

Syllabus: Human Anatomy & Physiology

BIOL 2652 Human Anatomy & Physiology II Spring 2011: Sections A, B, C, D and E

Prerequisite: BIOL 2651

Lectures: 2:00 pm – 3:15 pm Mondays & Wednesdays BC 3009

Labs:

Section A: 10:00 am – 11:50 am Mondays, BC 2045

Section B: 9:30 am – 11:20 am Tuesdays, BC 2045

Section C: 12:30 pm – 2:20 pm Tuesdays, BC 2045

Section D: 3:00 pm – 4:50 pm Tuesdays, BC 2045

Section E: 9:30 am – 11:20 am Thursdays, BC 2045

Instructor: Dr. Kencliffe Palmer

Office: 2068 NH

Office Hours: 12:00 pm – 2:00 pm Mondays & Wednesdays or by appointment

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Course Description:

This course is Part II to BIOL 2651. BIOL 2652 utilizes the basic principles of Functional Anatomy, Molecular Physiology and Nerve & Muscle Physiology learned in Part I to examine the functional anatomy and general physiology of human cardiovascular, immune & lymphatic, respiratory, digestive, excretory, endocrine and reproductive systems. Human development is also emphasized.

Texts:

Tortora GJ, Derrickson B. Principles of Anatomy and Physiology 12th edition, New Jersey: John Wiley & Sons, Inc. 2009.

Smith ME, Loughry WJ. Laboratory Manual for Human Anatomy and Physiology 3rd edition, Massachusetts: Pearson Custom Publishing, 2002. (Optional)

[Dr. WJ. Loughry has made all lab exercises available from his webpage on Department of Biology web site.]

Lab Materials:

Lab Specimens are provided but students are responsible to provide their own lab kits (available in the bookstore).

Course Goals:

The goal of BIOL 2652 is to provide students with knowledge of normal function of the organ systems and thereby provide the information base for interpreting data relating to health and abnormal function (general educational outcome 5 & 7, specific departmental outcome 1, 3 & 4). Additionally, this course also emphasize how form fits function and

lay the foundation for higher division and professional school courses (general educational outcome 4 & 8; specific departmental outcome 5).

Evaluation:

There are seven (7) exams in this course; three (3) sectional exams, 3 lab exams and a final comprehensive exam. Each sectional exam will consist of 50 multiple choice questions and will make up 20 % (20 points) of the student's final grade. Each lab exam will account for 5 % of the final grade. The final comprehensive exam will consist of 100 multiple choice questions and will make up 25 % of the final grade.

Final Grade:

Three Sectional Exam 60 %

Three Lab Exams 15 %

Final Comprehensive Exam 25 %

Total 100 %

80 – 100 A

70 – 79 B

60 – 69 C

50 - 59 D

0 – 49 F

Make-Ups:

Students with excused absences (*i.e. a Physician's notarized period of absence that include the day of the exam*) may take a **make-up version** of a Sectional Exam or have the Final Comprehensive Exam valued at 45 % of h/her final grade.

There is no Make-up for the Final Comprehensive Exam and a student is only allowed to make-up one Sectional Exam for the semester.

There is no opportunity to make-up a Lab Exam. A student with an excused absence (see above) from a Lab Exam may opt to have the Cumulative Lab Exam valued at 10 % of h/her final lab grade.

Course Outline:

- 1) The Blood and Immunity (Chapters 19 & 22)
- 2) The Heart (Chapter 20)
- 3) Blood Vessels & Hemodynamics (Chapter 21)

EXAMINATION I: February 9, 2011

- 4) The Digestive System, Metabolism & Nutrition (Chapters 24 & 25)

5) The Respiratory System (Chapter 23)

EXAMINATION II: March 9, 2011

6) The Kidneys and Body Fluids (Chapters 26 & 27)

7) The Endocrine System (Chapter 18)

EXAMINATION III: April 11, 2011

8) Reproduction and Human Development (Chapters 28 & 29)

FINAL EXAM: May 4, 2011

Lab Schedule:

Week of:

January 10 No Lab
January 17 No Lab (MLK Holiday)
January 24 Blood Physiology
January 31 Heart Physiology
February 7 Heart Anatomy
February 14 Fetal Pig Blood Vessels
February 21 Fetal Pig Blood Vessels (cont'd)
February 28 Fetal Pig Blood Vessels (cont'd) & lab exam review
March 7 Lab Exam I
March 14 No Lab (Spring Break)
March 21 Fetal Pig Digestive System
March 28 Spirometry & Fetal Pig Respiratory System
April 4 Lab Exam II
April 11 Fetal Pig Urinary & Reproductive Systems
April 18 Review for Cumulative Lab Exam
April 25 Lab Exam III

Attendance:

Students are expected to be present at all lecture sessions.
There is no opportunity to make-up Lab sessions or Lab exams. Lab attendance is mandatory.