

2016 Fall Course Offerings

Sustainable Development



Minor declaration forms are available in the Office of Interdisciplinary Programs: 31 Williams Hall, Suite 101

SDEV 010-10 Challenges of Sustainable Development CRN 42649 (SS) *CBE Global* 4 credits

History and principles of sustainable development, including their application to projects in both rich and poor countries. Survey of current environmental, social and economic challenges to sustainable development. Philosophy and ethics of external intervention for poverty alleviation and green development, especially in poor societies. Integrated approaches to sustainable development practice, including the inter-relationship of the health sciences, natural sciences, social sciences and management. **Professor Orrs**
T, R; 1:10 - 2:25 p.m.

SDEV 096-10 Social Research for Engineering Projects CRN 43881 (SS) 1 credits

SDEV 096-11 Social Research for Engineering Projects CRN 43886 (SS) 2 credits

Research project under the supervision of faculty. *Instructor permission required* **Professor Orrs**

SDEV 202-10 Sustainable Development Solutions, II CRN 42650 (SS) *ES* 2-4 credits

Continuation and extension of projects begun in SDEV 201. Refine implementation strategies and develop project evaluation protocol. Oral presentations and written reports. Prerequisite: SDEV 201. *Instructor permission required.* **Professor Orrs**

SDEV 203-10 Research in Sustainable Development CRN 42651 (SS) *ES* 2-4 credits

Students will work on sustainable development research projects not involving field work. May be repeatable for a maximum of 4 credits. Prerequisite: SDEV 010 and instructor permission. *Instructor permission required.* **Professor Orrs**

ANTH 305-10 Anthropology of Fishing CRN 43660 (SS) 4 credits

Comparative study of fishing peoples and their technologies. Fishing strategies, control of information, and social organization of marine exploitation in subsistence and modern industrial contexts. Theory of common property resources and the role of social science in commercial fisheries management. **Professor Gatewood**
M, W, F; 10:10 - 11:00 a.m.

ES, SDEV 310-10 Foundations of Sustainable Development Practice CRN 43507 (SS) 4 credits

The broad goal of this course is to introduce students to the foundations of key sectoral and thematic knowledge for important challenges to sustainable development: food and nutritional security, social service delivery, energy policy, water resource management, urbanization, infrastructure, human rights, biodiversity, adaption to climate change, mitigating GHGs, sustainable business, good governance, and more. Through the Global Classroom, an approach pioneered by Columbia University and the Global Masters of Development Practice Association (<http://globalmdp.org/>), we will do this together virtually with academic partners from around the world. **Staff**
T; 7:45 - 10:35 a.m.

SDEV 372-10 Independent Study in Sustainable Development CRN 42652 (HU, SS) *ES* 1-4 credits

Opportunity for students to pursue individual sustainable development projects or continue work begun in SDEV 201/202. May not count towards minor's credit requirements. Prerequisite: SDEV 010 and department permission. **Professor Orrs**

Additional Course Offerings

Sustainable Development



SUMMER 2016

SDEV, ARCH 195-10 Nudging the L.V.: Propositions for Sustainable development CRN 21433 4 credits

ES, ARCH, POLS 395-10 Nudging the L.V.: Propositions for Sustainable development CRN 21436 3 credits

The Lehigh Valley is one of the most rapidly developing regions in the Northeast. This course proposes to use the LV as a topic of research, design, and proposition. We will address questions posed by the scale of development in the region to propose interventions that maximize the beneficial impact that can accompany the growth. Investigation will be encouraged to engage the design, engineering, environmental, economic, historical, sociological, geographic, cultural, and political aspects of contemporary development. The goal is to identify latent opportunities within current trends to maximum and broaden their benefit.

Although modeled on design studio methodology, the course will be interdisciplinary in nature and open to students from all backgrounds **Professor Stringfellow**

Summer session 1 - M, W; 4:00 - 6:50 p.m.

SDEV, HMS 196-10 Oceans and Human Health CRN 21505 4 credits

STUDY ABROAD IN BERMUDA

The world's oceans affect human health in many ways: they provide food and water to human populations; they are a point of exposure to pollutants, toxins, and diseases; and they provide pharmaceuticals and animals used in biomedical research. This course explores the interactions between oceans and human health. You will learn more about both human health issues and marine science, by studying the ways in which they intersect. You will gain an understanding of the major risks and benefits of our interactions with the ocean and will be introduced to technologies used to assess risk and to realize potential benefits. The course is based at the Bermuda Institute of Ocean Sciences, and you will have the opportunity to explore the beautiful beaches and fascinating history of the isolated island nation of Bermuda. Cost: \$5750 plus \$50 study abroad fee and airfare. **Professor Orrs**

May 22 – June 11

WINTER 2016

SDEV 122 Sustainable Development: The Costa Rican Experience 3 credits

STUDY ABROAD IN COSTA RICA

Investigation of the concept of sustainable development as currently being practiced in Costa Rica. Case studies in diverse areas (e.g. agriculture, bio-prospecting, ecotourism, energy, and land use) demonstrate how current approaches to sustainable development are influenced by the history and ecology of Costa Rica, as well as the structure of its political, social, and economic systems.

Attention to theories of sustainable development and of consumption help to frame the Costa Rican experience. Students maintain individual "sustainability" journals based on their experiences from which they draw for team-based research and writing projects.

The course is offered through Lehigh Abroad and consists of 5 evening classes during the fall semester and required course travel to Costa Rica between the fall and winter semesters (approximately 18 days). Final course projects are due early in the spring semester.

Course participation will require additional fees as described by Lehigh Abroad (airfare and program fee).

Date to be determined.