

Timestamp	Faculty Name	Course	Course Tag(s)	Certificate(s) where Course is Required	Degree(s) where Course is Required
3/20/2012 15:44:19	Pierson, Janice	INT170	none	Interior Merchandising	AAS Interior Design
3/22/2012 9:41:32	Yount, Dave	PHI 216 Environmental Ethics	HU, G	Sustainability & Ecological Literacy Certificate	NA, to my knowledge
3/22/2012 15:33:46	Nachman, David	CHM107	[SQ] & [G] (Global Awarenes s tag to be dropped?)	None	None
3/25/2012 13:05:18	Kugler, Embe	BLT 140	Green Building	Construction	AAS Construction Managment
4/2/2012 12:00:16	Zimmerman	FON 135	none	Sustainable Food Systems	tainable Food Systems
4/2/2012 12:01:27	Zimmerman, Maureen	FON 143	G	Sustainable Food Systems	Sustainable Food Systems
4/2/2012 12:02:52	Zimmerman, Maureen	FON 160	none	Sustainable Food Systems	Sustainable Food Systems
4/2/2012 12:03:36	Zimmerman, Maureen	FON 161	none	Sustainable Food Systems	Sustainable Food Systems
4/2/2012 12:04:46	Zimmerman, Maureen	FON 162	none	Sustainable Food Systems	Sustainable Food Systems

4/2/2012 12:05:20	Zimmerman, Maureen	FON 163	none	Sustainable Food Systems	Sustainable Food Systems
4/2/2012 12:08:15	Zimmerman, Maureen	AGS 182	none	Sustainable Food Systems	Sustainable Food Systems
4/2/2012 12:09:42	Zimmerman, Maureen	FON 285	none	Sustainable Food Systems	Sustainable Food Systems
4/17/2012 10:06:05	Kempton, Diana	INT190	none	Interior Design	AAS Interior Design
4/18/2012 19:33:41	Bass, Steve	GCU 102	SB, G	Geographic Information Systems (GIS)	AGEC Geography, AAS Geospatial Technologies

## Brief Description of Competencies Related to Sustainability (150 words or less)

### Sustainable Building Methods and Materials

We cover a range of environmental theories and issues, and have a unit on sustainability

2. Compare levels of air pollution in other countries of the world to the problem in the U.S. 7. Describe how the ozone layer protects the earth and how CFC's deplete the ozone layer. (II) 8. Compare the seriousness of ozone depletion to global warming in various countries of the world. (II, III) 10. Use the concepts of energy and entropy to discuss the chemistry of the ozone layer and the availability of energy from fossil fuels. (II, III, IV) 11. Describe the causes and implications of global warming. (III) 12. Describe the carbon cycle and the water cycle and their global impact. (III, IV) 13. Describe approaches to alternative use of fossil fuels in the U.S. and in other parts of the world. (IV) 16. Describe the distribution of water globally and the availability of fresh water. (V) 17. Give examples of transnational problems of acid rain. (VI)

1. Describe the influence of technology on the built environment and cite examples from significant historical periods. (I) 2. Identify and describe the characteristics of major climatic regions of the world. (II) 3. Describe the influences of environmental constraints on indigenous/vernacular solutions to shelter. (II) 4. Identify and describe building solutions learned from natural systems. (III) 5. Explain the environmental aspects of sustainability. (III) 6. Describe the major cycles of solar energy. (IV) 7. Identify sources and applications for renewable energy. (IV) 8. Describe the interrelated nature of human impact on the environment. (V) 9. Describe the impact of consumption and technology on the quality of the environment. (V) 10. Explain the role of land use and on-site water management in achieving sustainable development. (VI) 11. Explain the importance of building orientation and site integration. (VI) 12. Identify the major areas and describe the major strategies for achieving energy efficiency. (VII) 13. Describe major water conservation strategies for buildings. (VIII) 14. Explain the role of embodied energy and life cycle assessment in achieving resource efficiency in building systems and materials. (IX) 15. Identify sources of indoor air pollution and discomfort and describe methods for achieving maximum indoor air quality and comfort. (X) 16. Describe building strategies for the reduction and management of solid waste. (XI) Cite examples of integrated design methods for environmentally responsible building applications. (I-XII)

Modify recipes to maximize the use of whole, local, and nutrient-dense foods. Differentiate between whole real food, and industrial food and explain the health impact of each dietary approach. Locate and evaluate resources in the community to obtain whole, nutrient-dense food.

Identify geographic factors impacting food availability.

Overview of today's food system. Covers historical events, the effects food systems have on the environment, health, and communities. Includes responsibilities of the Food and Drug Administration and the Department of Agriculture. Also covers conventional agriculture and food safety concerns. Study of the global food system and its impacts. Emphasis on the movement towards sustainable food systems.

Overview of alternative farming systems. Covers organic and alternatively grown foods production as well as the Organic Foods Production Act. Includes principles of sustainable agriculture and Fair Trade. National Organic Program also covered. example competency: Explain how alternative farming systems can lead to sustainable agriculture.

Overview of sustainable kitchen practices. Covers energy efficient appliances and equipment, as well as electricity and water conservation practices. Includes environmentally friendly kitchen products and methods for disposal of waste. Researching food sources, purchasing locally, and building relationships are also covered. Emphasis in preparing organic, seasonal and local foods, and developing sustainable menus. Challenges for a sustainable future discussed.

Create a harvesting chart and water schedule for a garden.

Apply sustainable food systems theory in a practical, hands-on setting  
Students apply principles of sustainability in selecting furnishings, finishes, and lighting types for the semester space plan project, noting sustainable attributes in schedules and notes.

Introduction to Human Geography utilizes a spatial perspective to focus upon human interaction with the physical environment. Areas of study include causes of human migration, models of economic development (including a sustainability model), agricultural production methods, patterns of urban land use, and the distribution and consumption of natural resources. Topics are explored through readings, case studies, and projects from local, national and international spheres. Specific activities include migration analyses, urban mapping, transportation mode comparisons, and water consumption modeling.