



Regenerative Studies. Course Offerings for Non-Majors and Minor Students. Fall 2019

RS 1110: Introduction to Regenerative Studies. 3 Units

Face to Face M 2:30 PM - 5:15 PM, Room 209-212. Douglas Kent, Instructor (Class Number 72019)

Online – Steve Sandifer, Instructor (Class Number 72026)

A survey of interactions between physical, biological and social systems essential for human life, including food, water, energy, shelter and waste management. Development of conscious understanding of the relationship between people and their social and physical environments, through examination of systems that sustain future generations through the regeneration of critical resources and ecosystem processes. *Course fulfills GE Area E Requirement.*

RS 3010: Life Support Processes. 3 units.

Face to Face Tu/Th 8:30 AM – 9:45 AM, Room 209-212. Staff, Instructor (Class Number 72036)

Online - Douglas Kent, Instructor (Class Number 72038)

Understanding the complex physical and biological systems, and the social context within which they occur, which provide resources and processes to meet the basic needs of human communities. These systems and processes provide water, food, energy, shelter, atmosphere, and a functional landscape. *Meets General Education, Area B5, Science and Technology Synthesis Requirement.*

RS 3020: Global Regenerative Systems. 3 units. (Class Number 72044)

T/Th 1:00 PM – 2:15 PM, Room 209-212. Steve Sandifer, Instructor

Study of the institutional factors affecting the implementation of regenerative practices needed to meet the challenges of limited resources.

Investigations of the global effects of human activities in the pursuit of food, water, energy, shelter, and waste sinks. *Meets General Education Area D4, Social Science Synthesis Requirement.*

RS 3030: Organization for Regenerative Practices. 3 units. (Class Number 72050)

W 1:00 PM – 3:45 PM, Room 209-212. Beth Anne Morrison, Instructor

Investigation of sustainable organizing processes for regenerative practices. The cultural and institutional organizing processes are examined at the global, multi-national, national, regional, local, family, and individual levels. Organizing practice is examined in the context of coalitions among government, business, community and environmental groups, and evaluated with regard to effectiveness in advancing pro-environmental change.

Meets General Education Area C3, Humanities, or D4, Social Science Synthesis Requirement.

RS 4140/4140L: 2 units and 1 unit. Current Applications in Regenerative Studies: Energy Efficiency and Energy Conservation. (Class Numbers 72046/72049) T 6:00 PM - 7:50PM, and Th 6:00 PM - 8:50 PM, Room 209-212. Eric Carbonnier, Instructor

The increasing importance of the issues of energy use, energy independence, renewable energy, and climate change necessitates an understanding of the topics of energy efficiency and energy conservation. This course explores the environmental, social, political, and economic implications of energy efficiency and energy conservation. Coursework includes class discussions of readings and current events.

RS 4500: Sustainable Communities. 3 units.

Face to Face - W 5:30 PM - 8:15 PM, Room 209-212

Timothy Kohut, Instructor (Class Numbers 72052)

Online – Timothy Kohut, Instructor (Class Number 72053)

Interdisciplinary survey and cross-cultural study of sustainable communities in relation to their built form. Examination and analysis of intentional communities as models of traditional and/or alternative patterns. Exploration of legal and economic organization of land holding or facilitating experimentation. 4 lecture discussions. Prerequisites: One GE course from each of the following sub-areas: A1, A2, A3, and C1, C2, C3 and D1, D2, D3. *Meets General Education Area C3 Humanities or D4, Social Science Synthesis.*

RS 4990: Material and Research Fabrication. 3 units. (Class Number 72058)

M/W 11:00 AM – 12:45 PM, Room 209-212. Behnam Samareh, Instructor

The primary focus of this Class will be on exploring different means and methods of production and fabrication. In this class, we will cover everything from basic shop tool operation to the beginnings of digital fabrication. This class will explore a wide range of fabrication techniques and processes including elements of conventional carpentry and wood construction. The class will also explore means of digital output including CNC milling, 3d printing, and laser cutting, as well as other new and experimental technologies and methodologies. There will be in class lectures, demos, and building assignments. Emphasis will be on sustainable and environmentally conscious design practices, material choice, and craftsmanship and the final product will be part of a system of interpretative and signage elements for the Lyle Center for Regenerative Studies.

RS 4990: Illuminating Regenerative Practices Through Alternate Realities. 3 units. (Class Number 72060)

Tuesdays 2:30 PM – 5:15 PM, Room 209-212. Travis Falsted, Instructor

In this class, Students will learn to tell the story of regenerative technologies through one of the most anticipated and least understood communication mediums yet created. We will dive into history, present day uses, and immediate future of AR and VR. What's the production pipeline? What factors make a compelling experience? How can you create a message that gets people's' attention? Once we have established the basic framework, we will discuss The Lyle Center, what makes it special, and the technologies showcased on campus. Then we will approach each installation and deconstruct which types of experiences best articulate the vision and purpose. We will conclude with a functional application students can add to their portfolios.