

Extrdepartmental

The following section includes courses of interest to students in various disciplines.

EXTD 115 Introduction to Botanical Art

Roche (Friends of Horticulture) and Govan (Friends of Horticulture)

“If you can paint a leaf, you can paint the world” (Ruskin). This course will focus on the roles of Botanical Art in fine art and science, both historically and in the present day. Students will study the exacting skills demanded of the artist, through study of examples in Wellesley College special collections and in practical applications. In the Wellesley College Ferguson Greenhouses, students will obtain grounding in botanical knowledge, basic instruction in representational drawing and color study, as well as an appreciation of the knowledge of the botanical illustrator, as scientist and artist. *Mandatory credit/noncredit.*

Prerequisite: None

Distribution: None

Semester: Wintersession Unit: 0.5

EXTD 160 Introduction to Engineering Science

Pratt and Storey (Olin), Berg (Wellesley) (Course taught on Wellesley campus)

Introduction to Engineering Science is offered to students who are intrigued by engineering as a philosophy or a career. It is meant to help students get a taste of engineering. The course is project-based and hands-on and will also have a design and prototyping component. Students will explore four concepts central to engineering: effort and flow, which describes how power flows between interacting objects, regardless of their domain; transduction - the bidirectional transformation of effort and flow from one domain to another; state, which is how systems remember the past; and the powerful idea of feedback, which is used in almost all engineered devices to bring about desired behavior despite undesired disturbances.

Prerequisite: PHYS 107 or the equivalent or by permission of the instructors.

Distribution: None

Semester: Spring Unit: 1.0

EXTD 240 Papyrus to Print to Pixel

Rogers (Library) and Ruffin (Library)

The electronic revolution wasn't the first: written communication changed radically from the papyrus rolls of the ancient Greeks and Romans to the codex manuscripts of the Middle Ages, again with the invention of printing from moveable type, again with the development of industrial, mass-market, low cost printing and the paperback, and again with the development of electronic texts. Lectures, discussions, and weekly hands-on labs will examine how previous and contemporary revolutions in the technology of written communication have affected society, from religion to economics to politics.

Assignments require the use of Special Collections, the Book Arts Lab, and the Knapp Media Center. Weekly labs include making papyrus, an illuminated manuscript on parchment, rag paper, typesetting, letterpress printing, and a digital design project. Additional field trips.

Prerequisite: By application.

Distribution: Arts, Music, Theatre, Film, Video or Historical Studies

Semester: Spring Unit: 1.0

EXTD 288 Hitler: the Man in History, Literature, and Film

Hansen

NOT OFFERED IN 2007-08. The figure of Adolf Hitler continues to horrify and fascinate those who have inherited the world he changed forever. This course will explore the historical figure of Hitler and subsequent responses to him by contemporaries, historians, writers, and filmmakers. After reading Hitler's own words and the biographers' accounts, we shall focus on representations not only from the German context (Bertolt Brecht, Thomas Mann, Hans-Jürgen Syberberg) but also from other cultures (Charley Chaplin, George Steiner, Mel Brooks). *Three class meetings per week. The third meeting will be for film screenings and therefore not used every week.*

Prerequisite: None

Distribution: Language and Literature or Historical Studies

Semester: N/O Unit: 1.0

EXTD 310 Ethics and Difference

Prabhu

A course on the idea of difference in historical perspective; focuses on ethical aspects of claiming/identifying difference. Study of difference in texts by the Philosophers of the Enlightenment, journals or personal papers of voyagers and colonial administrators, fiction, reflections on method by anthropologists, twentieth-century critical/philosophical work, and medical ethics. Emphasizes critical thought and expression. Focuses on methods for close reading/study to generate and develop research questions. Individual assignments based on students' interests/disciplines. Possible themes of difference include gender, race, ethnicity, nationality, class, disability, and differential power in individual or group relationships.

Prerequisite: Open to seniors; juniors by permission of the instructor.

Distribution: Religion, Ethics, and Moral Philosophy

Semester: Spring Unit: 1.0

Marine Studies Consortium Courses

The Marine Studies Consortium offers courses focusing on a variety of marine topics. These courses are taught at neighboring institutions and are open to a limited number of Wellesley students by permission of the consortium representative, Marianne Moore, Biological Sciences Department.

EXTD 123 Water Resources Planning and Management

A comprehensive introduction to the economics and ecology of water supply and water pollution control. Topics include watershed management, groundwater and wetlands protection, and wastewater treatment. The inherent difficulty in applying static laws and regulations to a dynamic natural resource such as water is a recurring theme. Offered by the Marine Studies Consortium.

Prerequisite: None. Open to students by permission of the consortium representative, Marianne Moore, Biological Sciences Department.

Distribution: None

Semester: Fall Unit: 1.0

EXTD 126 Maritime History

This course is an introduction to New England's maritime history, with secondary emphasis on its relationship to the coastal ecosystem. The course will survey the sea's legacy from the earliest seventeenth-century fishing settlements to the shipbuilding and commerce of today. Course themes will include historical, political, and economic developments. Field trips will explore the rich resources of the Peabody Museum, Salem, Mass.; the USS Constitution, Boston, Mass.; and Mystic Seaport, Conn. Offered by the Marine Studies Consortium.

Prerequisite: None. Open to students by permission of the consortium representative, Marianne Moore, Biological Sciences Department.

Distribution: None

Semester: Spring Unit: 1.0

EXTD 128 Coastal Zone Management

This course presents a survey of the coastal environment, its physical characteristics, natural systems, economic uses, and development pressures. Lectures examine strategies formulated in the U.S. for land and water resource management in the coastal zone. The roles of federal, state, and local government, environmental groups, and resource users are also explored. Finally, by comparing coastal zone management problems in the U.S. to those elsewhere in the world, students gain a global perspective. Offered by the Marine Studies Consortium.

Prerequisite: None. Open to students by permission of the consortium representative, Marianne Moore, Biological Sciences Department.

Distribution: None

Semester: Spring Unit: 1.0

EXTD 225 Biology of Fishes

This upper-level survey course covers the evolution, systematics, anatomy, physiology, and behavior of freshwater, marine, and anadromous fishes from temperate to tropical environments. The course also examines the diversity of fish interactions in aquatic communities: predator/prey relationships, host/symbiont interactions, and the various roles of fishes as herbivores. Study of inter- and intra-specific predator-prey relationships among fish populations in aquatic communities integrates principles of ecology. Offered by the Marine Studies Consortium.

Prerequisite: One year of general biology and two upper-level biology courses. Open to students by permission of the consortium representative, Marianne Moore, Biological Sciences Department.

Distribution: None

Semester: Spring Unit: 1.0

EXTD 226 Biology of Whales

This upper-level course examines the biology and conservation of cetaceans: whales, dolphins, and porpoises. Topics include physiology, population biology, life history analysis, molecular genetics, morphology, distributional ecology, and social behavior. Lectures first focus on the biology of cetaceans and how they are adapted to the marine environment. Subsequent lectures use case studies to review how biological principles can be applied to the conservation of a wide range of cetacean species. Offered by the Marine Studies Consortium.

Prerequisite: One year of general biology and two upper-level biology courses. Open to students by permission of the consortium representative, Marianne Moore, Biological Sciences Department.

Distribution: None

Semester: Spring Unit: 1.0

EXTD 227 Wetlands: Ecology, Hydrology, Restoration

This course examines the vital role of wetlands in the hydrology and ecology of global landscapes. The function of inland and coastal marshes, swamps and bogs and their role in water and nutrient cycles will be examined. We will also survey the biodiversity of wetlands habitats, from microbes to vertebrates. The biological links between wetlands and human activities, such as agriculture, coastal development, and fisheries will be considered, as well as the legal framework for the protection and restoration of endangered wetlands. Offered by the Marine Studies Consortium.

Prerequisite: One year of introductory geology or chemistry or biology or physics or engineering or economics; and two semesters of upper level (elective) science courses. Open to students by permission of the consortium representative, Marianne Moore, Biological Sciences Department.

Distribution: None

Semester: Fall Unit: 1.0