Course Title: Human Physiology II
Semester Course Prefix and Number: BIOL 2452
Submitted By: C. Giermann
Approval Date:
Old Quarter Course Prefix and Number:
Revision Date: 2/2003

Number of Credits: 1
Number of Lecture Credits: 1
Number of Lab Credits: 
Number of Lab Hours: 
Number of Studio/Demonstration/Internship Credits: 
Class Size: 
Negotiated by AASC on: (date)

Course Purpose Code:
- 0 – Developmental Courses
- 1 – Non-transferable
- 2 – Technical course related to career programs
- 3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
- X 4 – Other college course not considered a part of MNTC (e.g. computer science, health, physical education)
- 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.
- 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:
The course will offer students who are co-enrolled in 2552 (Anatomy & Physiology II) a more thorough examination of the physiological topics covered through small group discussions, computer-based physiology simulations, and case studies. The examination of the physiologic processes will be primarily through clinical applications, making this course ideal for those students interested in a career in the health field. Student must be co-enrolled in A & P II.

Prerequisites and/or recommended entry skills/knowledge:
Course Prerequisite(s): Co-Requisites BIOL 2552
Reading Prerequisite: College Level Reading/ Computer Skills Helpful
Composition Prerequisite: 
Mathematics Prerequisite: 

Career Programs and Transfer Majors Accessing this Course:
Recommended for students co-enrolled in BIOL 2552 who intend to pursue a health career or take advanced studies in anatomy or physiology.

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:
(Notes: No more than two goals may be met by any one course. Curriculum Committee review and the Chief Academic Officer’s approval are required.)
0. X None 6. The Humanities and Fine Arts
1. Communications 7. Human Diversity
2. Critical Thinking 8. Global Perspectives
3. Natural Sciences 9. Ethical and Civic Responsibility
5. History and the Social and Behavioral Sciences
Learning Outcomes: (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:
Analyze physiologic processes and relate anatomical abnormalities and/or biochemical abnormalities of human tissues and organs with human pathology/diseases. Topics covered will coincide with those discussed in Anatomy and Physiology II.

Student Assessment Methods:
Assessment will be primarily through 2-3 page papers and 1 page case study analyses.

Use of Instructional Technology: (includes software, interactive video and other instructional technologies):
PhysioEx/CyberEd/MediaPhys: Physiology Software
PowerPoint

Additional Special Information: (special fees, directives on hazardous materials, etc.)

Transfer Information: (Please list colleges/majors that accept this course in transfer.)

Course Outline Revision History:

Outline of the major course content:
Topics covered will include diseases of the eye/ear, cardiovascular system, digestive system, endocrine system, respiratory system, urinary system, reproductive system and may include (but not limited) to the following:
- Hearing Loss/Refractory Disorders
- Hormones Use by Athletes/Hormone Replacement
- Cretinism/Hypo & Hyperthyroidism
- Cushing syndrome
- Diabetes
- Sickle Cell Anemia/Porphyria/Leukemia/Hemophilia
- CVA/MI/Arrhythmia
- Hypertension/Coronary Artery Disease
- Hepatitis/Cholelithiasis/Diverticulosis/Colon Cancer
- Asthma/Lung Cancer/Emphysema
- Nephritis/Renal Clearance
- Infertility

Approvals:

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Distribution: Original – Instructional Services
Copies: Transfer Specialist, Originating Faculty Member, Records
Revised: March 2010