

# The Eco League

*Five Great Colleges ≈ One Important Mission*

## International Study Opportunities across the Eco League

### Prescott College

Weblink for course descriptions in the Prescott College catalog:

<http://www.prescott.edu/students/rdp/documents/complecoursecatalog.pdf>

Weblink for chart showing when all courses are taught over a 2 year period:

<http://www.prescott.edu/students/rdp/forms.html#advising> click the excel file for "2 Year Curriculum Plan"

**MEXICO, Kino Bay Center,** The Kino Bay Center for Cultural and Ecological Studies is Prescott College's field station on the shores of the Gulf of California, one of the most remote and unexplored seas remaining in the world today. The Kino Bay Center provides quality educational opportunities, supports ongoing cooperative research, and facilitates education and outreach with local communities. Prescott College classes are based at the Kino Bay Center throughout the academic year from September through May. Weblink for Kino Bay :<http://www.prescott.edu/highlights/kino/index.html>

#### **Summary of Courses based out of the Kino Bay Center:**

##### Block Courses:

###### Fall (September) Block

Scuba Diving and Marine Natural History (every Fall Block)

###### Winter (January) Block

Coastal Ecology of the Gulf of California (every January Block)

Field Methods for Plant Biology (odd years January Block offered in 2012)

Kayaking and Marine Natural History (every January Block)

Spanish Intensive (offered once a year next is January 2011)

###### Summer (May) Block

Natural History and Cultural Ecology of Kino Bay, Mexico (check two year curriculum plan)

##### Semester Courses

###### Fall Semester

Marine Studies I, II, III (offered fall semester 2011)\*

Marine Conservation I, II, III (offered fall semester 2012)\*

Marine Biology I, II, III \*

Wilderness Exploration and Landscape Studies I, II, III (offered every fall semester)

\* Marine Biology, Marine Conservation and Marine Studies are each taught two out of every three years. Check Two Year Curriculum plan for current rotation (website above).

**STUDENTS MUST HAVE CURRENT PASSPORT TO CROSS THE BORDER INTO MEXICO.**

**Coastal Ecology of the Gulf of California: Offered every January Block, 4 credits.** The Gulf of California is a biological treasure of global significance. In this intensive field course, we take an in-depth look at the ecology and biota of this diverse region. Prime study subjects are marine and coastal birds, especially their behavior and feeding ecology. Also covered are intertidal and estuarine ecology with a focus on rocky, sandy, and mudflat habitats; ecology of the Sonoran Desert; and natural history of marine mammals. Specific organisms are studied as examples for understanding the complex ecological interactions of the Gulf Coast. Students are required to undertake an independent field project. **Prerequisites:** Biological Principles, Natural History and Ecology of the Southwest; field experience recommended. **Course Fee:** \$370. Estimated expenses for binoculars, food in the field, etc, \$245. Even years, contact Tom Fleischner, [tfleischner@prescott.edu](mailto:tfleischner@prescott.edu), odd years, contact Mark Riegner, [mriegner@prescott.edu](mailto:mriegner@prescott.edu)



**Field Methods for Plant Ecology (ENV42712)** This course will equip students with the skills needed to carry out field-based research concerning plant population biology (involving one plant species), community ecology (involving many plant species), and plant-animal interactions (such as pollination). It includes hypothesis testing, use of GPS and some GIS technology, and many of the field methods used to test specific hypotheses. **Prerequisites:** Instructor signature required; Biological Principles; Concepts of Ecology, or Natural History and Ecology of the Southwest; recommend at least one of the following: Statistics for Research, Geographic Information Science, or Botany. **Course Fee:** \$380.00, Estimated student expense for books, personal Botany equipment, food in the field, misc. \$100.00

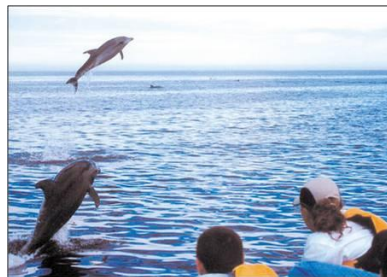
**Natural History and Cultural Ecology of Kino Bay, Mexico: Summer (May) Block, 4 Credits.** Taught on an irregular rotation, Check with Lorayne Meltzer at [lmeltzer@prescott.edu](mailto:lmeltzer@prescott.edu)

**Marine Biology I, Marine Biology II, Marine Biology III: Offered Spring Semester 2011. 12 Credits.** This is a semester long field course. **Must enroll in all three phases (Marine Biology I, Marine Biology II, Marine Biology III) concurrently.** **Course Fee:** \$2,230. Estimated expenses for binoculars, food in the field, etc, \$350

**Marine Biology I: Diversity of Marine Life (ES2213 - ES4213)** Diversity of Marine Life is a survey of the common groups of marine organisms. **Prerequisites:** Lower Division, Instructor signature required; Upper Division, Instructor signature required; Biological Principles, Botany, Animal Biology, competent in Spanish language skills.

**Marine Biology II: Oceanography (ES2219)** Taken concurrently with Phase I – This course will provides an introductory glimpse of the Earth's oceans from physical and marine geologic perspectives

**Marine Biology III: Field Methods for Marine Ecology (ES2215 - ES4215) – This course** focuses on design and execution of student research projects. Students will design field research projects, collect field data, analyze results and write up scientific papers on some aspect of marine ecology. Projects will be based primarily on the ecology of intertidal habitats or on islands of the Gulf of California.



**Marine Conservation I, Marine Conservation II, Marine Conservation III** This is a semester long field course. Must enroll in all 3 phases of Marine Conservation concurrently. **Course Fee:** \$635. Estimated expenses for binoculars, food in the field, etc, \$450. **Contact:** Lorayne Meltzer at lmeltzer@prescott.edu

**Marine Conservation I: Global Marine Issues (ENV43310)** This course examines global marine issues from interdisciplinary perspectives. We begin by developing a general background in maritime cultures, laws of the sea, and the ecological, economic, and social importance of the marine environment. Issues studied in depth include fisheries, pollution, tourism, habitat alteration, island and coastal management, protected areas, and endangered species.

**Marine Conservation II: Gulf of CA Conservation Case Studies (ENV43311)** Concepts introduced in Phase I are illustrated through regional case studies in the Gulf of California. Through first-hand field observation and participation, students gain an understanding for the complexity of many conservation challenges in the Gulf.

**Marine Conservation III: Applied Conservation Research (ENV43312)** Theoretical and field-based knowledge gained in Phase I and Phase II leads the student to a better understanding of current and potential management strategies for protecting marine and coastal resources.

### **Marine Studies I, Marine Studies II, Marine Studies III: Case Studies in Marine Conservation**

This course is part of an 18-credit, 3-phase course introducing students to topics and skills in marine adventure education, natural history, and conservation. The course is primarily based at the Prescott College Kino Bay Center, and prepares students for more focused upper division work in adventure education, science and conservation. **Prerequisites:** Instructor signature required; students must be able to swim and have a clear medical history in order to participate in the scuba activity. **Course Fee:** \$760.00 Estimated student expense \$575.00 for books, mask & snorkel, and food in the field.

**Skills for Ocean Exploration (ENV23320)** This course will introduce students to the basic nautical knowledge needed by all mariners with an emphasis on sea kayaking skills and general boating safety.

**Marine Studies II: Nat'l History (ES4251 - ES2251)** The Gulf of California is one of the most productive marine environments on earth. Its islands, biological diversity, geologic and cultural history make it a remarkable place for students to learn about marine and coastal natural history. Class and field sessions will introduce students to the coastal ecosystems, islands and offshore environments of the Gulf of California

**Marine Studies III: Case Studies in Marine Conservation (ENV23322)** Through first-hand field observation and participation, students will gain an understanding of the complexity of many conservation challenges in the Gulf of California.

**SCUBA Diving and Marine Natural History (AE2238), 4 Credits, Every Fall Block.** This course is an introductory study of the interrelated topics of marine natural history and SCUBA diving. Topics for study will include the physical characteristics of the ocean environment, including the properties of water, temperature, salinity, pressure, light penetration, tides and



currents, and wind and waves, as well as the natural history of near shore organisms including fishes, sea birds, marine invertebrates and marine mammals. Upon meeting the academic and skill requirements, students will be certified as open water and advanced open water SCUBA divers with experiences in a wide variety of dive environments and underwater specialties including underwater navigation, night diving, deep diving, drift diving, shore and boat diving, Project Aware, and underwater natural history. **Prerequisites:** Instructor signature and medical screening form required; Students must be able to swim; **Course Fee:** \$1,943.00, Estimated student expense for written material, food, personal gear. \$250.00. **Contact:** Dave Craig at [dcraig@prescott.edu](mailto:dcraig@prescott.edu)

**Sea Kayaking and Marine Natural History (ADV24110): Offered in Winter Block 2011 and 2012. 4 Credits.** Sea kayaking places us in intimate contact with the ocean environment. Kayakers are as much in the water as they are upon it. This unique perspective allows us to experience the power of the ocean's physical nature as well as giving us the opportunity to closely observe the living communities in the water and on the shore. This course is an introductory study of the interrelated topics of marine natural history and expeditionary sea kayaking. Topics for study will include tides and currents, wind and waves, and the natural history of nearshore organisms including fishes, seabirds, marine invertebrates and marine mammals. When conditions permit, we will snorkel to observe subtidal life. Students will learn minimum impact travel and camping skills and will be introduced to the regional impacts of coastal commerce and recreation. As apprentices to the sea, students will learn and practice paddling skills, navigation, and ocean survival techniques drawn from the rich, thousand-year history of sea kayaking. **Prerequisites:** Successful completion of wilderness-based orientation plus Program Coordinator signature required. **Course Fee:** \$564.00 Estimated student expense for equipment, supplies, food, misc. \$300.00. **Contact** Dave Craig at [dcraig@prescott.edu](mailto:dcraig@prescott.edu)

**Wilderness Exploration & Landscape Studies I, II and III: Offered every fall semester, 12 Credits:** Must enroll in all three phases concurrently. **Prerequisites:** Instructor signature required; -level coursework in at least one of the following areas: natural history, ecology, earth science and/or general biology, and rock climbing, backcountry skiing, plus successful completion of wilderness-based Orientation, or extensive equivalent experience and instructor permission. **Course Fee:** \$1,856.00. Estimated student expense for texts, personal gear, food, and misc. \$400.00-\$600.00

**Wilderness Exploration & Landscape Studies I: Expeditionary & Technical Skills (AE2446)** This course will introduce students to fundamental expedition skills and models through presentations, discussions, and practice.

**Wilderness Exploration & Landscape Studies II: Desert Geography (AE2448)**

This course is an exploration of arid landscapes and the physical, biological, and cultural geographic factors at work in these environments

**Wilderness Exploration & Landscape Studies III: Landscape Exploration and Interpretation (AE4448)**

This course focuses on developing techniques for exploring and interpreting wilderness landscapes, and builds on foundational knowledge and experience in both geography and wilderness travel.

## Other International Programs and Courses

**COSTA RICA: Tropical Biology: The Natural History of Costa Rica (ES4225 - ES2225) Summer (May) Block, even years, 4 Credits.** Although only the size of West Virginia, Costa Rica boasts an impressive diversity of habitats and their associated floras and faunas. Over 820 bird species, about 200 kinds of mammals (half of which are bats), numerous reptiles, amphibians, and insects, and a multitude of plants are found in this tropical land, which has attracted research biologists from around the world. This field course emphasizes not only the identification of plants and animals, but also an understanding of the complex interrelationships between and among the life forms and physical conditions that constitute tropical environments. **Prerequisites:** Instructor signature required; Basic Biology and Ecology; skills in Natural History study. **STUDENTS MUST HAVE VALID PASSPORT!** **Course Fee:** \$1,190.

(a nonrefundable deposit of \$400 is required in February to hold a space in the class). Estimated student expense for airfare, supplies, misc: \$1,200. **Contact:** Mark Riegner at [mriegner@prescott.edu](mailto:mriegner@prescott.edu)

**ECUADOR: International Mountain Expedition: (AE4232) Winter Block 2011. 4 Credits (Other locations in other years. Check the 2 year curriculum plan)** This intensive, field based course is appropriate for intermediate and advanced students with solid backgrounds in extended backcountry travel in mountain environments. The focus is on implementation of a self-contained mountain expedition in a foreign country. The course will include the exploration of regional cultures, geography, and ascents of appropriate mountaineering objectives. Students will build on existing skills and knowledge. Topics to be covered include: expedition planning and logistics, itinerary development, area-specific technical skills, safety and hazard evaluation, place-based natural history and cultural studies, and leadership. **Prerequisites:** Instructor signature required; significant backcountry travel experience; Basic Rock Climbing; In addition, Wilderness Emergency Care and international travel experience are recommended. **STUDENTS MUST HAVE VALID PASSPORT. Course Fee:** \$1,260.00, a non-refundable deposit of \$250 (to be applied to the course fee) is due at registration. Estimated student expense for airline tickets, food, personal equipment, and misc: \$1000.00. **Contact:** Lee James at [ljames@prescott.edu](mailto:ljames@prescott.edu)

**NORWAY: Explorations of Norway: Nature & Culture (ENV41010) offered Fall Block odd years, 4 credits.** This class will explore the west coast of Norway, a land that bore a significant element of the Viking culture. Through experiencing and studying the land and sea, students will gain an appreciation for a landscape and cultural geography that essentially have evolved together. We will consider the historical and contemporary Norwegian culture, their environmental challenges, and the environmental philosophers who argue eloquently for their future. **Prerequisites:** I PASSPORT REQUIRED. Instructor signature required; Students must complete course application and interview in order to be considered. Highly recommended that students have background in Concepts of Ecology, and/or Ecology and Natural History coursework. Other recommended coursework includes: Philosophies of Interpretive Naturalists, Environmental Ethics, and Conservation Biology. Other relevant studies may include European history, philosophy and ethics, experiential education, environmental education, as well as adventure education. **Course Fee:** \$872.00 (\$150.00 non-refundable deposit will be due upon registration and is credited toward course fee airline tickets will be purchased as a group so that everyone travels together to Norway). Estimated student expenses for gear, airline tickets, food in the field, misc., \$2625.00. **Applications available** on line with the registration materials or by contacting Doug Hulmes at [dhulmes@cableone.net](mailto:dhulmes@cableone.net)

**NORWAY: Telemark University College (<http://www.hit.no/english>)**



Students travel to Norway and study in English through the programs offered at Telemark University College. See: <http://www.hit.no/english/content/view/full/18168> for courses taught in English.

For more information on this exchange opportunity see:

[http://www.prescott.edu/eco\\_league/index.html](http://www.prescott.edu/eco_league/index.html)

you may also contact Doug Hulmes at [dhulmes@prescott.edu](mailto:dhulmes@prescott.edu)

**US- MEXICO BORDER: Border Studies (CRS24010 - CRS44010): 4 Credits, offered every Winter Block**

This course includes tours of Federal Immigration Detention facilities as well as a Federal Immigration Prison. This course examines the social, cultural, economic and environmental impacts of U.S. border enforcement practices and immigration policy. The class travels through southern Arizona and northern Sonora for an intensive, experiential analysis of the U.S.-Mexico Border region, including visits to communities on both sides of the border, interviews with U.S. and Mexican officials and residents, immigration reform activists, humanitarian and human rights organizers, and communities and institutions most directly impacted by immigration policy and border enforcement. **Prerequisites:** Lower Division: None; Upper Division: One college-level course in Latin American studies, Spanish, or extensive field experience in Latin America. **Course Fee** \$480.00. Estimated student expense for texts, food, travel, misc. while in the field: \$250.00. **Contact:** Zoey Hammer at [zhammer@prescott.edu](mailto:zhammer@prescott.edu)