

# North Hennepin Community College

## BIOL 1130: Human Biology with a Lab

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites:

This course requires any of these five prerequisites

Reading College Level

Reading at College Level

Placement into EAP 1230

EAP 0930 - Academic Reading and Study Skills (Minimum grade: 1.67 GPA Equivalent)

EAP 1230 - College Reading and Studying Skills

Corequisites: None

MnTC Goals: Goal 03 - Natural Science

This introductory level course provides students with a one semester overview of the structure and function of the human body. The course is open to all students: however, it does not fulfill the human anatomy and physiology requirement for those who are planning to pursue a career in the health sciences. This course has a laboratory experience and fulfills the requirements for MnTC Goal Area 3. (3 hours lecture, 2 hours lab)

**B. COURSE EFFECTIVE DATES:** 04/25/2011 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. This course provides a basic introduction to the general principles of biology through the study of the human body. Examples of topics that will be covered include anatomy and physiology, genetics and inheritance, immunity and disease, evolution, and the connections between humans and the environment. The laboratory component will include an exploration of the human body through experimentation and evaluation.

### D. LEARNING OUTCOMES (General)

1. Demonstrate basic knowledge of the human body and its organ systems. (MnTC G 3, comp a, c; NHCC ELO 1, 2)
2. Discuss cell development and cellular organization. (MnTC G 2, comps a, c; MnTC G3, comps a, c; NHCC ELO 1, 2, 3)
3. Describe the defining features of humans. (MnTC G 2 comp a, b; MnTC G 3, comps a, c, d; NHCC ELO 1, 2, 3)
4. Describe the human organ systems and their function as it relates to wellness and disease and to societal choices. (MnTC G 2 comp a, c; MnTC G 3 comp a, c, d; NHCC ELO 1, 2, 4)
5. Recognize and express the impact of genetics, personal choice, and medical treatments in human health. (MnTC G 2 comp a, b, c, d; MnTC G 3 comp a, b, c; NHCC ELO 1, 2, 3, 4)
6. Evaluate data collected through laboratory procedures and experimentation on the functions of the human body. (MnTC G 2 comp a, b, c, d; MnTC G 3 comp a, b, c; Program Goals 1, 2, 3)

## **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

### Goal 03 - Natural Science

1. Demonstrate understanding of scientific theories.
2. Formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines. One of these experimental components should develop, in greater depth, students' laboratory experience in the collection of data, its statistical and graphical analysis, and an appreciation of its sources of error and uncertainty.
3. Communicate their experimental findings, analyses, and interpretations both orally and in writing.
4. Evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.

## **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

## **G. SPECIAL INFORMATION**

1. Knowledge of Human Cultures and the Physical and Natural World --Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.
2. Intellectual and Practical Skills - Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy; Information literacy; Teamwork and problem solving.
3. Personal and Social Responsibility and Engagement - Including: Civic knowledge and involvement; campus, local and global; Intercultural knowledge and competence; Ethical reasoning and action; Foundations and skills for lifelong learning .
4. Integrative and Applied Learning - Including: Synthesis and advanced accomplishment across general education, liberal studies, specialized studies and activities in the broader campus community