

Maryville College Sustainability Course(s) Inventory (2012-2014)

Sustainability Courses at Maryville College*

ART 200: Sustainable Art Processes: Respecting Nature Through Creative Form (2 offerings within the 2012-2014 reporting cycle)

This course will explore both the philosophy and the value of environmental sustainability in our society as it relates to the field of art; specifically the creation of art that meets sustainable goals and challenges society to understand and engage in sustainable practices. Our current society sees the word 'development' as a dangerous term that inevitably means the degradation of the environment, not necessarily the sustainment of it. However, through the creation of ecologically minded art and design forms, less resources can be used and they can also provide an opportunity for society to engage in discussion about ecological issues, bringing about social action and change. Students will engage in the creation of sustainable art through video production and editing, digital still-frame photography, graphic print production and illustration, mixed media, found objects, and landscape architecture/sculpture. Each student will get an opportunity to explore and learn each medium and its impact on the sustainability movement. The course will culminate at the end of the term with an entire class exhibition of their visual forms and a short presentation and lecture on the value of sustainability presented via visual forms.

BIO 222: Ecology and Evolution (3 offerings)

Prerequisite: Biology 113

A study of the basic concepts and fundamentals in ecology and evolutionary biology. Emphasis is placed on the major principles in ecology and the important integrating evolutionary concepts. Major lecture topics include: historical aspects of ecology and evolution, Darwinian evolution, adaptation, natural selection, population ecology, community ecology, physiological and behavioral ecology, and large-scale ecology. The laboratory concentrates on the design and analysis of ecological observations and experiments in the field. Some late afternoon and weekend field trips are required. (4 credit hours)

BIO 311: Natural History of the Southern Appalachians (3 offerings)

Prerequisite: Natural Science 150 or other laboratory science course

An investigation of the landforms, flora, and fauna of the Southern Appalachians. Topics include: relationships between climate, geology, and topographic features; recognition of common biotic communities; identification of characteristic plants, animals, and fungi along with their habitats; roles played by plants, animals and fungi within communities; and impact of human activity on ecosystems in the region. Laboratory exercises incorporate field work in the Maryville College woods and local points of interest, including the Great Smoky Mountains National Park. (4 credit hours)

ENV/SOC 316: Population (6 offerings)

Prerequisites: Sociology 101 or 211 and junior standing

A study of human population, including population structure and the processes of fertility, mortality, and migration. The course examines the impact of changing population, such as aging and urbanization, on social institutions and the environment. The course examines the role of

population policy in achieving social and environmental goals. (3 credit hours)

**ENV/SUS 101: Environmental Issues and Foundations of Sustainability
(6 offerings)**

An introduction to the origins and interrelationships of major contemporary environmental issues, such as global climate change, sustainable development, population, ozone depletion, deforestation, energy, and water pollution. The course examines the complexity of the issues in environmental, political, social, and economic terms. This interdisciplinary course will use sustainability concepts, theories, and applications as avenues for approaching and practicing various ways of viewing our planet. (3 credit hours)

**ENV 337: Internship in Environmental Studies
(6 offerings)**

Prerequisites: Junior standing and permission of the Division of Social Sciences Chair

Field experiences that provide practical applications in appropriate work settings. For each credit hour granted students are expected to be involved in at least 45 hours of approved activity. The duration should normally occur over a minimum of three weeks. (0 to 15 credit hours)

**ENV 345: Environmental Politics
(2 offerings)**

Prerequisite: Junior standing

A study of the political history, stakeholders, and topical issues related to American and global environmental policymaking. Comparison of environmentalism (conservation, sustainable development, deep ecology). Investigation of structure and actors making environmental policy. Survey of current global/eco-systemic issues in environmental policy (air, sea/water, energy and waste, land). Special emphasis on Tennessee and East Tennessee issues, such as acid rain in the Great Smoky Mountains, Tennessee Valley energy development, and water management in conflict with the snail darter. (3 credit hours)

**ENV 351-352: Senior Study
(12 offerings)**

Prerequisites: ENG120, English Proficiency Exam, junior standing and Social Science 301

The Senior Study requirement is fulfilled with this two-course sequence. The courses involve individual study with the guidance of a faculty supervisor. (3 credit hours each)

**HIS 248: Appalachian Culture and Social History
(3 offerings)**

This course examines the cultural and social history of Southern Appalachia from Native American settlement to the present era. As social history, the course uncovers the economic, political, community and family based relationships through which people of the region organized their lives. Particular attention will be paid to Native American-European-African encounters, the Civil War, industrialization, migration, and the political response to rural poverty in the 20th century. As cultural history, the course explores the multiple means through which the people of Southern Appalachia expressed their aspirations, fears, demands and reflections. This includes music, novels, the oral tradition, political discourse, religion, and material culture. (3 credit hours)

**OST 101: Introduction to Outdoor Studies
(1 offering)**

This is the introductory course to the professional field of recreation and outdoor studies. Particular attention will be given to the relationships between humans and nature, the relationships between nature and health, and the benefits of green exercise. The roles of public

(federal, state, and local) and private (for-and non-for-profit) providers of outdoor recreation, current issues and trends in the field, and career opportunities and professionalism will also be addressed. These various inquiries will be done in conjunction with the development of a personal environmental ethic. (3 credit hours)

OST 301: Sustainable Tourism

(1 offering)

Prerequisites: OST 101 and OST 102

The concept, principles, and practice of sustainable management are now widely acknowledged as essential factors for the tourism, leisure, and event industries. This course focuses on the fundamental concepts of sustainability that have application to the management of all forms of these industries in developed and developing countries. The class aims to provide a theoretical and practical understanding to maintain environmental, social, and economic wellbeing of natural, built, and cultural resources while protecting natural ecosystems. (3 credit hours)

OST 337: Outdoor Studies and Tourism Internship

(1 offering)

Prerequisites: OST 301 and junior standing

Supervised practical experience during the junior or senior year that enables students to apply methods, skills, and techniques learned in the classroom to outdoor studies and tourism field settings. (3 credit hours)

PHR 107: Paddling I

(3 offerings)

This paddling course is designed to introduce students to a variety of lake and river based paddling sports. Sports include: whitewater kayaking, lake and flat water kayaking and canoeing, and Stand Up Paddleboarding. The course will outline gear, paddling techniques, fitness and safety related to each discipline. (1 credit hour)

PHR 108: Paddling II

(3 offerings)

An extension of Paddling I, this course is designed to build off of principles learned in Paddling I while also acting as a stand alone course related to paddling disciplines. While elements of Paddling I focused on slow river and flat water paddling, this course will focus more on elements of whitewater kayaking and moving water. (1 credit hour)

PHR 172: Camping and Outdoor Education

(3 offerings)

This course is designed to be an introduction to both front country and back country camping. In this class, students will interact directly with an outdoor environment as they learn the basic skills, etiquette, equipment options, rules and restrictions, and best practices related to spending short and prolonged periods of time living in the outdoors. (1 credit hour)

PHR 188: Rock Climbing I

(3 offerings)

In this course students learn the basics of rock climbing related to safety, equipment usage, etiquette, climbing techniques, and climbing strength and fitness. While gaining knowledge on the subject of climbing, the majority of time in this course is spent actually climbing, either indoors at a local climbing facility, or outdoors at a premier climbing venue located in the Great Smoky Mountains National Park. (1 credit hour)

PHR 189: Rock Climbing II
(3 offerings)

In this course students build and further the skills learned and experienced in Rock Climbing I, with an extra focus on climbing safety and best practices. While the course begins on indoor walls furthering each student's fitness and active climbing skill set, the course will ultimately allow for more time on real rocks facing more challenging climbs and managing the requirements of being active inside the Great Smoky Mountains National Park. (1 credit hour)

PHR 125, 126 & 127: Mountain Challenge
(18 offerings)

Mountain Challenge courses consist of five different experiences, which must be completed before one (1) credit hour is awarded. A maximum of three (3) credit hours may be obtained to fulfill the Maryville College experiential education requirement. The following are possible Mountain Challenge experiences to select from:

- Alpine Tower
- Bicycle Trips
- Canoe Trips
- Caving
- Hiking
- Map and Compass
- Mountain Trips and Expeditions
- Outdoor or Environmentally related service projects
- Rafting
- Rock Climbing and Rappelling
- Ropes Course

PHR 315: Wilderness Emergency Response
(3 offerings)

Prerequisites: Natural Science 150 and 2 outdoor activity classes
Wilderness Emergency Response addresses emergency management situations such as patient assessment, likely wilderness medical scenarios, CPR, first aid kits, transport equipment, and the outdoor professional's role in emergency situations and search and rescue management. Course includes identifying, processing, and avoiding hazards as well as field practice. (3 credit hours)

PHR 335: Outdoor Recreation Leadership
(3 offerings)

Prerequisites: PHR 102 and 2 outdoor activity classes
The study of outdoor recreation leadership skills, activity, and safety specific to the out-of-doors. The historical background, legal issues, and environmental impact of outdoor recreational activities are considered. Field experience is included. (3 credit hours)

PHR 336: Community Health
(3 offerings)

Prerequisites: PHR 101, 236 and 237
Focuses on assessment and identification of community health needs and referral and coordination of community health services. The course includes application to problems related to mental, environmental and physical health as well as those associated with broader social issues. (3 credit hours)

SUS 337: Internship in Sustainability Studies
(1 offering)

An experiential and/or practical experience enabling students to apply classroom knowledge in

work settings. Internship proposals require faculty approval. The work experience is expected to take place during the student's junior or senior year. SUS337 may not be counted for an internship in the Environmental Studies major. (3 credit hours)

**SUS 401: Sustainability E-Portfolio
(1 offering)**

Each student will be expected to collect and reflect on coursework, internship, and research and develop these reflective resources into an e-portfolio. The e-portfolio is expected to be submitted within a semester of the student's completion of all other requirements for the Sustainability Studies minor or concurrently with the last remaining requirement of the program. Students are referred to program faculty for detailed portfolio guidelines. (1 credit hour)

Total Course Offerings 2012-2014: 90

Courses That Include Sustainability at Maryville College*

**ART 122: Introduction to Painting
(3 offerings within the 2012-2014 reporting cycle)**

Prerequisite: Art 121 or permission of the instructor

An introduction to the materials and techniques of painting. Emphasis is placed on refining powers of observation (including work from live models), composition, and color theory. (4 credit hours). *Subject matter for this course has included environmental issues and visual work for non-profit organizations.*

**ART 223: Design 2
(3 offerings)**

Prerequisite: Art 123

A problem-based, thematic continuation of Design 1. Students become more proficient with basic design software, and solve specific design problems working with real and hypothetical clients. Other topics may include typography, presentation graphics, sustainable design and production processes. Students participate in a public end-of-term critique. (4 credit hours)

**ART 323: Design 3
(3 offerings)**

Prerequisite: Art 223

A problem-based, thematic continuation of Design 2. Students solve advanced design problems in electronic and print formats. Topics may include advanced typography, pro-social design, color, multimedia, and advanced production problems. Students participate in a public end-of-term critique. (4 credit hours)

**ART 337: Internship
(8 offerings)**

Prerequisites: 4 credit hours of either Art 221, 222, 223, 224, or 225 and permission of the instructor

Opportunities are available in a variety of settings such as commercial firms, advertising agencies, non-profit agencies, or studios of professional artists. For each credit hour granted students are expected to be involved in at least 45 hours of approved activity. The duration should normally occur over a minimum of three weeks. (0 to 15 credit hours)

**ART 351-352: Senior Project
(12 offerings)**

Prerequisites: ENG120, English Proficiency Exam, 9 credit hours in a single studio area selected

from visual communication, photography, painting, and drawing, and junior standing, and | Pre- or Co-requisite: an additional 3 credit hours from the same studio area
The Senior Study requirement is fulfilled with this two-course sequence. The Senior Project involves individual research and production with the guidance of a faculty supervisor. (3 credit hours each)

BIO 315: Geographic Information Systems (GIS)
(2 offerings)

Prerequisite: Junior Standing

This course is designed to introduce students to the basic technique of geographic information systems (GIS), including cartography, attribute data, map overlays, and geoprocessing, coordinate systems, editing, data queries, and the use of GIS for acquisition, manipulation, and analysis of data. Projects in this course emphasize the use of GIS in natural resource management, ecology, and conservation. The skills learned are universally applicable where GIS is utilized.

BUS 333: Human Resource Management
(3 offerings)

Prerequisite: Business 201
The acquisition, development, and management of human resources. Applied approaches to the legal, psychological, sociological, and technical dimensions of human resources. (3 credit hours) *Issues related to employee wellness and/or sustainable productivity are discussed*

ECN 346: Environmental Economics
(2 offerings)

Prerequisite: ECN 201

A broad introduction to the field of environmental and ecological economics exploring the relationship between the economy and the environment and how economic theory can be used to study and address environmental issues. Topics include criteria for setting standards, selecting economic regulatory tools, and designing policy. (3 credit hours)

ENG 108: Fundamentals of College Writing
(6 offerings)

Prerequisite: Placement into the course

This course builds students' skills in engaged reading, critical thinking, essay organization and development, and grammar, with attention to all stages of the writing process from topic development through editing. Students write personal and persuasive essays and speeches, focusing on process and strategies vital to clear writing, including thesis, topic sentences, and choices in structure and supporting material. (3 credit hours) *Topics and writing assignments for the course have included environmental issues and sustainability.*

ENG 110: Composition and Speech I
(6 offerings)

Prerequisite: English 108 or placement into the course

This course develops students' skills in communicating clearly through writing and speech, with attention to all stages of the composing process, including analysis of the rhetorical situation, invention and drafting, choices of evidence, peer conferencing, and revision. Students complete a variety of essays and presentations, with emphasis on persuasion and basic research. Because ENG 110 particularly emphasizes grammatical proficiency, students identified as needing extra support in grammar and mechanics receive additional mandatory small-group or individualized instruction. (3 credit hours) *Topics and writing assignments for the course have included environmental issues and sustainability and one section of this course is entitled "Get Outdoors!"*

ENG 200: Words & the Land: Creative Lit From Nature**(3 offerings)**

Presented by the author of "Coldhearted River: A Canoe Odyssey Down the Cumberland" and "Paddling the Tennessee River: A Voyage on Easy Water," the course provides an opportunity to explore creative writing in different genres in response to themes or issues that emerge from thoughtful interactions with the natural world. Activities will include easy to moderate hikes in the Smoky Mountains and other areas in the region. Students will transfer these experiences into a final project of poetry, fiction, or creative nonfiction and will engage in activities that promote reflection, discussion and thoughtful criticism. Class times will vary to accommodate off-campus activities. Fee: \$20 due prior to January term. Fulfills the Experiential requirement. May not be used toward courses required in the English or Writing major.

ETH 490: Philosophical and Theological Foundations of Ethical Thought**(3 offerings)**

Prerequisite: Senior standing. Offered in the January Term, with limited offerings at other times. A senior capstone, interdisciplinary course which considers the ethical dimension of the human experience, including historic and contemporary ethical frameworks designed to engage the students' ethical stances. Students reflect on general education, major courses of study and chosen vocation. Special concern to address service, global citizenship, and responsibility for the common good. (3 credit hours)

FNA 140: Introduction to the Fine Arts: Music, Theatre, Art**(8 offerings)**

Offered in separate sections, each emphasizing a single art, such as the visual arts, music, and theatre, while at the same time examining the interrelations between the arts. An exploration of the roles of art and artists in the world, the benefits of the arts, the materials, structures, and meanings of the arts, and some of the historic and cultural heritage. The course includes active participation and practice with the creative processes of the arts. (3 credit hours); *A unit on 'sustainability in theatre' is included in one section as is sustainable design in an art section and resource sustainability in a music section.*

FYS 110: First Year Seminar**(3 offerings)**

This course introduces students to the academic expectations and practices of a liberal arts college by examining an instructor-selected topic from a variety of disciplinary approaches. Students will investigate the course topic enhancing their academic, critical thinking, and communication skills. Students will also engage in personal reflection and professional exploration. (3 credit hours) *Topics for sections of this course in the past have included titles such as "Oil & the Liberal Arts" and "Food" focused on sustainable and local food systems.*

HIS 243: World Civilization from 1500 C.E. to the 20th Century**(3 offerings)**

An introduction to the history of the world since the dawning of the modern era. Among the themes addressed are the rise of European political and economic hegemony, capitalism, industrialism, revolution, the political decline of non-Western states, imperialism, and nationalism. Short papers which call for the interpretation of historical evidence and/or for primary source analysis will be assigned. (3 credit hours)

INT 201: Contemporary Global Issues**(3 offerings)**

An interdisciplinary course comparing culture, history, geography, and institutions of various countries in the context of globalization. The course is a prerequisite to overseas study for students majoring in International Business or International Studies who intend to take academic courses for Maryville College credit in another country. (3 credit hours)

MTH 110: Quantitative Literacy
(2 offerings)

Through a problem-solving approach, students will interpret quantitative information to make arguments and draw conclusions. Course content includes: percentages, fractions, ratios, and proportions; interpreting and creating representations of data; descriptive statistics for center and spread; correlation and causation; units and relative sizes of numbers; linear, exponential, and logarithmic growth patterns; and savings and borrowing models. (3 credit hours) *Topics and final projects for the course have included environmental issues and by integrating data and statistics from energy consumption, energy reduction targets, etc.*

MTH 221: Inferential Statistics
(3 offerings)

Prerequisite: Statistics 120

Topics include interval estimation, hypothesis testing, analysis of variance, basic experimental design, nonparametric statistics, and chi-square tests. (3 credit hours) *Topics for the course have included environmental issues and by integrating data and statistics from energy consumption, energy reduction targets, etc.*

MTH 222: Regression Analysis
(3 offerings)

Prerequisite: Statistics 120

Topics include linear regression, multiple regression, nonlinear regression, and regression diagnostics. (3 credit hours) *Topics for the course have included environmental issues and by integrating data and statistics from energy consumption, energy reduction targets, etc.*

MUS 315: Introduction to Ethnomusicology
(3 offerings)

Prerequisite: Music 101 or Fine Arts 140/340 (Music Section) or permission of instructor

A study of non-art musics of the world from an ethnomusicological perspective. The course will introduce students to basic ethnomusicological concepts and methods, including field work, transcription, and analysis. Further areas of study may include historical, philosophical, and cultural study of non-art musics of the world. (3 credit hours) *Topics such as resource sustainability, sustainable materials for instrumentation and performance are included in this course.*

PHR 219: Principles of Human Nutrition
(3 offerings)

Focus is on optimal nutrition for energy, growth and health. The course includes information regarding the functions and interactions of vitamins, minerals and nutrients. Assessments, analysis and appropriate interventions are addressed. (3 credit hours) *Topics and assignments for the course have included environmental issues and sustainability as it relates to health and wellness.*

PLS 122: American Government and Politics
(3 offerings)

Introduction to the government and politics of the American national political system.

Attention is given to the historical and philosophical setting, the formal governmental structure, and the behavioral bases of the American polity. (3 credit hours) *Topics and assignments for the course have included historical and current environmental and sustainability issues and their impact on the political system.*

PLS 232: Public Policy

(3 offerings)

Prerequisite: Sophomore standing

Consideration of social, cultural, historical, political, behavioral, and structural aspects of the public policy process. Particular attention is given to the character of decision-making. (3 credit hours) *Topics and assignments for the course have included energy policy and current environmental and sustainability issues and their impact on US and International policies.*

PSY/SOC 221: Social Psychology

(6 offerings)

Prerequisite: Psychology 101

Examination of ways in which human affect, cognition, and behavior are influenced by other individuals or groups. Impression management, self concept, attitudes, persuasion, attraction, helping behavior, aggression, stereotyping and prejudice, and conformity are among the topics studied. (3 credit hours) *Topics and assignments related to social sustainability such as inclusion, diversity and social justice are included in this course*

Natural Science (SCI) 150: Principles in Scientific Investigation

(7 offerings)

Prerequisite: Statistics 120; must be taken before the junior year

These courses develop the skills and attitudes necessary to understand and use critically the scientific mode of inquiry to explore the physical world. Integrative sciences such as astronomy, geology, human ecology, pharmaceutical chemistry and zoology are presented to provide significant depth of study in both classroom and field/laboratory settings. (4 credit hours)

Natural Science (SCI) 350: Topics in Natural Science

(7 offerings)

Prerequisites: Natural Science 150; Junior standing

These courses address the profound effects of scientific inquiry and technological change on contemporary societies. They apply the scientific mode of inquiry and its philosophical and historical development to several different interdisciplinary topics in the natural sciences concerning national or global interests where scientific discoveries raise societal, economic, political, and/or ethical questions. (3 credit hours)

SLS 299: Issues in Professional Development

(2 offerings)

Prerequisites: Sophomore standing; open only to Business and Economics majors

A course for new majors to examine contemporary and professional issues in the social sciences. Students will explore their vocational goals, including an investigation of options for the significant practical experience and senior study. The course will also provide a foundation in basic MLA and research skills. Finally, each student will engage in activities that will enhance professional behaviors. (2 credit hours) *Topics and assignments related to businesses involved with economic and environmental sustainability and corporate social responsibility are included in this course*

SRS 480: Senior Seminar

(6 offerings)

Prerequisite: Senior standing

A capstone course that provides the student with the skills and opportunity to integrate across at least two of the three modes of inquiry: scientific, artistic, humanistic. The approach is thematic and draws on global perspectives. (3 credit hours) *Topics, assignments and sections related to this course have included social, environmental and economic sustainability. Some course titles include: "Designing a Sustainable Future," "Drugs, Behavior and Society" and "The*

World of Woof” to name a few

**Statistics (STA) 120: Introductory Statistics
(8 offerings)**

Prerequisite: Fundamentals of Mathematics 105 or satisfactory performance on the mathematics placement exam Note: Recommended for first year students; available to first-semester Sophomores

The course develops quantitative and computational skills necessary in the collection, organization, and interpretation of data. Topics include techniques in sampling and data organization, measures of central tendency and dispersion, an introduction to correlation and linear regression, elementary probability, confidence intervals and an introduction to hypothesis testing. The course is project oriented and the laboratory component emphasizes the use of calculators, computers and statistically-oriented software. (4 credit hours) *Topics and final projects for the course have included environmental issues and by integrating data and statistics from real-time energy consumption, energy reduction targets, etc.*

**THT 101 Introduction to Theatre (3)
(3 offerings)**

An introduction to Theatre tailored to Theatre majors and minors, with particular attention given to creating a common vocabulary, emphasizing the collaborative nature of theatre, and introducing students to the techniques used when reading and analyzing dramatic literature from the theatre practitioner’s perspective. (3 credit hours) *This course includes a unit and assignment/presentation related to ‘what is sustainability in theatre?’*

**THT 204: Theatre Production
(6 offerings)**

Course credit given to any student who is cast or works in a major technical capacity for the semester’s main stage, faculty directed production. The designated class session is used for production meetings, but the work involved includes accepting assignments necessary to mount the production. Guidelines for accountability are set by the faculty director. May be repeated for credit (1 credit hour) *This course integrates resource sustainability for production and execution of theatrical performances*

**THT 211: Stagecraft
(3 offerings)**

An introduction to the six elements of stagecraft, which include design and execution of set, lighting, costumes and make-up, as well as theatre and stage management. Students will select two of these six areas for special concentration during the term. The course consists of both classroom study and applied stagecraft. The time and type of applied work are arranged with instructor. (3 credit hours) *This course integrates resource sustainability for stage and prop production and other aspects of theatrical performances*

**Western Civilization (WCV) 190: Western Civilization: Modern Western Civilization
(6 offerings)**

The development of Western civilization between the Renaissance and the 20th century. Three key themes are integrated throughout the course: social, ethical, aesthetic ideals and realities; questions of religious and philosophical belief; and the relationship between the individual and the community. (3 credit hours) *Course topics related to global natural resource consumption, the industrial revolution and consumptive impacts on global, environmental, economic and social conditions are discussed.*

Total Course Offerings 2012-2014: 145

**all courses listed are undergraduate courses*

***descriptions are derived from aspects of one or more of the following: the Maryville College catalog, course syllabi, course information obtained by the instructors and/or program coordinators, and/or the STARS online survey regarding academic courses at Maryville College;*