



## Expected Course Offerings for Minor Students & Non-Majors, 2017-18

### Fall, 2017

**RS 111: Introduction to Regenerative Studies. (Class Nbr 72961)**

**TuTh 10:00 AM - 11:50 AM, Room 209-212. Douglas Kent, Instructor**

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 301: Life Support Processes. 4 units. (Class Nbr 72964)**

**TuTh 8:00 AM – 9:50 AM, Room 209-212. Phil Wolf, Instructor**

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 414/414L: 4 units. Current Applications in Regenerative Studies: Energy Efficiency and Energy Conservation. (Class Nbrs 72982/72983)**

**MW 12:00 PM-2:50PM , Room 209-212. Cristina Halstead, 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 450: Sustainable Communities. 4 units. (Class Nbr 72965)**

**MoWe 4:00 PM - 5:50 PM, Room 15-1823. Daniel Yuhasz, Instructor**

Historical survey and cross cultural study of sustainable communities in relation to their particular 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 C4 Humanities or D4, Social Science Synthesis.*

### Winter, 2018

**RS 301: Life Support Processes. 4 units. Douglas Kent, Instructor**

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 302: Global Regenerative Systems. 4 units. Dr. Jerry Mitchell, 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 414/414L: Current Applications in Regenerative Studies: Solar Energy Systems. 4 units. Don Serio, Instructor**

Analysis of solar technologies applied to heat, power generation and associated loss mechanisms. Examines fundamental theories that form the basis of light from the sun, and how this energy stream is appropriated for human usage. The lab component utilizes projects that must be designed and built by the student to test theory. Recommended prerequisite: Beginning trigonometry.

## Winter, 2018 (continued)

### **RS 540/540L: Methods and Applications in Regenerative Systems. 4 units. Dr. Kyle D. Brown, Instructor**

Investigation and application of regenerative principles and methods to contemporary environmental problems, encompassing a broad range of social and ecological considerations. Broad environmental topics and geographic case studies will be designated by the instructor to provide a framework for student projects. Students will prepare proposals and solutions for addressing the designated topic through the development of physical interventions, policy programs, or community development strategies, which may occur at a variety of geographic scales. Open to graduate students in other programs through permission of instructor. Co-current enrollment is required.

### **RS 640: Coalition Building. 3 units. Dr. Adonio Lugo, Instructor**

Constructive processes and methods of building coalitions to strengthen public awareness and create policy supporting regenerative practices. Theory and case studies of successful partnerships among government, business, community and environmental groups. Role of the media, judicial and political processes. Three hour lecture. Open to graduate students in other programs through permission of instructor.

## Spring, 2018

### **RS 303: Organization for Regenerative Practices. 4 units. Elektra Grant, 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. These processes are analyzed in relation to population, food production, resource and waste management, energy systems and shelter. **Meets General Education Area C4, Humanities, or D4, Social Science Synthesis Requirement.**

### **RS 414/414L: Current Applications in Regenerative Studies: Edible Landscapes and Cuisine: Indigeneity, (De)colonization, and Culinary Ethnobotany. 4 units. Claudia Serrato, Instructor**

Earth-based classrooms engage students in alterNative models of learning. This course provides a space to engage the sensory body in cultivating knowledge production and application of this knowledge within ecological regenerative relationships and systems. Indigenous ways of knowing (traditional ecological knowledge) and Indigenous ecofeminisms provide critical teachings, lessons and earth-based knowledge towards a decolonial praxis of regeneration. This student-centered community will embody these teachings and apply them in identifying plants in their life cycles and life histories, identifying their edible parts, predicting their ecological flavor profiles, tasting the plants, identifying its culinary uses and preparing some edible landscape food tastings. This practice of culinary ethnobotany through active student centered engagement will too include talking circles, research, plant observations, and foraging.

### **RS 414/414L: Current Applications in Regenerative Studies: Watershed Restoration. 4 units. Dr. Jeff Marshall, Instructor**

Watershed restoration strategies integrate basic concepts of hydrology, sedimentology, geomorphology, and ecology in an effort to reverse degraded water quality and watershed function. This course explores the physical processes of watersheds and stream corridors through lectures, field trips and case study discussions. Students will engage in hands-on field work and address current watershed problems at local field sites.

### **RS 450: Sustainable Communities. 4 units. Daniel Yuhasz, Instructor**

Historical survey and cross cultural study of sustainable communities in relation to their particular 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 C4 Humanities or D4, Social Science Synthesis.**

\*course offerings are subject to availability of funding and sufficient enrollment.