RS 1110: Introduction to Regenerative Studies (3 Units)
M 1:30-4:30 PM, Instructor: Douglas Kent (Class Nbr 72670)
Online – Instructor: Steve Sandifer (Class Nbr 72671)
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 (Lifelong Understanding and Self-Development) Requirement.

RS 3010: Life Support Processes (3 units)
M 4:30-6:30 PM, Instructor: Michelle McFadden (Class Nbr 72672)
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.
Course fulfills GE Area B5 (Science and Technology Synthesis) Requirement.

RS 3020: Global Regenerative Systems (3 units)
M 5:30-8:15 PM, Instructor: Dean Kubani (Class Nbr 72676)
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.
Course fulfills GE Area D4 (Social Science Synthesis) Requirement.

RS 3030: Organization for Regenerative Practices (3 units)
W 1:30-4:30 PM, Instructor: Beth Ann Morrison (Class Nbr 72677)
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.
Course fulfills GE Area C4 (Humanities) or D4 (Social Science Synthesis) Requirement.

RS 4140/4140L: Current Applications in RS: Energy Efficiency and Energy Conservation (2 units/1 unit)
T 6:30-9:50 PM, and Th 6:30-8:50 PM, Room 209-212. Instructor: Eric Carbonnier (Class Nbrs 72678/75392)
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)
W 7:9-45 PM. Instructor: Timothy Kohut (Class Nbr 72680)
Online – Instructor: Timothy Kohut (Class Nbr 72681)
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.
Fulfills GE Area C4 (Humanities) or D4 (Social Science Synthesis) Requirements.

RS 4990-1: Fabrication (3 units)
M/W 11 AM – 12:45 PM. Instructor: Behnam Samareh (Class Nbr 72682)
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 4990-2: Illuminating Regenerative Practices Through Alternate Realities (3 units)
T 2:30-5:15 PM. Instructor: Travis Fosland (Class Nbr 72697)
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.

RS 4990-3: Circular Business Models (3 units)
Th 1:3-45 PM. Instructor: Kevin Grell (Class Nbr 75393)
In this class, we introduce and work with a relatively new concept: Circular Business Models. Circular businesses shift the traditional profit-seeking corporate objectives, to concentrate on redesigning and restructuring Product-Service Systems from the bottom up. They are deeply involved in how their products are used, and identify opportunities for recycling, up-cycling and similar; they rethink the conventional producer-consumer relationships and dismiss wasteful linear practices; and they promote ecological and social factors complement the overall business culture and philosophy. When taking this class, students get a formal introduction to how these businesses operate and several hands-on experiences such as site visits will be scheduled throughout the semester. This is a great way for students to get a sense of how businesses have started to leverage the knowledge of regenerative studies in their business practices. This class is well suited for students who are curious about how companies have responded to an increasing demand for sustainable practices by consumers, grassroots and advocacy groups, NGOs, and (local) government.

RS 4990-4: Urban Infrastructure (3 units)
T 7:9-30 PM. Instructor: Monique Lopez (Class Nbr 75521)
In this course, we will examine infrastructure through social history: who plans it, who funds it, who uses it, and who changes it? We consider the political and economic stories behind infrastructure planning and development. We will learn how people manage to use imperfect systems, and how we have layered new systems over old. We will also learn about the urban-rural connection of “urban infrastructure” and the environmental injustices that the existing system of urban infrastructure is reliant upon in order to allow a life of convenience for some. We will study how people leverage the political process, technical expertise, and grassroots organizing to make infrastructure more sustainable.

RS 4990-4: Placemaking Through the Arts (3 units)
Th 1:3-45 PM. Instructor: Cybele Lyle (Class Nbr 75522)
Focusing on the Center for Regenerative Studies, this course will explore connecting to a place through the practice of art making. We will explore a wide range of artists and projects who work in this way, looking at examples of site-specific and site-based work, land art, performance, mapping and signage art and relational aesthetics, among others. We will do a range of observation and response-based projects such as drawing, writing and photography that connect us to a place – wherever we are. We will use these explorations to understand our own place and how that place relates to the Center. Students will observe place over time – the nature, the regenerative systems, the architecture and people – to first connect to the place and then to find a project that will connect in some way to the Center. This class will incorporate the sense of connect and disconnect to a place based on physical distancing – what does it mean to connect to a place that is faraway? Students working in any media and from any major are encouraged to take this class as an interdisciplinary range of backgrounds, experience and ways of thinking will benefit the group.