SUFFOLK COUNTY COMMUNITY COLLEGE
RIVERHEAD, N.Y.

BY 32
ANATOMY AND PHYSIOLOGY II

Dr. Richard Goldberg       Spring 2006


OBJECTIVES OF THE COURSE:
BY32-Anatomy and Physiology II- is a continuation of BY30-Anatomy and Physiology I. As in
the first half of the course, the basic principles of the structure and function of the human body
will be discussed in depth. Each of the organ systems covered will be presented from an
organizational, cellular and biochemical viewpoint. At the completion of the course, the student
will be able to discuss:
1. The digestive system and its principle components, its gross and microscopic anatomy
   and where each type of nutrient is digested and absorbed.
2. Describe and list the principle types of exchanges in the body.
3. Trace the movement of blood and identify the components of the cardiovascular system
   as well as the functions of the various elements making up Blood.
4. The excretory system and its components, including the gross and microscopic anatomy
   of the kidney, the process of blood filtration and absorption and the maintenance of
   homeostasis.
5. The endocrine system and the various types of hormones.
6. The events associated with mitosis and meiosis, the structure and function of the male
   and female reproductive systems, the events and processes involved with
   spermatogenesis and oogenesis.

PROCEDURES FOR ACCOMPLISHING THESE OBJECTIVES:
1. Lectures explaining the major course concepts.
2. Laboratory sessions dealing with the ideas presented in the lecture.
3. Demonstrations and visual aids where pertinent.

ATTENDANCE:
1. Students are urged to attend ALL CLASSES. The college defines excessive absence or
   lateness as more than the equivalent of one week of classes. Excessive absence or
   lateness may result in removal from the class.
2. Students are responsible for ALL MATERIAL COVERED IN CLASS, INCLUDING THE
   READING IN THE TEXTBOOK.
3. Attendance will be taken at the beginning of each class. Each class will begin ON TIME.

GRADES:
1. There will be five lecture and two laboratory examinations.
2. NO MAKE-UP EXAMINATIONS WILL BE GIVEN. All dates for all examinations will be
   given at the beginning of the course. It is the responsibility of the student to be ON TIME.
for his/her examinations. Missed examinations may result in a grade 0 for that examination.

3. Final grades are based upon 70% lecture examinations and 30% laboratory examinations. The student's final grades will be the EXACT AVERAGE of these examinations.

4. The instructor reserves the right to temper the student's final grade one letter grade, based upon the student's deportment, class participation and over-all performance.

**LECTURE SCHEDULE**

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