

BIOL 4026 Environmental Science Laboratory II (1,0,3)

Prerequisite: Biology major Year IV standing (Environmental Concentration)

This course aims to (1) provide students with training in analytical techniques, including physical, chemical and biological techniques, for environmental investigations; (2) provide students with the skills in management and evaluation of environmental data; and (3) provide students with hands-on experience in management techniques for conducting and evaluating an environmental project.

BIOL 4027 Molecular Biotechnology II (3,3,0)

Prerequisite: Biology major Year IV standing

This course aims to cover the fundamental principles and current techniques in molecular biology with particular emphasis on the application of biotechnology in animal science, plant science and medicine.

BIOL 4035 Biological Resources and Management (3,3,0)

Prerequisite: Biology major Year IV standing

This course is designed to promote an awareness of human beings' interaction with the abiotic and biotic environments through studying the principles of resource utilization and conservation that apply to biological systems. The course focuses on the management and rational exploitation of resources in terrestrial and aquatic ecosystems with particular emphasis on local and regional resources.

BIOL 4898-9 Applied Biology Project I & II (3,0,9)

Prerequisite: Biology major Year IV standing

This course aims to provide students with opportunities to conduct a literature survey or laboratory-based research on a specific biological question. Guidance will be provided to students in the development of an independent research plan and apply this plan to address the question.

BIOL 7010 Advanced Topics in Biotechnology (3,3,0) (E)

Prerequisite: BSc (Hons) in Biology or with consent of instructor

This is a postgraduate course covering the principles and methods of biotechnology at an advanced level. It aims at providing more in-depth studies of selected topics, such as production of recombinant proteins, toxicological study of drugs, application of immunological techniques in research, and new developments of modern biotechnology.

BIOL 7020 Advanced Topics in Environmental Sciences (3,3,0) (E)

Prerequisite: BSc (Hons) in Biology or with consent of instructor

This is a postgraduate course that provides update information in recent advance development in selected areas in environmental science and technology.

BMS 1260 Medical Psychology (2,2,0)

This course aims at providing students with basic knowledge about the theories and concepts in medical psychology, developing their ability to apply psychological explanations to individual's daily social behaviour, and examining current psychological issues related to people in Hong Kong.

BMS 2440 Public Health and Family Medicine (2,2,0) (E)

Public health is the science and art of preventing disease, prolonging life and improving the health of communities through education, promotion of healthy lifestyles and research for disease and injury prevention. It deals with preventive rather than curative aspects of health; and with health issues at population-level rather than individual-level.

The objective of this course is to give students an overview of

Public Health in the following aspects: (1) The principles of disease surveillance, biostatistics and epidemiology; (2) The incidence, prevalence and causes of common health problems in Hong Kong; (3) The clinical and preventive aspects of occupational health, environmental health, family health, mental health and health education; and (4) An overview of Hong Kong health services.

Family medicine is a medical specialty that provides continuing and comprehensive healthcare for individuals and families, including all ages, sexes, organ systems, and disease entities.

The objective of this course is to give students a general concept of Family Medicine in the following aspects: (1) Principles of Family medicine; (2) Common medical conditions encountered in family practice; (3) Care for women; (4) Pediatric and adolescent care; and (5) Geriatric care, especially those with chronic illnesses.

BMS 2450 Public Health and Family Medicine (3,3,0)

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BMS 2510 Cardiovascular System (2.5,2.5,0) (E)

In the modern era, cardiovascular disease contributes greatly to the burden of the healthcare system. In industrialized societies, it is the most frequent cause of adult death. It is important that students should be quite familiar with diseases affecting this system.

This course aims at offering students a general overview of the Cardiovascular System in the following aspects: (1) The gross anatomy of the heart and its great vessels; (2) The physiology of the circulatory system; (3) The cardiovascular system in the diseased state: pathological changes and pathophysiological changes; (4) Clinical manifestations of cardiovascular disorders; (5) History taking and physical examination of the cardiovascular system; (6) Investigative methods of the cardiovascular system; (7) Drugs that affect the cardiovascular system and medications that treat cardiovascular disorders; (8) Overview of the following common cardiovascular disorders: Heart failure, Ischemic heart diseases, Valvular heart diseases, Hypertensive heart diseases, Congenital heart diseases, Arrhythmias, Myocardial diseases, Pericardial diseases, Endocardial diseases, Pulmonary heart diseases, Diseases of blood vessels; and (9) Study of clinical cases.

BMS 2520 Infectious Diseases and Immunology Diseases (2,2,0) (E)

In the modern era, infectious diseases still cause morbidity and mortality in man despite the advent of immunization and antibiotics. It is important that healthcare givers are familiar with the general aspects, epidemiology, diagnosis, prevention and treatment as well as description of individual infectious diseases.

It is precisely the aim of this two-unit course to give students a basic knowledge of the various aspects of infectious diseases.

The contents of this course shall be divided into the following