Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Collegewide Curriculum Committee.

DEPT.: BIOLOGY  COURSE NO.: 1115

NUMBER OF CREDITS: 3

COURSE TITLE: HUMAN BIOLOGY

CATALOG DESCRIPTION: Emphasizing the human, this course will cover some of the fundamental topics in biology. Students will explore the structure and function of healthy human body systems and investigate numerous abnormalities and disease states. Additional topics may include human development, aging, human genetics, DNA technology, genetic engineering, biotechnology, and ecological interactions

AUDIENCE: Biology nonmajors, prehealth professionals, students interested in the human animal

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area 3: by meeting the following competencies: 1. Demonstrated understanding of the scientific method.
2. Development of laboratory techniques/skills.
3. Preparation of laboratory reports/findings.
4. Development or advancement of biological literacy and critical thinking skills.

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: None

LENGTH OF COURSE: 1 semester

THIS COURSE IS USUALLY OFFERED:
Every other year ☐ fall ☑ spring ☑ summer ☐ undetermined ☐

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. An understanding of basic biological principles
   b. Investigation of human body systems in health and disease
   c. Special topics in human biology
2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
   a. An understanding of the scientific method and its use
   b. An appreciation for the importance and necessity of skepticism
   c. The creation of an appropriate thinking skills climate in both lecture and laboratory

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
   a. The production of researched writing assignments
   b. The preparation of lab results and reports

4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:
   a. Human biological diversity will be discussed where appropriate

TOPICS TO BE COVERED: Basic principles of biology; Human body systems in health and disease; Special topics in human biology. See attached COURSE SCHEDULE.

LIST OF EXPECTED COURSE OUTCOMES:
   a. understand how scientists approach and solve problems in the natural sciences,
   b. apply those methods to solve problems that arise in the natural sciences,
   c. use inductive reasoning, mathematics, or statistics to solve problems in natural science,
   d. engage in independent and collaborative learning,
   e. identify, find, and use the tools of information science as it relates to natural science
   f. critically evaluate both source and content of scientific information, and
   g. recognize and correct scientific misconceptions.

LEARNING/TEACHING TECHNIQUES used in the course are (when applicable):
✓ Collaborative Learning  ❑ Problem Solving
❑ Student Presentations  ❑ Interactive Lectures
✓ Creative Projects  ❑ Individual Coaching
✓ Lecture  ❑ Films/Videos/Slides
✓ Demonstrations  ❑ Other (describe below)
✓ Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE (when applicable):
✓ Reading  ❑ Tests  ❑ Individual Projects
❑ Oral Presentations  ❑ Worksheets  ❑ Collaborative Projects
✓ Textbook Problems  ❑ Papers  ❑ Portfolio
❑ Group Problems  ❑ Term Paper
❑ Other (describe below)
EXPECTED STUDENT LEARNING OUTCOMES:

a. explain the scientific method and understand its application in biology
b. understand some of the fundamental principles of biology
c. explain chemical and cellular events underlying processes occurring in the body
d. describe the basic anatomy and functions of systems within the body
e. describe the interactions occurring between humans and the natural world

"This course will cover the characteristics of hazardous wastes and its safe handling, storage, and disposal."

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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