

ES course #	Spring 2017 – ES courses spaces available for registration
ES 380 CRN 21582	<p><b>Social Enterprise and Community Economies</b></p> <p>This class starts by recognizing that the economy is not just what goes on in competitive markets where individuals try to maximize profit. We will explore the idea of ‘social enterprise’ and see how communities, and not just individuals, operate with goals of community benefit and social justice in making their economy. The economy turns out to be a fascinating landscape of different practices that is hidden from view by the Market Myth.</p>
ES 402 CRN 21583	<p><b>Global Issues in Sustainability</b></p> <p>Concepts of sustainability, development and security and their global dimensions; global environmental threats and their sociopolitical implications. Sustainability and development strategies in a north-south context; the role of international agencies in development; global issues of population, energy and resources; international regimes for environmental conservation; war and environment.</p>
ES 441 CRN 21588	<p><b>Advanced Principles and Practice in Ecological Restoration</b></p> <p>An advanced investigation into the meaning, limits, and significance of ecological restoration, including: how restoration is defined and why clear definitions are important; the role of historical knowledge in restoration; the changing character of restoration in a technological culture; ethical issues in restoration practice; participation and political process; cultural inclusion and the significance of restoration as a cultural mode; the international scope of restoration; and the paradox of design.</p>
ES 480 A01 CRN 21590	<p><b>Visual Ecology: Seeing the Wild (A01)</b></p> <p>Explores the terrain of visual media that inform environmental studies in B.C. and internationally: Environmental movements and media campaigns, the visuality of place; representations and relations with non-human animals. What are the politics of looking?</p>
ES 480 A02 CRN 21591	<p><b>Capstone Course in Environmental Studies: Applied Policy and Action (A02)</b></p> <p>Seminar that develops and puts into action student skills towards a current environmental issue. Training in working with the media, First Nations, and non-governmental organizations. Analyze the role and impact of environmental policy actors.</p>
ES 481 A01 CRN 21592	<p><b>History, Science and Culture of Wine (A01)</b></p> <p>No other fare is more intimately entwined with western civilization than wine. For 8000 years wine has been the focus of both religious and secular passions and remains the most evocative expression of a landscape and its people. Wine gave birth to intellectualism among the ancients and drove the Phoenicians to initiate international trade - which today has grown to a US\$300 billion industry wholly dependent on cutting-edge technologies and remarkably sophisticated marketing. In this class we will document the evolution of human civilization through the lens of wine, chronicle the transition from mysticism to science in the vineyard and cellar while tracking the transition from artisanal production to industrial global commoditization. Sensory evaluation workshops will examine terrior, varietal, age, price, quality and value of viticulture and oenological traditions from BC and around the world while considering what "sustainability" means in the context of the world's oldest luxury. <u>Note</u>: mandatory extra workshop fees are required for this course.</p>
ES 481 A02 CRN 21593	<p><b>Introduction to Permaculture Design (A02)</b></p> <p>This course covers the origins and theory of Permaculture, and provides an introduction to permaculture design methods. We will read foundational texts that have influenced the development of permaculture, as well as contemporary permaculture texts. We will study a range of designs and applications, including food systems, water systems, energy systems, appropriate technologies, place making, and the built environment. Students will be encouraged to reflect critically on the limitations of the contemporary permaculture movement.</p>
ES 481 A03 ES 581 A01 CRN 21594 CRN 21596	<p><b>Analyzing Environmental Issues (A03)</b></p> <p>Environmental problems are multi-faceted issues, involving complex interactions between people and the environment. Analyzing environmental issues to formulate options for solutions thus requires interdisciplinary approaches. The concept of social-ecological systems is one such approach that is gaining recognition internationally. This class uses a social-ecological systems lens to better understand, analyze, and find solutions to environmental issues.</p>
ES 481 A04 CRN 23562	<p><b>Field Methods in Ethnoecology (A04)</b></p> <p>This five day intensive course introduce students to the various field methods common the ethnoecology, ethnobotany, archaeology, and other fieldwork-based disciplines. Combining in-class learning with hand-on training, we will explore navigation and mapping basics (compass, map, and GPS skills), working towards more advanced skills such as using submeter accuracy GPS and drone/UAV survey and mapping. Working on an ongoing ethnological and archaeological project, we will also develop surface survey skills, field photography, note taking, subsurface testing, stratigraphic interpretation, and the field interpretation of geomorphological processes. This course is fundamental if you anticipate a future involving fieldwork, both close to home and in more remote parts of the world.</p>
ES 582 CRN 21597	<p><b>Introduction to Data Analysis</b></p> <p>This course aims to provide students with useful skills for experimental design, data management, data visualization, and statistics, implemented with the software application R. Statistical topics will progress from linear regression models to more advanced methods, such as linear mixed-effects models, generalized linear models, and generalized additive models. Readings will address themes in contemporary data analysis. The course will include a data analysis project, for which students will complete a written report, giving students the opportunity to apply skills learned in the course, and to increase their familiarity with data analysis methods relevant to their own particular research interests.</p>