

North Central Michigan College

NCMC MASTER COURSE SYLLABUS

Last Date Revised: 12/22/05

DIVISION/AREA: Liberal Arts

DEPARTMENT: Biology

DIVISION DIRECTOR: Mark Gaylord

ORIGINATOR: Dan Pepin, DDS

DEAN OF INSTRUCTION: Timothy Dykstra

HOURS OF INSTRUCTION:

Credit hours: 4

Lecture: 3

Lab: 2

Contact hours:

COURSE TITLE: Human Biology with Lab

COURSE ALPHA: BIO

COURSE NUMBER: 133

CATALOG DESCRIPTION: A lab science course that covers selected structures and functions with application to current health issues. The lab emphasis is the identification of both gross and microscopic anatomy. This course does not fulfill requirements for the AAS degree in nursing.

PREREQUISITE(S): No prerequisite but high school biology is recommended.

COREQUISITE(S):

GENERAL EDUCATION/PROGRAM OUTCOMES:

The ability to think critically, write effectively, and acquire knowledge independently.

COURSE OBJECTIVES AND OUTCOMES:

Upon completion of this course, students will understand how their bodies function and how that knowledge applies directly to their health and well-being.

METHODS OF INSTRUCTION:

Lectures and discussion. Additional adjuncts such as of anatomical models, microscopic slides, diagrams, multi-media presentations and web-based lab exercises will be utilized as applicable

METHODS OF EVALUATION:

Tests, research papers, participation in discussion forums.

REQUIRED TEXT AT TIME OF COURSE ADOPTION/REVISION:

Human Biology, Sylvia S. Mader

Reasonable accommodations can be provided to students with documented disabilities. Please contact Learning Support Services at 348-6817 to arrange these.

SUGGESTED TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:

(List general content description of what is being covered each week)

Week 1	Cardiovascular system, with emphasis on diet, exercise and cardiovascular disease
Week 2	Cardiovascular system, blood and its disorders
Week 3	Digestive system, nutrition and its impact on well-being
Week 4	Digestive system, nutrition and its impact on well-being
Week 5	Respiratory system, bronchial and pulmonary diseases
Week 6	Musculoskeletal system and associated injuries
Week 7	Musculoskeletal system and associated injuries
Week 8	Nervous system and the impact of drugs and alcohol
Week 9	Nervous system and the impact of drugs and alcohol
Week 10	Endocrine system, anabolic steroids and athletics
Week 11	Reproductive system and sexually transmitted diseases
Week 12	Reproductive system and sexually transmitted diseases
Week 13	Development & Aging
Week 14	Stem cell research, genetic counseling and cloning
Week 15	Immune system and defenses against diseases
Week 16	Cancer and its prevention

APPROVED FOR ADOPTION/REVISION BY THE CRD/AP COMMITTEE ON 1/25/06