

**NORTHEASTERN TECHNICAL COLLEGE
10-WEEK COURSE OUTLINE**

COURSE:	PREFIX NO.	EFFECTIVE DATE	NEXT REVIEW DATE		
Biology	BIO 211	January 2001	January 2002		
TITLE:	CREDITS	CONTACTS			
		CLASS	- LAB	- TOTAL	
Anatomy and Physiology II	4	3	3	4	

PREREQUISITES: The student must have successfully completed BIO 210 with a grade of "C" or better.

DESCRIPTION: This class is a continuation of Anatomy and Physiology I and will continue the study of the body systems, including the nervous system, respiratory system, digestive system, cardiovascular system, lymphatic system, urinary system, endocrine system, and reproductive system. The fetal pig or cat will be used as an example for studying the different systems in lab; in addition, sheep hearts, cow eyes, pig kidneys, and sheep brains will also be used.

TEXTBOOK(S) OR ALTERNATIVE: Hole's Anatomy and Physiology by Shier, Butler, and Lewis, 8th edition, 1999 (text)

Lab Manual: Photomanual & Dissection Guide for the Cat by Bohensky and Lab Handouts for BIO 211

MATERIALS (specifying those to be purchased by student): Students are required to purchase a dissecting kit. Latex gloves are recommended for lab and should be furnished by the student. Students may bring a lab coat if they wish. The dissection and animals will be supplied by NETC.

COLLATERAL READING:

CLASS MANAGEMENT ACTIVITIES (Attendance, tardies, testing, etc.):

Attendance: Students are expected to attend all scheduled classes and laboratories. According to college policy, a student may miss 20% of the scheduled class periods. When a student exceeds this limit, he or she will be dropped for excessive absences. If the student initiates the withdrawal before midterm, a grade of "W" will be used. After midterm, the grade of "W" will only be used for students who are passing the course; if a student who is not passing initiates a drop after midterm, he or she will receive a grade of "WF". If the instructor initiates the withdrawal due to excessive absenteeism, a grade of "F" will be assigned.

Tardies: A student is considered tardy if he or she arrives for class after the roll has been taken. Three tardies constitute one hour of absence.

RESOURCES (A-V, persons, tools/equipment): The following materials will be necessary for lecture or lab: TV/VCR--mounted in each classroom, Dukane filmstrip projector, slide projector, overhead projector, video disk player, microscopes--to view tissue slides, and bioscopes--to examine body surfaces.

GRADING POLICY: Lecture tests will be averaged together, with the average accounting for 50% of the final grade. There will also be a lab test given each week covering the previous week's lab. These lab tests will be averaged together to account for 25% of the final grade. No grades will be dropped. If a student misses an announced lecture test, he/she may use a "No Questions Asked Certificate" to make up the test. If the material is not made up within one week of the original due date, a zero will be recorded. A student must pass lab in order to pass the course. Students are also required to submit three current event reports based on periodical or Internet sources. The criteria for these reports are discussed completely in the syllabus, as attached. These reports will be averaged with homework to account for 25% of the final average.

GRADING SCALE

92 - 100 = A
83 - 91 = B
74 - 82 = C
65 - 73 = D
BELOW 65 = F

COURSE TOPICAL OUTLINE (List topics and sub-topics of course) and Calendar or approximate length of time devoted to topic.

Nervous System = 2 weeks
Respiratory System = 2 weeks
Digestive System = 2 weeks
Cardiovascular System = 2 weeks
Lymphatic System = ½ week
Urinary System = 1½ weeks
Endocrine System = covered in lab
Reproductive System = covered in lab

Each student will receive a copy of the syllabus with a topical schedule and testing information on the first day of class.

COURSE OBJECTIVES: Students enrolled in BIO 211 will solve problems incorporating critical thinking, reasoning, and creativity. Specific competencies that will be addressed include the student's ability to

- * collect information needed for a given application
- * analyze information
- * evaluate information to determine usefulness
- * apply knowledge to make decisions and solve problems

INSTRUCTIONAL METHODS TO COMPLETE OBJECTIVES: Methods of competency assessment will occur by the following:

1. Students completing selected labs with a grade of C or better will have demonstrated the competencies.
2. Specific labs to be used in assessment include the digestive physiology lab and systemic circulation lab, in addition to lecture tests on the cardiovascular system and metabolism.

EVALUATIVE METHODS TO APPRAISE OBJECTIVES: Reinforcement of college wide competencies will occur in the areas of communication, information, mathematical/computational, and interpersonal skills.

LABORATORIES

Lab tests will be given each week on the previous week's material. The majority of the tests will be practical tests, using fetal pigs or cats, pig kidneys, sheep brains, and sheep hearts.

Week 1 -- The Brain & Cranial Nerves

Week 2 -- Thoracic Cavity

Week 3 -- Oral Cavity

Week 4 -- Abdominal Cavity

Week 5 -- Blood and Blood Typing

Week 6 -- The Heart

Week 7 -- Systemic Circulation

Week 8 -- Fetal Circulation

Week 9 -- Endocrine System

Week 10 -- Urinary System & Reproductive System

Exam Day -- Test on Urinary & Reproductive System