



Laboratories shall include the use of experimental methods and techniques to understand the relationship between cell structure and function. Prerequisite(s): BIOL 114\* or BIOL 115\*, Star (\*) represents a course that can be used simultaneously. Lecture: 0 Lab: 3 Credits: 1 Meet: Communication (C) This course contains the basics of microbiology, including the structure, genetics, growth and metabolic diversity of microorganisms. Topics relating to the importance of micro-organisms in health, ecosystems, industry and water and food safety are also included.

Prerequisite(s): BIOL 107 or BIOL 114 or BIOL 115 Presentation: 3 Lab: 0 Credits: 3 BIOL 225 Microbiological laboratory exercises focused on sterile technique, growth needs of microorganisms, identification of microorganisms biochemical activities, food and water microbiology.

Prerequisite(s): BIOL 107 or BIOL 114 or BIOL 115 Presentation: 3 Lab: 0 Credits: 3 Introduction to Transmission and Molecular Genetics is designed for both biology and other science and engineering majors. The use of genetics to solve various practical problems will also be discussed.

bony structures, vasculature, innervation, musculature, and connections between different structures with each other. Prerequisite(s): BIOL 117 or BIOL 115 Presentation: 3 Lab: 0 Credits: 3 BIOL 327 Introduction to Immunology Covers general principles of congenital and adaptive immunity, including the structure and function of components of the immune system, the development of T and B cells, immune system responses to infection and consequences of immune failure. Prerequisite(s): BIOL 107 or BIOL 115 Presentation: 3 Lab: 0 Credits: 3 BIOL 401 Introductory Biochemistry The first part of the one-year biochemical series. This semester shall cover the principles of biological chemistry, in particular proteins, nucleic acids, carbohydrates and lipids; their molecular structure, chemical reactions and practical methods of characterisation; enzymes and enzyme catalysed reactions. Prerequisite(s): (BIOL 107 or BIOL 115) and CHEM 237 Presentation: 3 Lab: 0 Credits: 3 BIOL 402 Metabolic Biochemistry The second part of the one-year biochemical series. This semester deals with biochemical metabolism, focusing on: glycolysis, the citric acid cycle, gluconegenesis, electron transport, and the synthesis and breakdown of biomolecules (amino acids, nucleic acids, lipids, and carbohydrates), blood chemistry, lipid delivery, and metabolic regulation. Prerequisite(s): BIOL 401 and CHEM 239 Presentation: 3

Lab: 0 Credits: 3 Molecular Organization of Cell Structures and Cell Membranes. Proteins, nucleic acids, carbohydrates and lipids, molecular structure, characterization and chemical reactions. Enzymes and enzyme-catalysed reactions and metabolism. It does not meet biochemical

Prerequisite(s): BIOL 210\*, Star (\*) is a which can be buy at the same time. Lecture: 0 Lab: 6 Credits: 2 Meet: Communication (C) This course provides a comprehensive overview of structural, functional and developmental development the human body. Particular attention should be paid to

requirements in biology, biochemistry or molecular biochemistry and biophysics. Prerequisite(s): (BIOL 107 or BIOL 115 or CHE 311) and CHEM 237 Presentation: 4 Lab: 0 Credits: 4 BIOL 404 Biochemical Laboratory Analytical Method in chemical and metabolic methods of proteins, ami acids and nucleic acids, including chromatography, spectrophotetry and electrophoresis. Enzyme reactions. Prerequisite(s): BIOL 401* or BIOL 402* or BIOL 403*, Star (*) represents a course that can be used at the same time. Presentation: 0 Lab: 6 Credits: 3 Satisfied: Communication (BIOL 410 Medical Microbiology Properties of pathogenic bacteria, fungi, viruses, and parasites and their mechanisms pathogenesis, which focuses on the organisms that cause human diseases. Prerequisite(s): BIOL 210 Presentation: 3 Lab: 0 Credits: 3 BIOL 413 Genomics and Transcriptomics Modern Nucleic Acid Sequencing Technology Has Revolutionized The Analysis of Genes and Genomes. In this course, students will learn to use sequence data to analyze the structure and functioning of genomes. Topics include sequencing technologies and data, genor annotation and gene expression analysis. Classes consists of a mixture of lecture and practical exercises. Laptop required. Prerequisite(s): BIOL 104 and BIOL 214 Lecture: 3 Lab: 0 Credits: 3 BIOL 414 Genetics for Engineering Scientists A course in genetics designed for advanced students in engineering and related discipliness. The course covers transmission and their application and solution to the example and related discipliness. The course covers transmission and required.** Presentation of the example and related discipliness are also and their application and protein and prot	c) ne
3 Lab: 0 Credits: 3 Meets: Communication (C) BIOL 415 Advanced Human Genetics focus on formal genetics and molecular approaches to human genetics. Topics include analysis of mendelian inheritance, chromosome mapping of disease genes, mutation analysis, and epigenetic s. Coverage of genomics, methods of genetic manipulation, genetic databases, and regulation of gene expression. The origins and consequences of genetic diversity in populations and the role of natural selection in evolution are also discussed. Prerequisite(s): BIOL 214 Presentation: 3 Lab 0 Credits: 3 BIOL 420 Population Genetics Study of genetic variation in natural populations is the basis of modern evolutionary biology. Population genetics includes theoretical study of the effects of different forces on genetic diversity, as well as empirical analysis of genetic variations observed in real populations. Throughout the course, students' understanding of population genetics theory confirms examples of applications. Topics include genetic drift, genealogical approaches and a merger, structured populations and migration mutation and natural selection. Prerequisite(s): (BIOL 214 and MATH 148) or (BIOL 214 and MATH 151) Presentation: 3 Lab: 0 Credits: 3 BIOL 426 Concepts of Cancer Biology The course is designed to provide a complete overview of cancer as a disease. It covers normal and abnormal cell signal transmission pathways, cancer genes and their regulation, experimental chemical carcinogen, metastasis, cancer prevention and therapy, drug development for cancer treatment, cancer of individual organ sites and application of biotechnology to detect and treat cancer. Lecture: 3 Lab: 0 Credits: 3 BIOL 430 Human Physiology, acid base physiology, respiratory physiology, kidne	,
physiology, gastrointestinal physiology, endocrine physiology, and reproductive physiology. No credits can be obtained for biol 430 and BIOL 530. Prerequisite(s): BIOL 115 Presentation: 3 Lab: 0 Credits: 3 BIOL 431 Zoological Laboratory This course the introduction of some basic concepts of physiology through experimental procedures involving laboratory animals and humans. Experiments include ecg, production and measurement of neural intervention potential, generation and mechanism of muscle contraction, measurement of human blood pressure, measurement of human lung capacity and some other human noninvasive experiments. Prerequisite(s): BIOL 430*, Asterisk (*) represents a course that can be buy at the same time. Lecture: 0 Lab: 6 Credits: 3 Meet: Communication (C) This course focuses on identifying the anatomical and functional body of the nervous system and understanding the principles of interneuronal communication and the integrative functions of the nervous system. Failures of brain functions, which can lead to disease, are also discussed. Prerequisite(s): BIOL 445 Presentation: 3 Lab: 0 Credits: 3 Modern studies on cell structure and function at the cells, subcellular and molecular components of cells, membrane-bound organelles, microtubular and cytoskeletal components and principles of bioenergetics. Prerequisite(s): (BIO 107 and CHEM 237) Presentation: 3 Lab: 0 Credits: 3 BIOL 446 CellBiology Laboratory A laboratory course in cell biology accompany prerequisite(s): BIOL 445*, Asteriot (*) represents a course that can be obtained and intervention and physical biological Literary research on advanced topics in biology, followed by oral lectures on this payments a position of log vision and physical legel and physical components are previously application of log vision and physical components are physical physical components.	- b:
Advanced laboratory course in physical biochemistry and biophysical techniques, providing a wide range of practical, experimental background amplification of key biophysical concepts; many experiments use expertise and equipment available in our classes or otherwise available to molecular biochemistry and biophysics faculty members through contacts at the Advanced Photon Source national laboratory in Argonne. Lecture: 0 Lab: 6 Credits: 3 BIOL 475 Health and Disease in Modern Society The course discusses the biological and medical aspects related to diseases often seen in modern society such as diabetes, depression, cancer, Alzheimer's disease, and autism. The aim of the course is to raise students; interest in health-related issues and to tie lifestyle to the health problems of modern society. The course covers the basic clinical and molecular aspects of diseases and draws attention to the latest discoveries and challenges in the treatment and prevention of diseases. Prerequipment and prevention of diseases. Prerequipment and prevention of diseases. Prerequipment and prevention of diseases and draws attention to the latest discoveries and challenges in the treatment and prevention of diseases. Prerequipment and the latest discoveries and challenges in the treatment and prevention of diseases. Prerequipment and the latest discoveries and challenges in the treatment and prevention of diseases. Prerequipment and the latest discoveries and challenges in the treatment and prevention of diseases. Prerequipment and the latest discoveries and the latest discoveri	
appearance and control. Recent progress in these areas will be discussed in the context of readings of the original literature. Presentation: 3 Lab: 0 Credits: 3 molecules of biological importance; reaction thermodynamics and kinetics; metabolism; cellular localization of biochemical function proteins; nucleic acids; transcription; Translation. Presentation: 3 Lab: 0 Credits: 3 BIOL 510 Medical Microbiology Properties of pathogenics of pathogenesis, focusing on the organisms that cause human diseases, including current trends in infectious diseases. No credit shall be granted for BIOL 510 or BIOL 410. Presentation: 3 Lab: 0 Credits: 3 BIOL 511 Project Management: Business Principles Introduction to the concepts and techniques used to plan and/or analyze a project to develop a range of tasks to complete the project, coordinate and track the work in the tasks, and provide the final product or service. Budgetary considerations will also be discussed. Presentation: 2 Lab: 0 Credits: 2 BIOL 512 Advanced Biochemistry This course provides an advanced view of modern biochemistry for studies in BIOL 504 on metabolism, enzyme mechanisms and kinetics, as well as on the theoretical aspects of the various laboratory techniques used in biochemistry. An instructor's license is required. Prerequisite(s): BIOL 504 with minimum C grade: 3 Lab: 0 Credits: 3 The first lectures cover the principles of chemical toxicity, such as dose response, numerical toxicity indices, metabolic and toxicity factors. Mechanisms of organic toxicity include central nervous system, liver, kidneys, system and the haematological system. Presentations on specific topics emphasise the toxicity mechanism for certain metals, pesticides, solvents and abusive substances. Presentation: 3 Lab: 0 Credits: 3 BIOL 515 Molecular Biology A survey of topics including the structure of nucleic acids, translation, transcription, replication, body DNA, RNA processing, genomics, and	
control of gene expression. Presentation: 3 Lab: 0 Credits: 3 BIOL 520 Laboratory rotation independent study in the research laboratory of a faculty member. Lecture: 0 Lab: 9 Credits: 3 BIOL 521 Population Genetics Studying genetic variation in natural populations is the basis of modern evolutionary biology. Population genetics includes theoretical study of the effects of different forces on genetic diversity, as well as empirical analysis of genetic variations observed in real populations. Throughout the course, students' understanding of population genetics theory confirms examples of applications. Topics include genetic drift, genealogical approaches and a merger, structured populations and migration mutation and natural selection. Presentation: 3 Lab: 0 Credits: 3 BIOL 522 Research Techniques in Biological Sciences I Experimental Techniques in Biochemistry, Cell Biology, Biotechnology, and Microbiology offer discrete modules. Students select the appropriate modules to complement other laboratory courses. Thus, a student who completed, for example, biol 533, (Laboratory in Cell and Molecular Biology) would choose two modules of choice cell biology, biotechnology, or microbiology. A written report is required upon completion of each module. An instructor's license is required. Lecture: 1 Lab: 6 Credits: 3 BIOL 523 Research Techniques in Biological Sciences II This course is a continuation of BIOL 522, where students must complete a research project started with BIOL 522 and write a report in the form of a scientific paper. Lecture: 0 Lab: 3 Credits: 3 BIOL 524 Science and Law: Introduction to Intellectual Property Law and Patents This course focuses on the interaction between science and law, especially intellectual property. Topics include patents, ethical and legal issues related to gene patenting, inventive activity and cooperation, trade secrets and intellectual property legislation. Presentation: 2 Lab: 0 Credits: 2 BIOL 526 Developmental Biology This course deals with	
embryo creation, the creation of different tissues and organs, and the effect of external stimuli on development. Topics include genome structure, gene expression and regulation, cell cycle control, pattern formation, signal transfer, gametogenesis, organogesis, and methods used in the study of developmental biology. In addition to testing sample organisms, human health Apply. Presentation: 3 Lab: 0 Credits: 3 BIOL 527 Immunology and Immunchemistry Basic concepts of immunology, immunomicemia, both biological and molecular. Lecture: 3 Lab: 0 Credits: 3 BIOL 540 Immunology, immunomicemia, both biological and molecular. Lecture: 3 Lab: 0 Credits: 3 BIOL 540 Immunology, immunomicemia, both biological and molecular biology, immunomicemia, both biological and molecular biology, immunomicemia, both biological and molecular. Lecture: 3 Lab: 0 Credits: 3 BIOL 540 Immunology, immunomicemia, both biological and molecular. Lecture: 3 Lab: 0 Credits: 3 BIOL 540 Immunology, immunomicemia, both biological and moleculars. Lecture: 3 Lab: 0 Credits: 3 BIOL 540 Immunology, immunomicemia, both biological and moleculars. Lecture: 3 Lab: 0 Credits: 3 BIOL 540 Immunology, immunomicemia, both biological and moleculars biology, immunomicemia, both biological biology, immunomicemia, both biological and moleculars biology, immunomicemia, both biological and moleculars biology, immunomicemia, both biological biology, immunomicemia, both biological biology, immunomicemia, both biological biology, immunomicemia, both biological and moleculars biology, immunomicemia, both biological biology, immunomicemia, both biology, immunomicemia, biology, immunomicemia, both biology, and immunology, immunomicemia, both biology, immunomicemia, biology, and immunology, immunomicemia, both biology, immunomicemia, biology, immunomicemia, bi	iy, is
experience to pursue their careers in the academy or industry. It focuses on the introduction of the aseptic technique, the identification of microorganisms by several methods and biotechnology procedures such as bacterial genome editing and yeast infection. Antibody properties should be investigated and uaceded, including antigen-antibody reactions, immunoderation of micro-organisms, co-immunity of proteins and ELISA. They study the properties of immune cells, such as fagocytosis and macrophagic migration. Prerequisite(s): BIOL 225 or BIOL 533 with minimum C grade: 0 Lab: 6 Credits: 3 BIOL 544 Cellular Biology This is a postgraduate cell biology course. The course consists of two parts: the initial lectures cover cell structure and function, emphasizing the molecular components; organized in the course includes, in detail, eukarión. Presentation: 3 Lab: 0 Credits: 3 BIOL 545 Advanced Cell Biology. This course is a continuation of BIOL 544 and focuses on the latest advances in cell biology. The course includes, in detail, eukarión cellular signaling networks in response to physiological and pathological stimuli. The course also deals with cross-border topics in the field of cell biology. The focus will be on experimental approaches. An instructor's license is required. Lecture: 3 Lab: 0 Credits: 3 This course is tailored to life sciences graduates that are little or no familiar with Unix/Linux-like operating systems. Topics covered include Linux/UNIX-like operating systems, Bash shell, Perl programming, sequence collection and storage in the lab, multiple sequence alignments, database search for similar sequences, gene prediction, genome analysis and phylogenetic prediction. Presentation: 3 Lab: 0 Credits: 3 BIOL 551 Microbial genomic micromicrobs and related microbioms at unprecedented depths. In this laboratory course, students will use a combination of wet laboratory approaches, including high throughput sequencing technologies and dry laboratory approaches, including high throughput sequencing technologies	e de
Functional Genomics This course is designed to give students a foundation of advanced theoretical and applied methods of modern molecular research. It will emphasise both proven and innovative approaches to solving the problems of functional and comparative genomics and system biology. It also focuses on the use of advanced molecular techniques in areas of significant economic and biomedical importance. Lecture: 3 Lab: 0 Credits: 3 BIOL 572 Literature in Biochemistry The topic of current literature on biochemistry selected by students to conduct a study. An instructor's license is required. Performance: 0 Lab: 3 Credits: BIOL 574 Literature in Biotechnology One of the subjects of biotechnology literature is selected by students for a study. An instructor's license is required. Lecture: 0 Lab: 3 Credits: 3 BIOL 578 Literature in Microbiology One of the topics of the current microbiological literature is selected by the students for a study. An instructor's license is required. Lecture: 0 Lab: 3 Credits: 3 BIOL 578 Literature in Microbiology One of the topics of the current microbiological literature is selected by the students for a study. An instructor's license is required. Lecture: 0 Lab: 3 Credits: 3 BIOL 578 Literature in Microbiology One of the topics of the current microbiological literature is selected by the students for a study. An instructor's license is required. Lecture: 0 Lab: 3 Credits: 3 BIOL 578 Literature in Microbiology One of the topics of the current microbiological literature in selected by the students for a study. An instructor's license is required. Lecture: 0 Lab: 3 Credits: 3 BIOL 578 Literature in Microbiology One of the topics of the current microbiological literature in selected by the students for a study. An instructor's license is required to proper that is the culmination of their master's degree. This course is required to fire the project chase and the selected by the students of the project chase and the project chase and the project chase and the project chase and the projec	n ch 1

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