

environmental and social problems facing our society, which are caused by modifying cell activities.

COMMENTS: This is a course for nonmajors with no prerequisites. No previous biology, chemistry, or math will be assumed. Although not part of a cluster, this course does meet one group requirement for science.

BI 103 INTRODUCTION TO HUMAN PHYSIOLOGY (4)

Lombardi, 26 SC 2

MEETS: 11:30 MWF+, 138 Gilbert

FORMAT: Lecture/Discussion/Lab

AVERAGE CLASS SIZE: 175

WEEKLY READINGS: 20-50 Pages or 1-2 Chapters and Lab Har'out

EVALUATION: 20%- Nine Labs Attendance/Participation; 50%-Midterm; 30%-Final

WEEKLY READINGS: Guyton, PHYSIOLOGY OF THE HUMAN BODY; 9 Lab Handouts

DESCRIPTION: This course is an introduction to the function (physiology) of the human body. The lecture meets 3 times per week for 50 minutes and the laboratory sessions meet one time per week (Thursdays only) for 50 minutes. No chemistry background is required. Lab attendance/participation makes up 20% of the grade. Lecture/Lab topics for discussion include: (1) Cell Physiology; (2) Nervous System; (3) Skeletal Muscle Contraction; (4) Cardiorespiratory System; (5) Digestion; (6) Endocrinology (hormones); and (7) Exercise Physiology.

BI 115 INTRODUCTION TO ANIMAL BEHAVIOR (3)

Fernald/Hagedorn, 305 Huestis

MEETS: 11:00-12:20 UH, 138 Gilbert

FORMAT: Lecture

AVERAGE CLASS SIZE: 200

WEEKLY READINGS: 1 Chapter

EVALUATION: 30%-2 Midterms; 40%-Final

READINGS: Grier, BIOLOGY OF ANIMAL BEHAVIOR

DESCRIPTION: The study of animal behavior has changed from the anecdotal stories of the behavior of pets and zoo animals to an important branch of biological science. The emphasis in this course will be on studies originating with some observation of an animal species in its natural environment which then lead naturally to the exploration of the phenomenon in more detail. We will emphasize the evolutionary aspects of behavior as well as attempt to understand the mechanisms that underly it. Since the essence of animal behavior is careful observation, films will be used to demonstrate many of the points discussed, with ample opportunity to compare and contrast interpretation of the behavior observed.

BI 192 NATURE OF ANIMAL LIFE (4)

Murphy, Rm. 73 SC 2

MEETS: 10:30 MWF, 30 SC 1

FORMAT: Lecture/Lab

AVERAGE CLASS SIZE: 60

WEEKLY READINGS: 20-30 Pages

EVALUATION: 9%-Attendance; 23%-Lab reports; 45%-2 Midterms; 23%-Final

READINGS: Raven and Johnson, BIOLOGY

DESCRIPTION: A Study of the way in which animals carry out their life functions; respiration, circulation,

digestion, excretion, reproduction, growth, sensation-perception, behavior, and genetics.

BI 199 PLAGUES AND BLIGHTS (3)

Carroll/Courtney, 303 SC 1

MEETS: 13:30 MWF, 314 SC 1

FORMAT: Lecture/Discussion

AVERAGE CLASS SIZE: 25

WEEKLY READINGS: 25 Pages

EVALUATION: 20%-2 Papers; 30%-Project; 30%-Final

READINGS: Will include a packet of readings from Science 80-86, Natural History, Newsweek, Scientific American as well as instructor's write-ups and photocopies from several books.

DESCRIPTION: Throughout history epidemic diseases have affected human civilization, not only causing death and disaster, but also acting as a catalyst for social change. During this seminar, we will first consider the causes of disease and how they spread. We will then study case histories of historically important human and crop diseases including: The Black Death, smallpox, malaria, AIDS, potato blight, and wheat rust. In the final weeks of class each student will present a short research paper on a disease of his/her own choosing.

COMMENTS: Class sessions will involve lectures, facilitated discussions, and student presentations. Seminar may be taken only for P/NP grade.

BI 200 MEDICAL TERMINOLOGY (2)

Strange/Stroud

MEETS: 15:30-16:50 U, 16 SC

FORMAT: Lecture

EVALUATION: Weekly Quizzes; Paper

DESCRIPTION: The intent of this course is to enrich a student's medical vocabulary through a programmed learning text, mini lectures, and relevant guest speakers. The course focuses on Latin prefixes, suffixes, word roots, and combining forms to build a competent vocabulary. By studying this vocabulary, students will learn the fundamentals of anatomy and physiology; however, the course requires no previous knowledge of science. The course is most relevant to those who plan to have business contact with the medical profession.

COMMENTS: Register at the Biology table during registration.

BI 202 GENERAL BIOLOGY II (3 or 4)

Postlethwait/Hague 285 SC 1/470 SC 1

MEETS: 14:30 MWF, 138 Gilbert

FORMAT: Lecture/Discussion/Lab

AVERAGE CLASS SIZE: 200

WEEKLY READING: 15 Pages

PREREQUISITES: BI 201 or equivalent

EVALUATION: 65%-2 Midterms; 35%-Final

READINGS: Starr and Taggart, BIOLOGY

DESCRIPTION: How living things interact with each other and their environment.

COMMENTS: BI 208, General Biology Lab II, may be required for some majors. Check with your advisor.

BI 222 HUMAN GENETICS (3)

Cottrill

MEETS: 12:30 MWF, 110 Fenton

FORMAT: Lecture

WEEKLY READING: 1-2 chapters

EVALUATION: 25%-Homework; 50%-2

Midterms; 25%-Final

READINGS: Novitski, HUMAN GENETICS

DESCRIPTION: Basic concepts of genetics, especially as they relate to humans. Discussions of related topics such as blood groups, immunology, prenatal effects, genetic effects of radiation and other mutagens, biology of twinning.

COMMENTS: This course is part of an approved science cluster.

BI 292 CELLULAR BIOCHEMISTRY

Sprague/Sistrom, 255 SC 2; 389 SC 1

MEETS: 10:30 MW, 123 SC 1

FORMAT: Lecture/Tutorial

AVERAGE CLASS SIZE: 160

WEEKLY READING: 10 Pages

EVALUATION: 20%-Quizzes; 45%-Midterm; 35%-Final

READINGS: Stryer, BIOCHEMISTRY

DESCRIPTION: Structure of proteins; enzymes and how they work; how cells obtain energy control of chemical reaction in cells.

BI 320 EVOLUTIONARY BIOLOGY (3)

Gray, 112 Quonset

MEETS: 11:30 MWF, 30 SC 1

FORMAT: Lecture

AVERAGE CLASS SIZE: 50

WEEKLY READING: 30-50 Pages

PREREQUISITES: Core biology or equivalent, or instructor's consent.

EVALUATION: 10%-Quizzes; 20%-Paper; 30%-Midterm; 40%-Final

READINGS: Dodson and Dodson, EVOLUTION: PROCESS AND PRODUCT

DESCRIPTION: An introduction to evolutionary biology. The goal will be to develop an understanding of how plants and animals adapt or fail to adapt to their environment, how life originated, how new species evolve, and that help us to explain the patterns that are evident in the history of life.

COMMENTS: This course is intended for both biology majors and students in other disciplines (e.g. geology, anthropology, chemistry, general science, etc.), who desire a more comprehensive course in evolutionary biology than a freshman course for non-majors.

BI 322 HUMAN PHYSIOLOGY II (3)

Lombardi, 26 SC 2

MEETS: 8:30 UH+, 123 SC 1

FORMAT: Lecture/Lab

WEEKLY READING: 50 Pages or 1-2 Chapters; Lab Manual

PREREQUISITES: BI 321

EVALUATION: 30%-Lab; 40%-Midterm; 30%-Final

READINGS: Fox, HUMAN PHYSIOLOGY; Lab Manual

DESCRIPTION: Major human physiological systems will be discussed including the circulatory, respiratory, digestive, endocrine, and reproductive systems. Lab work will complement the lecture material.

COMMENTS: This course must be taken in sequence after BI 321, Human Physiology I.

BI 351 ANIMAL PHYSIOLOGY (4)

Munz, 337 SC 1