

Courses Description

College: Science

Department: Biology

Couse ID: 104711 **Description:** Electron Microscopy

Full Course Description:

Couse ID: 104721 **Description:** Advanced Molecular Biology

Full Course Description:

Couse ID: 104722 **Description:** Advanced Biochemistry

Full Course Description:

Couse ID: 104723 **Description:** Advanced Cell Biology

Full Course Description:

Couse ID: 104724 **Description:** Enzymology

Full Course Description:

Couse ID: 104725 **Description:** Modeling and Biostatistics

Full Course Description:

Couse ID: 104731 **Description:** Cancer Biology

Full Course Description:

Couse ID: 104741 **Description:** Food Bacteriology

Full Course Description:

Couse ID: 104743 **Description:** Medical Mycology

Full Course Description:

Couse ID: 104744 **Description:** Pathogenecity

Full Course Description:

Couse ID: 104745 **Description:** Virology

Full Course Description:

Couse ID: 104751 **Description:** Advanced Plant Physiology

Full Course Description:

Couse ID: 104752 **Description:** Applied Ecology

Full Course Description:

Couse ID: 104753 **Description:** Integrated Pest Management

Full Course Description:

Couse ID: 104754 **Description:** Envirnomental Physiology of Plants

Full Course Description:

Couse ID: 104762 **Description:** Comparative Animal Physiology

Full Course Description:

Couse ID: 104763 **Description:** Medical Entomology

Full Course Description:

Couse ID: 104764 **Description:** Advanced Parasitology

Full Course Description:

Couse ID: 104765 **Description:** Molecular Immunology

Full Course Description:

Courses Description

College: Science

Department: Biology

Couse ID: 104771	Description: Population and Community Ecology
Full Course Description:	
Couse ID: 104772	Description: Enviromental Management
Full Course Description:	
Couse ID: 104795	Description: Special Topics (1)
Full Course Description:	
Couse ID: 104796	Description: Special Topics (2)
Full Course Description:	
Couse ID: 104799	Description: Thesis
Full Course Description:	
Couse ID: 2104791	Description: Research Methods and Analysis
Full Course Description:	
Couse ID: 2104793	Description: Seminar
Full Course Description:	
Couse ID: 3104799	Description: Thesis
Full Course Description:	
Couse ID: 6104799	Description: Thesis
Full Course Description:	
Couse ID: 9104799	Description: Thesis
Full Course Description:	
Couse ID: 130104711	Description: Electron Microscopy
Full Course Description: The course deals with the study of biological specimens by electron microscopy; it also focuses on examining the effects of different chemical solutions on tissue fixing. Detailed review of new methodologies and techniques concerned with the analysis of cell structure at the chemical level is also included.	
Couse ID: 130104721	Description: Advanced Molecular Biology
Full Course Description: The course focuses on detailed review of the mechanisms of replication, transcription, translation and gene control in prokaryotes and eukaryotes.	
Couse ID: 130104722	Description: Advanced Biochemistry
Full Course Description: This course examines the theoretical and practical aspects of analytical methods employed to study different biological systems. Specific examples of biological systems studied by such methods will be discussed in some detail.	
Couse ID: 130104723	Description: Advanced Cell Biology
Full Course Description: This course describes the cell and its various metabolic activities with emphasis on signaling transduction pathways leading to cellular responses. In this context, the role played by cellular enzymes and transmitters will be discussed.	
Couse ID: 130104741	Description: Food Bacteriology
Full Course Description: This course is concerned with the study of food poisoning bacteria in terms of general and specific characteristics in addition to poisonous secretions made by such bacteria. Food spoilage in white and red meat, Sea food, dairy products, vegetables and fruits in addition to detailed review of conventional as well as new methods for detection of food poisoning bacteria will be eluted to.	

Courses Description

College: Science

Department: Biology

Couse ID: 130104743 **Description:** Medical Mycology

Full Course Description: The course includes an introduction to mycology, general properties of fungi, □ pathogenecity of fungi and fungi-related diseases, anti-fungal agents and the specific □ mode of action of the various classes of such agents. The practical part of the course □ deals with pathogenic specimen collection, culture media and culturing techniques □ and methods of isolation and characterization.

Couse ID: 130104745 **Description:** Virology

Full Course Description: The course entails a systematic review of the different groups of viruses in terms of □ structure, classification, replication, pathogenicity, latency in viral infection, □ vaccination and viral immunology.

Couse ID: 130104746 **Description:** ss

Full Course Description: A survey of modern developments emphasizing the application of the knowledge of fundamental □ microbiology to address problems which exist in today's environment. Topics will be discussed using □ case studies and problem-based learning and will include emerging infectious diseases, antibiotic □ resistance, bioterrorism, and prion biology.

Couse ID: 130104751 **Description:** Advanced Plant Physiology

Full Course Description: The course is intended to introduce students to issues in plant physiology related to □ the regulation of water movement between plant cells; water tension, its components □ and its role in water movement between various tissues in the plant in addition to □ photosynthesis at the organic, cellular and molecular levels.

Couse ID: 130104752 **Description:** Applied Ecology

Full Course Description: Introduction to ecosystems: carbon sources and skins in modern biosphere; human □ impacts on the nitrogen cycle; human population dynamics and the environment. □ Ecosystem health: biodiversity; habitat invasion; invading species; overexploitation; □ pollution; conservation biology; restoration ecology; rangeland and protected areas □ management. Agro-ecosystem management; sustainable agriculture; crop genetic □ engineering. Biomedicine issues: infectious diseases; antibiotic resistance; □ aerobiology and allergy.

Couse ID: 130104762 **Description:** Comparative Animal Physiology

Full Course Description: The course aims at introducing students to a detailed comparative study of the □ structure and physiology of selected groups of vertebrates with special emphasis on □ body physiology, homeostasis and adaptation to different environments. Particular □ attention will be paid to class mammalia.

Couse ID: 130104763 **Description:** Medical Entomology

Full Course Description: The course deals with insects and other arthropods of medical significance in terms of □ structure, growth and classification in addition to detailed description of mouth □ structure and how it relates to food type and the capacity to transfer disease. The □ course also focuses on disease-causing or transferring insects and other arthropods, its □ significance in the spread of disease and the various means of control of such □ arthropods.

Couse ID: 130104764 **Description:** Advanced Parasitology

Full Course Description: This course includes an introduction on parasitism, physiology of parasitism, □ evolution of parasitic relationships, distribution of parasites and the outer wall of □ worms. Parasite immunology, diagnosis of parasitic infections, vaccines to parasitic □ infections, special topics concerned with the significance of parasites in Jordan in □ addition to an introduction into insects of medical importance will be discussed in □ some detail.

Courses Description

College: Science

Department: Biology

Couse ID: 130104765 **Description:** Molecular Immunology

Full Course Description: This course will introduce students to the basic concepts in immunology, molecular immunology of antigen receptors and other molecular moieties of significance in the development of the immune response, molecular aspects of signal transduction in relation to cell activation. Detailed account of the molecular aspects of immunity both in health and disease will be included.

Couse ID: 130104771 **Description:** Population and Community Ecology

Full Course Description: The course entails detailed discussions on population density and dispersion, demography and analysis of demographic studies, logistic models of population growth, biological and ecological regulation of populations, evolution of life histories and succession, biodiversity and factors that influence it.

Couse ID: 130104791 **Description:** Research Methods and Data Analysis

Full Course Description: The seminar course is intended to train student on the appropriate usage of research articles and other references in preparing manuscripts. It takes the format of asking each student to prepare a manuscript under the supervision of a faculty member and to present the manuscript in a departmental seminar.

Couse ID: 130104793 **Description:** Seminar

Full Course Description: The course deals with issues pertaining to: science as a process, the scientific method, hypothesis testing, scientific literature and resources, writing of research proposals, experimental design, sampling, data collection, statistical analysis, distribution and group analysis, tabulation and presentation of results.

Couse ID: 130104795 **Description:** Special Topic (1)

Full Course Description: The course involves the selection of a specific topic of interest at the beginning of the semester by the faculty member supervising the course. Depending on the topic designated, experimental work may be conducted, but only during the semester in which the course is given.

Couse ID: 130104796 **Description:** Special Topics (2)

Full Course Description: The course involves the selection of a specific topic of interest at the beginning of the semester by the faculty member supervising the course. Depending on the topic designated, experimental work may be conducted, but only during the semester in which the course is given.

Couse ID: 130104799 **Description:** Thisis

Full Course Description: √