduction to aquatic and terrestrial ecosystems, with emphasis on human influences. Field experience based labs.
	BY 201: Global Ecology	1		A course on the ecology, biology, and natural history of a particular destination country. A seminar portion on campus during the spring semester is complemented by a travel portion in May. Seminars cover basic ecological concepts as well as the structure of communities in the destination country. Adaptations of local organisms and threats they face are also discussed. The travel component follows in May, immediately after the end of the semester. The trip features visits to ecosystems studied in class, observing and recording species encountered on these visits.
	BY352: Ecology		1	Population, community and ecosystems ecology; interactions between populations; particular emphasis on modeling ecological phenomena.
<b>Communication</b>	CN301: Intercultural Communication		1	Analysis of verbal and nonverbal language relativity and potential barriers and breakdowns in communication between individuals of differing cultures, subcultures, including not only national and ethnic differences, but also differences in age, sex, vocation, financial status, etc.
	CN302: Communication Ethics		1	Principles and perspectives of ethical speech communication are studied and applied to a variety of private and public communication situations. The impact of honest versus deceptive communication of the individual and society is evaluated.
	CN/WS311: Gender Communication		1	Principles and perspectives of the similarities and differences in men's and women's communication. Presents skills that men and women can use to communicate more effectively.
	CN401: Organizational Communication		1	Human communication in organizations, including groups and dyadic communication operating in the organizational structure.
<b>Economics</b>	ES213: Macroeconomic Principles		1	Introduction to the economic problem and the study of economics; basics of supply and demand; introduction to concepts and models used to understand the business cycle (fluctuations in national income and employment) and inflation; basics of international finance.



	ES214: Microeconomic Principles		1	Introduction to the economic problem and the study of economics; basics of supply and demand; introduction to concepts and models used to understand the economic behavior of households and firms, economic outcomes under various market structures, market failures, and international trade
	SB/ES300: Environmental Economics and Policy	1		Microeconomic theory and models of environmental economics are examined, such as common property resources, externalities, environmental accounting, contingent valuation, and maximum sustainable yield, along with the complex economic and social impacts of environmental policy.
	ES403: Intermediate Macroeconomics		1	Study of the theoretical models used to understand business cycles and inflation and to evaluate fiscal and monetary policy.
	ES404: Intermediate Microeconomics		1	Study of the theoretical models used to understand the economic behavior of households and firms, the outcomes to be expected under different market structures, and market failures; introduction to ways of assessing the efficiency and justice of market systems.
	ES435: Development Economics		1	A study of economic development from primitive agricultural economies to modern manufacturing and post-industrial economies. Subjects include the many economic changes that accompany economic growth and why economic growth does or does not occur.
<b>Education</b>	EN 275: Science for Classroom Teachers		1	This is a course designed to strengthen competencies in the teaching of Science at elementary and middle school levels. This course will emphasize science content and best practices/strategies for the teaching of science. Learning in this course is constructive, inquiry-driven, and project based. Participants will work in small groups, perform investigations, discuss concepts and results, keep journals, and learn how to effectively utilize inexpensive, readily available materials and explore local resources.
	EN 300: Geography in Education		1	Designed to assist elementary and secondary teachers in procuring, analyzing, and organizing geographic Academic Programs 145 materials into meaningful units of work consistent with contemporary objectives of geography.

	EN 321: Curriculum Development in Early Childhood Education		1	Curriculum Development in Early Childhood Education focuses on content and methods for planning and implementing developmentally appropriate and culturally relevant activities and environments designed to enhance children’s physical, social emotional, language, cognitive, and aesthetic development; awareness of various forms of discrimination and identification of bias in materials; and application of methods that foster respect and appreciation for cultural and linguistic diversity. Inspired by the Reggio Emilia approach, an emergent negotiated curriculum process, promotion of meaningful family and community relationships and inclusion of children with special rights are addressed.
	EN 367: The Hispanic in the U.S.		1	The population of the United States is comprised of an increasingly diverse group of cultures. We cannot identify one distinctive “American culture.” Instead we have a constantly changing, inclusive multicultural society that encompasses a diverse population related to all people and nations on the planet. This course is designed to present students with an understanding of the identity dynamics of the major Hispanic groups in U.S. history. Special attention is given to key geographical areas, immigration and demographics, process of acculturation and assimilation to mainstream society, the diversity within Latino ethnic and national communities in the U.S., Hispanic literary history and consciousness, biculturalism, the ramifications of the intersection of the different Hispanic cultures and the realities of the past and current presence of Hispanics in the U.S. as the first colonizers and special immigrants.

	EN 450: Methods in Social Studies		1	The population of the United States is comprised of an increasingly diverse group of cultures. We cannot identify one distinctive "American culture." Instead we have a constantly changing, inclusive multicultural society that encompasses a diverse population related to all people and nations on the planet. This course is designed to present students with an understanding of the identity dynamics of the major Hispanic groups in U.S. history. Special attention is given to key geographical areas, immigration and demographics, process of acculturation and assimilation to mainstream society, the diversity within Latino ethnic and national communities in the U.S., Hispanic literary history and consciousness, biculturalism, the ramifications of the intersection of the different Hispanic cultures and the realities of the past and current presence of Hispanics in the U.S. as the first colonizers and special immigrants.
<b>Environmental Science</b>	EL100: Introduction to Environmental Studies	1		Introduction to principles of environmental relations and processes; survey of environmental literature.
	EL301: Advanced Environmental Studies	1		In depth examination of toxins and waste, natural systems and services, biodiversity, energy issues, climate change, and environmental policy
	GY101: Earth Environments	1		Natural elements of environment and effects on humans: seasons, radiation, wind, moisture, climate, as well as landforms resulting from running water, ice, wind, gravity, marine activities, and tectonic processes.
	BY123: Introduction to Environmental Biology	1		Introduction to aquatic and terrestrial ecosystems, with emphasis on human influences. Field experience based labs.
	CY101: Environmental Chemistry	1		Application of chemical concepts to environmental systems; implications of chemical technology to social and physical environment.
	CY102: Chemistry for Non-Major		1	An introductory survey of the role of chemistry in society. The basic principles of chemistry are applied to everyday living situations. Common elements and compounds will be used to illustrate principles, some of which are acid-base theory, oxidation-reduction, radioactivity, and toxicity. Chemistry will be related to other disciplines, the national economy, other industries, and the future well-being of humans and the natural environment. Laboratory experiments will be conducted during the lecture period.

	GY120: Human Geography		1	The geographic subfield of Human Geography discusses and interprets the role of human beings as they are distributed across the surface of the earth. This is a far-ranging field of inquiry that incorporates information from the traditional social scientific realms of economics, sociology, political science, and anthropology into a spatial analysis of the world around us. Given the nature of Academic Programs 167 the topic, this course will be introductory in nature and examine the breadth of cultural geographic thought
	SY103: Cultural Anthropology		1	Analysis of human cultural adaptations in various societies around the world.
	SB100: Industrial Ecology	1		This course examines the relationship between our industrial infrastructure and the natural world. We will discuss natural production processes and the advantages of incorporating nature-based designed systems in human industry. We will examine intelligent energy choices, essential nutrient cycling, advantageous facility and process design. Currently existing business examples that provide significant competitive advantages for companies as well as possible future innovations are discussed.
	EL310: Special Topics in Environmental Studies		1	Variable topics in environmental studies offered on an occasional basis.
	SB201: Environmental Business Management	1		This course examines successful environmental management practices that enhance the profitability and sustainability of extraction, processing, manufacturing, and retailing businesses. It also integrates social issues, environmental problems, and technical opportunities that face today's business managers. Non-traditional management approaches are discussed that increase profits for industry, enhance environmental integrity, and create a productive employee work communication, and social responsibility are discussed.
	GY370: Geography of Natural Resources		1	Spatial distribution of natural resources, production, and consumption.
	GY462: Geography of Water Resources		1	Water resources and their management. Topics include the hydrologic cycle, irrigation, hydro-electric power, recreation, agricultural water usage, pollution, and desalinization.

	EL395: Field Experience in Environmental Studies		1	Field-based program established by contract between instructor and student.
	EL398: Readings in Environmental Studies		1	Individually-negotiated program of readings on selected topic established by contract between instructor and student.
	EL399: Independent Project in Environmental Studies		1	Individually-negotiated project of defined nature established by contract between instructor and student.
<b>Geography</b>	GY101: Earth Environments	1		Natural elements of environment and effects on humans: seasons, radiation, wind, moisture, climate, as well as landforms resulting from running water, ice, gravity, marine activities, and tectonic processes.
	GY129: Physical Geography of Michigan		1	Detailed analysis of the physical characteristics of Michigan; emphasis on weather, land forms, geology, and environmental problems.
	GY130: Geography of Michigan		1	Analysis of physical and cultural environments of this politically defined area; emphasis on weather, climate, land forms, political, social, and economic features
	GY212: Urban Geography	1		Urban environment and landscape from a human perspective: the city as an economic environment, as a cultural place, as a political entity, policies and planning.
	GY220: Advanced Physical Geography: Earth Environments	1		In-depth study of selected topics introduced in GY101; emphasis on contemporary environmental situation. Four hours lecture each week, scheduled field trips.
	GY221: Advanced Cultural Geography: Contemporary Environments	1		GY221 Advanced Cultural Geography: Contemporary Environments (4) Analysis of cultural geographic relationships in selected major world regions; 172 Academic Programs cultural processes, land-use patterns, and environmental interactions; American, European, and non-Western examples.
	GY264: Economic Geography	1		Spatial distribution of economic features as they affect production, exchange, and consumption of goods and services: emphasis on locational theory regarding manufacturing and retail service centers.
	GY270: Geographical Perspectives on Agriculture and Food Production	1		Agriculture and food production, origins, evolution, and current patterns. Ecological analysis of traditional and modern agriculture and patterns of development in the U.S. and Third World.

	GY313: Advanced Urban Geography	1		For those students who wish to further pursue topics discussed in GY212 as well as research areas of specific interest.
	GY350: Climatology/Meteorology		1	Weather elements and introduction to world climatic characteristics and locations; applied climatology.
	GY351: Advanced Climatology/Meteorology		1	Advanced study of materials introduced in GY350. Students are encouraged to research topics of special interest.
	GY360: Biogeography		1	Biogeography is the study of species and how they are arranged upon the landscape. It explores both the distribution of plants and animals on the earth as well as the ecological processes that underlay those arrangements.
	GY370: Geography of Water Resources		1	The Geography of Water Resources is a course that looks at the nature and Academic Programs 173 distribution of the water resources that our society depends upon. A sizeable portion of the course will detail the characteristics of the different sources of water as well as the myriad environmental and legal problems that arise from our usage of this resource.
	GY413: Urban and Regional Planning	1		Planning practices for urban areas; emphasis on urban growth, land use, and urban problems
<b>Political Science</b>	PS 150: The World In Crisis	1		Introduction to the dynamics of global interaction and international relations. Developing of a basic understanding of the international system and modes of conflict and cooperation in international problem areas such as Bosnia, Nicaragua, Northern Ireland, Chiapas, East Los Angeles, Haiti, Somalia, American Embassies, Tokyo subways, Iraq, Kuwait, Arab-Israeli relations, human rights violations, armed conflict, poverty, environmental degradation, religious confrontation and diplomacy.
	PS 203: Urban Government and Politics		1	The governance and problems of cities is the focus of this course. Planning, decision-making, issues and solutions are developed in this introduction to the politics and power structures in America's Urban settings.

	PS/WS325: Feminist Theory and Activism		1	This course is designed to explore different ways of thinking about sex/gender, power, and justice, and examines how different theories of gender, power and justice shape political activism. By comparing a variety of theoretical perspectives (such as liberal, Marxist and radical feminism), we look at different possibilities for analyzing core feminist concepts and the practical implications of theory.
<b>Sociology</b>	SY103: Cultural Anthropology	1		Analysis of human cultural adaptations in various societies around the world.
	SY402/EN402/EN502: Communities and Watersheds	1		Examination of the interface of communities and watersheds and the associated issues of stewardship and sustainability, using the Grand River and Grand Rapids as an example of the social significance of waterways in U.S. urban development.
<b>Women Studies</b>	WS 100: Introduction to Women's Studies		1	This course is designed to introduce students to Women's Studies as an area of interdisciplinary study and research. Students will read classic and contemporary texts from a variety of disciplines in the Humanities, Social Sciences, and Sciences. Topics include women's contributions to the arts, sciences, and religion, an overview of feminist/womanist theory, epistemological issues, and feminist research methodologies. The course offers students the opportunity for cultural and cross-cultural study of the effect of representations and the various ways assumptions about gender, race, class, ethnicity, and sexual orientation impact identities and shape perceptions, thinking, and actions in everyday life. Specific to sustainability, the course includes a module on sustainability women's and men's personal care products, and an introduction into eco-feminism.
	WS/EH 255: Women Writers		1	This course focuses on selected texts in English by female authors and draws from all genres and periods.

	WS260: Women and the Environment	1		This course explores representations and theories of ecofeminism that connect nature and women, as well as the work of pioneering and contemporary environmental advocates, such as Rachel Carson, Wangari Maathai, Vandana Shiva, and West Michigan women who have led the modern environmental movement. Through a range of readings, written responses, discussion, and a final community engagement project, students apply course models to shape an environmental consciousness for themselves.
	WS/SY315: Women and Development		1	This course examines women's involvement in development and social change activities across diverse societies. Sociology and women's studies theories and analyses are used to understand development roles played by women in public and private spheres.
	WS/PS325: Feminist Theory and Activism		1	Feminist Theory and Activism is designed to explore different ways of thinking about sex/gender, power, and justice, and examines how different theories of gender, power and justice shape political activism. By comparing a variety of theoretical perspectives (such as liberal, Marxist and radical feminism), we look at different possibilities for analyzing core feminist concepts and the practical implications of theory.
	WS398: Independent Readings		1	These courses may be taken with the approval of the Director of the Women's Studies Program.
	<b>Total Undergraduate</b>	<b>40</b>	<b>169</b>	

## Graduate Sustainability Courses

Department	Course	Sustainability Course	Course that Includes Sustainability	Other Details



<b>Management</b>	MG 500: The Economic Environment		1	This is a course in Managerial Economics, which focuses primarily on the microeconomic environment in which a manager must operate. Besides understanding how market structures affect firm performance, the course explores the use of economic concepts as managerial tools.
	MG 520: Organizational Behavior: Focus on the Individual		1	Individual factors affecting human behavior in organizations are explored in this course. Theoretical concepts which provide the foundation for the study of organizational behavior are examined together with an emphasis on leadership, team development, motivation, and communication. Application of these concepts to the management of organizations is accomplished through class activities. While the focus is almost entirely on the core organizational behavior topics, the development of a management philosophy and the understanding of the link between both managerial activities and organizational effectiveness are used as integrating themes.
	MG 530: Marketing Management		1	Policy formation through marketing management is studied with special emphasis on the influence of marketing institutions, market structure, governmental regulations, and fluctuations in population and national income.
	MG 540 Organizational Theory and Design	1		This course treats the organization as an entity for study, looking at such issues as the historical growth of organizations, organizations as reflections of society, organizational structure, mission, goals, culture, and politics. (Macro O.B.). Emphasis is given to the examination of the characteristics of open systems, studying models of organizations for their effectiveness, developing strategies for innovations and change within organizations.
	MG 570: Ethics and Social Responsibility of Management	1		A study of the role and responsibilities that organizations have in their relationship to local, state, national, and international communities. Impact on economic, social, and cultural systems, and the ultimate influences an organization has on personal and social functioning are reviewed.

	MG 580: Accounting for Management		1	An examination of techniques used in establishing standards and budgets for control with an overview of product costing and overhead applications. The course also includes the flow of accounting data in the creation of financial statements. Careful study is also given to the problems of making business decisions, budgeting and cost control, and using accounting data in planning operations and policy formulation. Sustainability is a common module.
	MG605: Contemporary Issues in Health Care Law & Ethics	1		This course provides an introduction to: Historical and current legal issues in healthcare; Regulation of health care delivery and the impacts of the regulatory environment on the availability of services; The practical applications affecting operational decision-making; Malpractice / Liability Issues; Licensing and Regulation; Legal aspects of patient care; Healthcare Fraud and Abuse; Tort, Criminal & Civil aspects; Patient Rights; Biospecimin Ownership. Sustainability is a common module.
	MG 649: Organizational Development		1	The course focuses on a systematic approach to planned organizational change. Students discuss various ways of assessing the organization's current status (strengths, weaknesses, needs, etc.), prescribing the appropriate changes, strategies and effective interventions, and planning ways to overcome resistance to change.
	MG 660: Sustainable Economics and Management Decisions	1		Microeconomic theory and models of environmental economics are used to examine issues such as common property resources, externalities, environmental accounting, contingent valuation and maximum sustainable yield. The models and theory are also used to evaluate the economic and social impacts of environmental policy, and management decisions.
	MG 671: Industrial Ecology	1		This course examines natural and anthropogenic production processes and examines the complex series of interactions among society, industry, and the natural environment. Numerous business case studies are discussed that significantly improve resource efficiency.

	MG 672: Sustainable Business Management	1		This course focuses on successful techniques used by industrial designers and business managers to concurrently increase profits, eliminate waste and toxins, and increase human social capital, especially in the local community. The second part of the course includes a number of presentations by West Michigan business leaders who currently implement sustainable business practices in their companies.
	MG 673: Building Social Capital	1		This course explores the key elements and various forms of social capital as well as ways to measure it and enhance its value to commerce and communities. Social capital's role in sustaining and enhancing human relationships with ecological systems is also examined in order to better understand how social structures, networks and norms contribute to business success and community vitality. Concepts such as corporate social responsibility, social entrepreneurship and stakeholder engagement are among those concepts embedded within the social capital framework. Course instruction will include an introduction to various theories and their application by including business and community case studies, both domestic and international.
	MG 689: Consumer Behavior		1	A study of the factors which shape and influence the behavior of consumers in the marketplace. Both macro- and micro- consumer behavior aspects are reviewed, with major emphasis on contributions from the behavioral sciences, including such topics as sensation and perception, learning and motivation, attitude formations, and group influences on consumer behavior.
	MG 690: Marketing Strategy		1	This course develops an understanding of the organization's market niche through the integration of perspectives in psychology, consumer behavior, microeconomics, finance, ethics, law, and strategic management. Strategic options for the enhancement of the organization's position are explored, utilizing applications which include market research, computer simulations, and case studies.
	MG 694: Managing 21st Century Organizations	1		To provide managers with an overview of factors currently affecting both management and organizations together with their potential future effect on work and organizations. Sustainability is a module.

	MG 695: Strategic Management and Policy-Making		1	This capstone course in the student's program is intended to consolidate the information accumulated in earlier course work in order to demonstrate the interaction of all sub-functions of the organization. Students will be placed in real-world situations through the use of cases, simulation, and actual management circumstances, and will be expected to defend any recommended actions.
	MG 697: Internship		1	Up to three (3) elective credit hours may be earned through an internship in a new area of learning and directly related to a Master of Management study area. This internship is negotiated with a full-time faculty member with related experience in conjunction with the Career Services Department.
	MG 699: Independent Project		1	An individually negotiated project of a defined nature is established by a contract between the instructor and student.
	MG 699: Independent Study		1	Required or elective courses may be taken by independent study. All independent studies must be contracted with a faculty member and approved by the Dean of the School of Management.
<b>Master in Teaching</b>	EN 581: Science for the Classroom teacher		1	Science for the Classroom Teacher(3) [Summer] This course emphasizes the practical aspects of teaching science using inquiry based constructivist approaches. It utilizes the Michigan Curriculum Framework of Benchmarks and Standards in all of the core science content areas of Life Science, Physical Science and Earth and Space Science. Science concepts, scientific methods and process skills will be analyzed and incorporated into daily lesson planning activities. This class is operated in conjunction with the Aquinas College Science Camp for students in grades 4 through 6 during the summer semester.

	EN 596: School and Culture in the 21st Century		1	<p>School and Culture in the 21st Century (3) [Fall OR Spring] Through the lenses of literature, theory, and narrative, this course analyzes public education in the United States along with the issues of a global society, as a way of informing and empowering teachers toward a stance of production and as agents of change. Components of that context include multiple perspectives of theoretical, cultural, political and economic forces. Using a multicultural critique as a foundation, the course investigates the effects on schools of changes in social stratification, especially poverty, as well as racial and ethnic demographics. In addition, the course investigates the disparities of wealth and basic human needs existing in the world today. Pre-service and practicing teachers should understand, in the age of a global economy, the needs and demands of not only their local students, but students around the world, and how each affects the other.</p>
	EN 767: The Hispanic in the U.S.		1	<p>The Hispanic in the U.S. (3) [Fall] Major Hispanic groups, key geographic areas including Southwest and selected urban areas. The migrant stream, process of assimilation and acculturation, biculturalism, dynamics of intercultural interaction within Hispanic communities.</p>
	MSE 530: Geosphere	1		<p>Geosphere (3) Concepts presented are necessary to understanding how the earth works as an active planet, and how this knowledge is crucial to our lives; for example, the influence of geology on the very existence of life on earth, the dependence of all human civilizations on rocks and minerals, the limits on the earth's resources, and the fragile nature of the earth's environments in which we live. The course is based on long-range collaborative projects.</p>

	MSE 613: Organismal Diversity and Function		1	<p>Organismal Diversity and Function (3) This is a course for certified teachers to strengthen competencies in the teaching of Science at elementary and middle school levels. This course will emphasize science content and model science teaching methods. Learning in this course is constructive, inquiry-driven, and project-based. Participants will work in small groups, perform investigations, discuss concepts and results, keep journals, utilize technology such as the internet, CD-ROMS, DVD's, as well as learn how to effectively utilize inexpensive, readily available materials and explore local resources. All course objectives are aligned with the Michigan Core Curriculum standards and benchmarks and teachers will learn those methods needed to prepare students for success in learning science, excelling in state prepared assessment instruments, and pursuing technological and scientific careers. Specifically, the course content will encompass studying specialization and organization of cells into plant and animal organisms, characteristics of plant and animal groups, and the structure and functions of cells, tissues, organs, and systems of plants and animals. Hands-on problem-solving activities are utilized together with the ethical and appropriate care of living organisms. The course includes dissections, pond study and possible visits to John Ball Zoological Garden. The diversity and components of the plant kingdom, from mosses and algae to ferns and flowering plants, will be studied in this course. Students will make discoveries about plants through hands-on labs where they will examine whole plants and plant anatomy. Comparisons of plant growth will be accomplished by manipulating different environmental conditions, including soil, nutrient, and light qualities. Some classes may be held at John Ball Zoological Garden and the Frederik Meijer Botanical Gardens where students will learn how to use these facilities as a classroom resource.</p>
	MSE 630: Atmosphere and Weather		1	<p>Atmosphere and Weather (3) Topics covered include the atmosphere surrounding the earth, how energy from the sun interacts with the earth and the atmosphere to produce the weather patterns we experience, and the effects of the weather on our environment. Activities involve how to take advantage of current technology to utilize information from the weather channel and other resources, and how to best utilize information easily available from newspapers and local weather forecasts.</p>

<b>Master in Sustainable Business</b>	SB 600 The Natural and Human Community	1		This course provides a foundation in understanding natural world themes and processes, human world provisioning systems, and the interdependencies that exists between the two. Energy, materials, community characteristics, and member relationships of both worlds are compared within the context of sustainability. The successes and failure of human industry are examined and contrasted with durable natural industrial processes.
	SB 610 Sustainable Innovations Lab	1		This course will investigate triple top-line entrepreneurial innovation, effective organizational design, and workplace innovation deployment skills through in-class discussions as well as practice-based projects. It is designed to give students exposure to all dimensions of the innovative process in a real-world environment.
	SB 650 International Perspectives in Sustainable Business	1		The sustainable business movement is surveyed from an international context and examined through an international field experience. A variety of global locations, including developing nations, is the focus of an investigation of the movement components, such as sustainable agriculture, ecotourism, locally based and regionally coordinated sustainable development, technology sharing, place-based solutions, and business interactions of education, government, and non-governmental organizations.
	SB 660 Sustainable Economics and Management Decisions	1		Microeconomic theory and models of environmental economics are used to examine issues such as common property resources, externalities, environmental accounting, contingent valuation and maximum sustainable yield. The models and theory are also used to evaluate the economic and social impacts of environmental policy, and management decisions.
	SB 671 Industrial Ecology	1		This course examines natural and anthropogenic production processes and examines the complex series of interactions among society, industry, and the natural environment. Numerous business case studies are discussed that significantly improve resource efficiency.

	SB 672 Sustainable Business Management	1		This course focuses on successful techniques used by industrial designers and business managers to concurrently increase profits, eliminate waste and toxins, and increase human social capital, especially in the local community. The second part of the course includes a number of presentations by West Michigan business leaders who currently implement sustainable business practices in their companies.
	SB 673 Building Social Capital	1		This course explores the key elements and various forms of social capital as well as ways to measure it and enhance its value to commerce and communities. Social capital's role in sustaining and enhancing human relationships with ecological systems is also examined in order to better understand how social structures, networks and norms contribute to business success and community vitality. Concepts such as corporate social responsibility, social entrepreneurship and stakeholder engagement are among those concepts embedded within the social capital framework. Course instruction will include an introduction to various theories and their application by including business and community case studies, both domestic and international.
	SB 698 Applied Research Project	1		Practicum on Sustainability
	<b>Total Graduate</b>	<b>17</b>	<b>16</b>	



















































