



## Expected Course Offerings for Minor Students & Non-Majors, Spring 2023

These Courses are open to all CPP Students

### **RS 1110: Introduction to Regenerative Studies. 3 Units**

**Online Asynchronous - Steve Sandifer, Instructor (Class Number 30606)**

**Face to Face, W 2:30 PM – 5:15 PM – Room 209W 0212 - Douglas Kent, Instructor (Class Number 30605)**

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.**

**Online Asynchronous - Douglas Kent, Instructor (Class Number 30608)**

**Face to Face , M 1:00 PM – 3:45 PM - Room 209C 0101– Steve Sandifer, Instructor (Class Number 30607)**

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.**

**Face to Face, T 2:30 PM – 5:15 PM – Room 209W 0212 - Rohan Guyot-Sutherland, Instructor (Class Number 30609)**

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.**

**Online Synchronous - W 1:00 PM – 3:45 PM, Beth Anne Falstad, Instructor (Class Number 30611)**

**Face to Face, W 4:00 PM – 6:45 PM – Room 209C-0101, Elektra Grant, Instructor (Class Number 30612)**

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 4140/4140L: Current Applications in Regenerative Studies: Edible Landscapes and Cuisine: Indigeneity, (De) colonization, and Culinary Ethnobotany. 2 units and 1 unit. (Class Nbrs 30642/30644)**

**Face to Face - T 10:00 - 11:50 AM and T 1:00 PM – 3:50 PM. Room 209C 0101. Claudia Serrato, Instructor**

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 eco-feminisms provide critical teachings, lessons and earth-based knowledge towards a de-colonial 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 4200/4200L: Current Applications in Regenerative Studies: Watershed Restoration. 2 units and 1 unit. (Class Nbrs 30141/30142)**

**Face to Face – F 9:00 – 10:50 AM and 12:00 – 2:50 PM; Room 209C 0101; 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 4500: Sustainable Communities. 3 units. (Class Number 30612)**

**Online Asynchronous - Timothy Kohut, 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.**

**RS 4990-2: Sustainable Development 3 units. (Class Number 30717)****Online Asynchronous – Kevin Grell, Instructor**

This course provides an introduction to environmental economics, circularity, and sustainable business models for non-econ students. We explore how issues related to climate change and ecosystem degradation present environmental problems as well as challenges to society. We introduce basic welfare economic considerations such as social welfare and utilization and the open-access/public goods problems, in order to build an understanding of circular business models and similar sustainability minded initiatives. You are introduced to the predominant environmental protection standards (efficiency, safety, and sustainability) and will in this context explore how individual initiatives are measured and evaluated against each standard. Finally, the course provides insights into the exploitation and valuation of natural resources and ecosystem services.

**RS 4990-3: Intro to Building Simulation 3 units. (Class Number 30718)****Face to Face – W 5:30 PM – 8:15 PM – Room 209W 0212, Timothy Kohut, Instructor**

An exploration on the theory and implementation of energy-efficient building technologies. Topics include energy-efficient systems for HVAC, lighting, and water heating, building energy analysis, and building energy simulation throughout. According to Architecture 2030, building operations account for 29% of total global greenhouse gas emissions, while another 11% is associated with building materials and construction. These are important statistics as we check the pulse of the planet. In order to arrest the impact of the Climate Crisis and to limit global temperature increase to 1.5 degrees Celsius (measured from the dawn of the industrial age), we must eliminate CO2 emissions from the built environment by 2040. The battle to curb emissions and create a clean energy future is being waged today, and it will continue to be fought for the next generation. At the same time the built environment is continuing to expand (projected to double in size by 2060). As populations grow and cities expand, buildings will need to be designed to be zero net energy operationally, and increasingly will need to be carbon neutral for energy embodied in the building materials and the construction process. Today, California has emerged as a world leader in the arena of zero net energy buildings and its energy code is focused on creating and operating a carbon neutral electricity grid by the year 2045. This class will focus on simulation energy modeling in buildings. Students will use several software platforms to simulate conceptual energy use and also study detailed energy analysis. Additionally, students will study the impact of embodied carbon in the building material selected. The next generation of architects, engineers, urban planners, and designers will need to have skills to perform predictive energy modeling, identifying strategies and roadmaps for design teams to take to hit zero net energy targets. This class will introduce students to the tools and concepts needed to guide these discussions.

**RS 4990-4 Global Indigenous Processes. 3 units. (Class Number 30720)****Online Asynchronous – Beth Ann Falstad, Instructor**

Investigation of vernacular technologies, traditional ecological knowledge, cultural traditions and mythologies. Global indigenous processes are examined according to climatic and geographic regions in relation to infrastructure, social systems, shelter, food production, resource management, waste management, and energy systems.

**RS 4990-5: Placemaking through Art 3 units. (Class Number 30728)****Hybrid Synchronous M 2:30 PM – 5:15 PM – Cybele Lyle, Instructor.**

Inspired by the Center for Regenerative Studies, this course will explore connecting to place through the practice of art making. We will learn about a wide range of artists 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 start with an open exploration of place, focusing on where each student currently is situated – your neighborhood. We will then expand to getting to know the Center through learning about the basic ideas behind its design and existence. Throughout the course we will do a range of observation and response-based projects such as drawing, writing and photography that connect us to 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 to first connect to the place where we each live and then to find a project that will connect in some way to the Center. The 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 far away? What does it mean to connect to our own home? 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.

**RS 4990-6: Sustainable Systems 3 units. (Class Number 30729)****Face to Face T 5:30 – 8:15 PM; Room 209W 0212 - Rohan Guyot-Sutherland, Instructor.**

This course is about developing alternative low-cost sustainable systems that can improve building performance and reduce environmental impact, while contributing to develop a contemporary architecture that maintains traditional values and is respectful of its environment. **RS**

**4990-07 Public Engagement to Build a Sustainable Future  
2 units (Class Number 35162)****Face to Face Friday 9:00 – 10:50 AM Room 209W 0212; Aaron Fox, Instructor**

**This is a co-requisite course with RS 4990-08 must be enrolled in both sections.**

This course is roughly titled “Sustainable and Regenerative Agriculture Research and Outreach”. It came from numerous desires --- primarily a desire to have a more robust program for the Fellowship and to have a more organized venue to accomplish the goals and desires of the RSS Student Club and others who care about the Lyle Center and want to see it grow.

**RS 4990-08 Events - Public Engagement to Build a Sustainable Future  
1 unit (Class Number 35163)**

**Online Asynchronous Aaron Fox, Instructor**

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