Course | Fall 2017 Topics Courses (September – December) | Instructor
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380 | The Organics Industry: Local Perspectives | Jeremy Caradonna
This intensive seminar will introduce students to the history of organic farming, the development of the organic standards, and the intricacies of the organic food scene on Vancouver Island. The course will include several guest speakers, field trips to local farms, films, and engaging readings from some of the world’s leading thinkers on organic food systems. The idea is to get a first-hand look at how agents in the local food system are contributing to sustainable agriculture, ecological resilience, and food security. The class is useful for anyone interested in food systems, organics, farming, green business, environmental history, and/or localized economies.

470 | Community & regional coastal-marine conservation | Natalie Ban
This 5-day intensive field course aboard the schooner Passing Cloud (www.outershores.ca) will give students first-hand experience of the issues facing coastal and marine conservation at a community and regional scale. Course activities will include meetings with stakeholders, presentations, discussions, and projects. Application required by June 2, 2017, to anna@organizebc.ca. Additional Fee $1,500.

480 | Political ecology of development (A03) | Katherine Turner
This course examines a range of rural development issues affecting Latin America through a political ecology lens. The course begins with an overview of the theoretical and historical context, before moving to examine key themes, such as resource extraction and conservation, affecting Latin American environments and peoples. The final module of the course focuses on social movements, initiatives and rural development tools for more sustainable development pathways.

481 | Ethnoecology as Deep History (A01) | Darcy Mathews
Did people contribute to the extinction of woolly mammoths? Did the dryland agricultural practices of the Hohokam people ultimately contribute to the catastrophic collapse of their society? How did the First Peoples of British Columbia innovate and respond to changing climate, sea levels, and earthquakes over the past 13,000 years? Through both in-class discussions and field excursions, this course investigates key themes in the deep history of human–environment relationships. Utilizing some of the methodological and theoretical tools of Ethnoecology, Environmental Archaeology, and Paleoethnobotany, we consider the recursive relationships between people, their changing environments, and emergent social and technological innovations through time. Global in scope in terms of method and theory, we also focus on the past 13,000 years of Ethnoecology in western North America.

482 | Natural History and Ecology of Biological Invasions (A01) | John Volpe
Introduced species are rapidly and dramatically restructuring ecosystems around the world. As both scale and rate of global transportation continue to grow, the rise of novel ecological dynamics has reached unprecedented levels. Conventional ecological prescriptions and tools are proving insufficient to the challenge leaving decision makers unable to effectively respond. In this mixed lecture / seminar course we will explore the historical, ecological and socioeconomic dimensions of biological invasions while incorporating the latest thinking in meeting what is among the most formidable challenges to planetary health.

Course | Spring 2018 Topics Courses (January – April) | Instructor
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382 | Ecology and Culture of Food | John Volpe
Our most significant, direct and intimate connection to nature is via food. Thus food decisions, from the personal to the global, have disproportionate influence on both the health of ourselves and the planet. Developing a food literacy that extends beyond simple nutrition incorporating cultural, ecological and socio-economic dimensions is prerequisite to making informed, positive decisions for ourselves and our shared environment. This lecture and project based course encourages students to develop their own food literacy and to engage daily in positive change - simply through the pursuit of “good” food and knowing what that means.

480 | Responding Critically to Colonization (A01) | Anita Girvan
Political ecology puts social justice at the core of efforts to develop solutions to environmental challenges. Building upon understandings from ES 301 of global colonial histories and their continuing legacies, this course invites participants to locate themselves in the specific political-ecological spaces of Lekwungen and WSANEC territory where we are studying and living. How do colonial relations structure this place systemically (its people and larger ecologies), and what alternative and transformative place-based relations are possible? What do “we” - as diverse individuals and members of diverse communities with multiple identities and varying privileges - bring to these spaces? What other dynamics of power also shape these local spaces? How can we help build tools to educate ourselves and peers about these ongoing legacies and how to navigate them, and how can we contribute to Indigenous-led initiatives without: 1) burdening local Indigenous leaders; 2) reproducing problematic legacies?

480 | People, Power, Change (A03) | Anna McClean
Students will launch an organizing campaign to create real change in their communities by learning and practicing the 5 leadership practices of engagement organizing: telling stories, building relationships, structuring organizations, strategizing and taking collective action. This course is offered in partnership with Organize BC, a national leader in community organizing and campaigning. Visit www.organizebc.ca for more information.
A $300 field course fee will allow for additional one-on-one support and group coaching to assist implementation of community-based organizing projects. For more information contact Anna McClean at anna@organizebc.ca.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tr>
<td>481 / 581</td>
<td>Wicked problems: Multiple dimensions of environmental issues (A01)</td>
<td>Environmental problems involve ecosystems, people, and ultimately solving them is about how we govern and manage our interactions with ecosystems. Analyzing environmental issues to formulate options for solutions thus requires interdisciplinary approaches. This class uses a social-ecological systems lens and case studies to better understand, analyze, and find solutions to environmental issues.</td>
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<td>482 / 582</td>
<td>Global Change Ecology (A01)</td>
<td>Human activities are rapidly transforming the biosphere. Understanding and managing the impacts of these changes is critical to maintain ecosystem services and human livelihoods. In this course we will review the nature and magnitude of human-mediated changes to vegetation and landforms, hydrological systems, soils, the cryosphere, and the atmosphere. We will also examine the impacts of these changes on populations, communities and ecosystems. The class will be organized around lectures, student led-seminars, and group research projects. Lectures will cover foundational concepts and student-led seminars will explore recent contributions to the primary literature in key areas. Friday's class will be used to review methods for data analysis and visualization and plan student research projects.</td>
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<td>482 / 582</td>
<td>Introduction to Data Analysis (A02)</td>
<td>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.</td>
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