

SYLLABUS
PART I
EDISON STATE COMMUNITY COLLEGE
BIO 124S HUMAN BIOLOGY
4 CREDIT HOURS

COURSE DESCRIPTION

Introduction to the human organism with emphasis on: 1) the organ systems, 2) the balance between systems, 3) practical health-related aspects of each organ system, 4) human genetics, 5) interaction with microbes, and 6) human's place in the ecosystem. Designed for non-science majors or individuals in an entry-level health science program. Three hours of lecture integrated with two hours of lab each week. Prerequisite: MTH 093D or equivalent. Lab fee.

COURSE GOALS

The student will:

Bloom's Level		Gen Ed Outcomes
2	1. Explain the basic structure and inter-relationship of cells, tissues and organ systems.	1-6
2	2. Interpret some of the basic terminology of anatomy and physiology.	2, 6
3	3. Relate information about organ systems to practical health issues that challenge humans throughout their life, including the effects of cancer on various systems of the body.	1, 2, 4, 6
1	4. Describe how the human body defends itself against the constant bombardment of the microbial world.	2, 4
1	5. Identify some of the agents of diseases (both old and new) that plague man, including mechanisms for dissemination and prevention.	4, 6
2	6. Discuss basic principles of genetics, and advancements in gene technology particularly as it relates to medical genetics.	1, 2, 6
5	7. Appraise and assess man's position within the ecosystem with emphasis on pollution, population control and other environmental changes.	1, 2, 4, 6
4	8. Collect and analyze current material on the worldwide web as it relates to a topic pertaining to human biology and summarize in a written report.	2, 5, 6

CORE VALUES

The Core Values are a set of principles that guide in creating educational programs and environments at Edison State. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

TOPIC OUTLINE

1. Reproductive System/Birth Control/Sexually Transmitted Diseases
2. Human Development/Embryology/Aging
3. Genetics/Gene Technology
4. Structure and Function of Cells
5. Tissues and Body Organization

6. Musculoskeletal System
7. Circulatory System
8. Respiratory System
9. Digestive System
10. Urinary System
11. Nervous System/Special Senses
12. Microbes and Human Diseases
13. The Body's Defenses Against Microbes/Immunity
14. Cancer
15. Our Role in the Ecosystem - Population Concerns