

INTERDISCIPLINARY COURSES

84.140 Introduction to the Internet, Graphics, and Multimedia

An introductory course exploring fundamental concepts, vocabularies, and techniques related to graphic design, digital cameras, photo editing, scanning, web design, interactive design, animation and multimedia using a variety of software programs. Students gain a broad foundation that can be applied to more advanced concepts and skills in the Information Technology discipline.

84.160 Image, Sound, and Structure: An Approach to Art and Music (Gen. Ed. Goal 5)

An introduction to visual art and music consisting of a seven-week music module and a seven-week visual art module. The course examines the elements and principles that compose images and musical works. In a variety of experiences, conceptual and physical, students explore the components and structures necessary to create works of music and visual art. Students are active participants in creating, listening, and responding to artistic forms. Both modules emphasize the integrative possibilities of the arts and other disciplines.

84.222 Bioethics (Gen. Ed. Goal 4)

An examination of moral issues in modern biology. Major theories of ethics, as well as biological aspects of development, genetics, genetic engineering, and the environment, are investigated. Themes such as brain death and euthanasia, abortion, scarcity of medical resources, reproductive control, patient confidentiality, and environmental issues are explored.

Prerequisite: One college biology course.

84.225 Biopsychology

An overview of the biological foundations of behavior and mental processes. Topics covered include the biological underpinnings or various domains in psychology such as emotion, motivation, perception, cognitive function, psychopharmacology, and hormone effects on the brain and behavior. No Laboratory.

Prerequisite: 42.101 General Psychology and one of the following biology courses: 23.101 Biology Concepts, 23.142 Human Biology, **or** 23.161 Cellular and Molecular Biology; **or** permission of instructor.

84.300 Into the Ocean World

An inter-institutional course representing a new concept in interdisciplinary teaching. Using the facilities and faculty of area colleges, the student is introduced to the oceanic environment using a multi-faceted approach. Experts in the fields of

ocean science, the arts, literature, history, law and social science relate their interests to the on-going interactions of man and the marine environment. Off-campus lectures and field trips. **Note:** Does not supplant 23.341 Marine Biology or 73.246 Oceanography.

Prerequisite: Junior standing, and application to the campus representative of the Massachusetts Bay Marine Studies Consortium. Application must be made one semester prior to experience.

84.301 Water: Planning for the Future

An interdisciplinary introduction to our most precious resource. Water has shaped our bodies, our planet, our history, our culture. How we manage it will shape our future. Because of increasing demand, waste and pollution, we are depleting and risk destroying the limited supply of usable fresh water. This course looks at water through scientific, historical and cultural viewpoints, and surveys contemporary water problems in all their dimensions - political, economic and technological.

Prerequisite: Junior standing. Students must make application to the campus representative for the Massachusetts Bay Marine Studies Consortium. Applications must be made one semester prior to experience.

84.302 Coastal Issues Seminar: Science and Policy

A study of outstanding issues in coastal environmental affairs. Scientific, legal, economic, management, and technical aspects of coastal issues are discussed and integrated into problem-solving exercises.

Prerequisite: One course in any of the following: biology, chemistry, geography, geology, engineering, environmental or urban planning. Students must make application to the campus representative of the Massachusetts Bay Marine Studies Consortium one semester prior to experience.

84.371 Museum Studies

An examination of the structure and functions of museums, including collections, preservation and conservation, and phases of exhibition planning. Discussion and museum trips are included in this course.

Prerequisite: Open to all majors with the permission of the instructor.

84.381 Museum Seminar

The development and presentation of a museum exhibition, including research, installation, catalog, publicity, and education programs.

Prerequisite: 84.371 Museum Studies **or** permission of the instructor.

84.420 Drug Addiction

A multidisciplinary approach involving specialists in the field of neuroscience, psychology, and behavioral science, who present evidence to support a working model of drug addiction. Law enforcement agents and specialists in the field of drug policy analysis review the current effects of drug policy prevention on illicit drug markets. Educators and social workers present new and creative programs designed to make individuals more aware of current information concerning drug abuse and rehabilitation programs for addicts.

Prerequisites: 23.142 Introduction to Human Biology and 42.101 General Psychology, **or** permission of the instructor.

84.480 Honors Program Thesis/Project

An interdisciplinary independent study course in which honors students complete research projects emphasizing work in their own discipline supplemented by work in a second discipline. Students must make a formal presentation of their work. A permanent archive of honors reports will be retained at Whittemore Library.

Prerequisites: Four (4) courses completed within the Honors Program.

84.490 Independent Study in American Studies

An opportunity for the student minoring in American Studies to combine the knowledge and methodology of various disciplines in one project. Open only to students minoring in American Studies who have completed at least four (4) courses acceptable for the minor. Permission of the chairs of English and History Departments required.

84.499 Departmental Honors Program Thesis

See page 58 in this catalog regarding the Departmental Honors Program.