Dr. Patrick Slavin
Anatomy and Physiology II
BIO 114 Section 30, Tuesday and Thursday 2:00 – 3:20 pm
Fall, 2008

SYLLABUS

(Subject to Change)

Week 1	Course Introduction, Objectives and Policies Blood (Chapter 16) – characteristics and functions, formed elements, blood groups, coagulation.
Week 2	Heart (Chapter 17) – coverings and chambers, the pathway of blood in the heart, physiology and EKG's, heart sounds, regulation of rate, disorders
Week 3	Blood Vessels (Chapter 18) – types of blood vessels, histology, physiology of blood pressure. Major veins and arteries. **Test #1**
Week 4	Respiratory System (Chapter 21) – histology and gross anatomy. Respiratory physiology
Week 5	Respiration continued – respiratory volumes, control of respiration, diseases of the respiratory system
Week 6	Digestive System (Chapter 22) – gross anatomy of the mouth and teeth, stomach, small intestine, large intestine
Week 7	Digestive system continued - histology, physiology of digestion, diseases. **Test #2**
Week 8	Urinary System (Chapters 24 and 25) – gross anatomy, physiology of the nephron, control of micturition, fluid, electrolyte and acid-base balance, diseases
Week 9	Endocrine System (Chapter 15) – major glands and hormones, positive and negative feedback, diseases and disorders. **Test #3**.
Week 10	Male Reproductive System (Chapter 26) – histology, gross anatomy, accessory glands, sperm structure and production
Week 11	Female Reproductive System (Chapter 26) – histology and gross anatomy, mammary glands, breast cancer, STD's
Week 12	Meiosis, Spermatogenesis and Ovulation (Chapter 26) – meiotic division, spermatogenesis, hormonal control of ovulation, menstrual cycle, fertilization, early embryogenesis. **Test #4**
Week 13	Heredity and Genetics (Notes and Handouts) – DNA and chromosomes, dominant and recessive genes, Punnett squares
Week 14	Heredity and Genetics continued - chromosomal abnormalities, sex-linked genes, genetic disorders, genetic screening. **Test #5**

FINAL EXAM. Laurel Hall Room 132. Date and time to be announced.

Course Objectives
At the completion of the course the student will be able to:

- Describe, using proper terminology, the overall structure/function relationships of the major body systems.
- Explain the progression of structural levels from chemical compounds to organ systems.
- Explain how homeostasis maintains body function by dynamic counterbalancing forces.
- Identify the major anatomical and histological features of the major organ systems.
- Critically analyze the interrelationships of the organ systems.

TEXT: Anatomy and Physiology, 3rd ed. by Elaine Marieb
Benjamin Cummings, 2008
ISBN: 978-0-8053-3862-1

Grading
Five tests, each contributing 20% to the final grade, will be given during the semester in the Pemberton and Mt. Laurel Test Centers. The tests are not cumulative. Each test will cover the lecture material since the previous test. These tests will be of the "objective" type: multiple choice, matching, one or a few word answers. It is the responsibility of the student to find out the dates and times that the test center will be open.
The final exam is optional. If the final exam is taken, the lowest of the five test scores will be dropped. If you miss a test, you must take the final. If you miss more than one test, a make-up will be offered during final exam week. A make-up test may be entirely or partially essay questions. The final exam will be given in Parker 329 at a date and time to be announced.

Grades
A = 90 – 100
B+ = 85 – 89
B = 80 – 84
C+ = 75 – 79
C = 70 – 74
D = 60 – 69
F = < 60

X - X contracts will only be given if a student is receiving a grade of C or better at the time of the contract.

Attendance
Attendance will be taken before every class. Please let me know ahead of time if you are unable to attend. **It is the student's responsibility to obtain material from missed lectures.** Class notes are posted on my website. (See faculty websites – BCC home page)

Contact Instructor
Office: 331J Parker

Office Hours: Monday, Wednesday and Friday – Parker 331J, 9:00 – 10:00 am
Tuesday and Thursday –Laurel Hall, 11:00 – Noon

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