

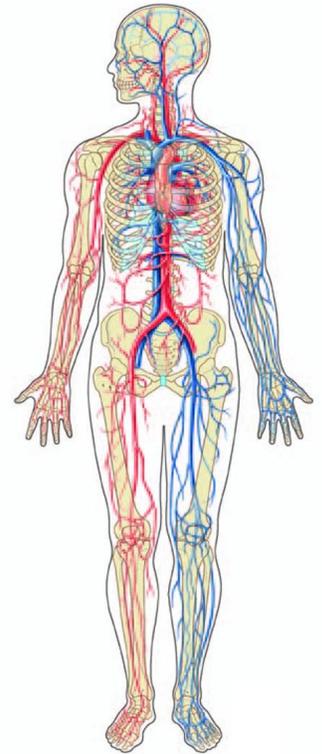
IMPERIAL VALLEY COLLEGE

BIOL 202 (10015)

Human Anatomy & Physiology II

Fall 2012

4 Credits



Instructor: Ms. Susan Moss, Associate Professor of Biology

Office: 2779

Office Phone Number: 760-355-5760

Email: susan.moss@imperial.edu

Office Hours: Monday & Wednesday 1:30 – 2:00 pm
Tuesday & Thursday 10:00 – 11:30 am

Lecture: Monday & Wednesday 9:10 – 10:05 room 2726

Independent Study Time 10:05 – 10:30

Lab: Monday & Wednesday 10:30 – 1:25 room 2736

Required Textbooks:

Anatomy & Physiology: The Unity of Form and Function, Saladin, 6th edition

Human Anatomy & Physiology Laboratory Manual, Marieb & Mitchell, 10th edition (Update)

Recommended Materials: blank index cards (lots!), colored pencils, highlighters, camera, stapler

Prerequisite: Completion of BIOL 200 with a grade of “C” or better, or MATH 090 with a grade of “C” or better AND current California LVN or RN license.

General Class Policies

- Attendance and punctuality are required. I start on time and expect you to be seated by the time class starts. If tardiness becomes a problem, I will start locking out late arrivers.
 - ❖ If you miss 6 instructional periods (lectures or labs), you will be dropped from the course.
NOTE: Each lecture & lab is considered a separate instructional period.
 - ❖ Every 2 times you are late will count as 1 absence.
 - ❖ If you exceed the maximum number of allowed absences after the drop deadline, you will receive 0/30 attendance/participation points.
 - ❖ There are no “excused” absences. Every absence counts against you.
- Lecture outlines will be emailed to you, and you must bring those to class.
- Only **English** should be spoken when lecture or lab is in session.
- No talking during class lectures. Disruptive behavior will not be tolerated and may result in your being dropped from the course.
- No sleeping in class.
- Electronic devices such as cell phones and iPods must remain **OFF** during class. Laptops may be used for note-taking and voice recorders may be used to record lectures.
- No open food or drink containers are allowed in the classroom or lab. Snacks should be eaten outside the building during breaks.

Course Description

The interrelationship of structure and function of each body system will be presented in two semesters. The second semester will focus on these systems: endocrine, cardiovascular, respiratory, lymphatic/immune, digestive, urinary, & reproductive.

Course Objectives

- The student will describe the structure and function of the endocrine system, cardiovascular system, lymphatic system, respiratory system, urinary system, digestive system, and reproductive systems.
- The student will discuss human heredity and the developmental stages from fertilization to birth.
- The student will discuss changes within the human organism due to the aging process.

Student Learning Outcomes

- Display critical thought related to key concepts in human anatomy and physiology using written forms of expression and examination.
- Display effective communication skills related to topics in human anatomy & physiology.
- Display ability to read, comprehend, summarize and orally present research articles related to human anatomy & physiology.
- Display an understanding of global human health issues.

IVC Withdrawal Policy

- ▶ The deadline for dropping a course without it appearing on your transcript is Sept. 3rd.
- ▶ The deadline for dropping the course is November 10th.

Exams

Six exams will be given. All exams are based on class notes/activities and will include essay-type questions as well as multiple-choice, fill-in, true/false and matching questions. There will also be diagrams to label. Exams will take place during the LAB period to allow sufficient time.

Make-up Exam Policy:

To be eligible for a make-up exam, you must notify me (by phone or email) **before the start of the exam** as to why you cannot be present for the exam. Make-up exams must be taken within one week of the scheduled exam day.

Quizzes

Throughout the semester, quizzes will be given at the beginning of the lecture period. The quizzes will mainly cover concepts in the text that are not covered in lecture. The quizzes will be timed (10 min.). If you arrive late, you will not be given extra time. Your lowest quiz score will be dropped.

There are NO make-up quizzes given for any reason.

Extra Credit

The only opportunities for extra credit points will be in the form of **bonus questions** on exams and practicals.

Laboratory – Policy & Procedures

- You will be responsible for conducting yourself properly and safely during lab. This includes: handling materials and equipment carefully, following instructions, wearing safety glasses and keeping hair tied back when doing experiments & dissections, putting items back where you found them, and cleaning your area before leaving.
- Lab work will consist of material taken from the laboratory manual and any additional information assigned. For some labs, you will be required to turn in a lab report. Only original pages from the lab manual will be accepted.
- For computer activities, no more than 2 people may work together.
- For all other activities, no more than 3 people may work together.
- All group members must participate in **all** activities.
- Everyone in a group will receive the same grade.
- Each group member must write his/her **own** name on lab reports.

Missed labs cannot be made up.

- There will be three LAB PRACTICAL exams. Most practical questions are recall-type questions and spelling counts (every 2 spelling errors → lose 1 pt). No make-up lab practicals will be given. **If** you notify me in advance that you have to miss a practical **and** you have a legitimate excuse with supporting documentation, I will prorate the first missed practical. Any other missed practicals will receive a zero.

Oral Presentation – Global Health Issue

Choose a presentation topic that focuses on a problem/disease/disorder that relates to material covered in this course. It can be a vector-borne disease, genetic disorder, injury-related problem, or lifestyle-related problem.

You will be required to independently research and present your topic on your assigned date. Presentations should last **6-7 minutes** and a PowerPoint slide show is required. Your slide show should enhance your presentation... **not** be a script.

Important: Your topic must be pre-approved by October 8th, or you forfeit the assignment.

ADA Statement

Any student with a documented disability who may need educational accommodations should notify the Disabled Student Program & Services (DSP&S) office (760-355-6312, room 2117, Health Sciences Bldg) as soon as possible.

“In the News” – Current Research in Human Biology

Once during the semester, you will be required to find a news article related to a particular aspect of human biology. The article can be from a science magazine, newspaper or an internet news source. It must be **current** (less than 2 months old) and must be a **news report** about recent research in human biology. You will turn in the article (or copy) along with a summary. **Your summary must be typed, double-spaced and stapled to the article.** In addition, you will present a brief summary of the news story to the class.

Topic 1: Endocrine

Topic 2: Cardiovascular or Respiratory

Topic 3: Lymphatic or Immune

Topic 4: Digestive or Nutrition

Topic 5: Urinary or Reproduction

Topic 6: Genetics or Heredity

Some sources of news articles...

http://www.sciencedaily.com/news/health_medicine/

<http://www.cnn.com/HEALTH/>

<http://www.nytimes.com/pages/health/index.html>

<http://www.webmd.com/news/default.htm>

Grading

Your grade will be based on the total possible points **YOU** have earned (i.e. there will be no curve). Points will be earned through lecture exams, lab practicals, quizzes, lab reports, assignments, in-class activities, and class participation. The grading scale will be:

A ≥ 90 %

B = 80-89 %

C = 70-79 %

D = 60-69 %

F ≤ 59 %

- ◆ Exams: 125 pts. each
- ◆ Lab Practical: 100 pts each
- ◆ Chapter Quizzes: 20 pts each
- ◆ Lab Reports and class activities: 10-20 pts each
- ◆ News article & presentation: 15 pts
- ◆ Oral presentation: 25 pts
- ◆ Attendance, Participation, Class Conduct, Misc.: 30 pts.

“Participation” means asking questions, answering questions, contributing thoughts and opinions.

“Class Conduct” means following class policies & procedures.

IMPORTANT: ➤ If your overall combined exam & practical average is below 60%, you will automatically receive an **“F”** for the course.
 ➤ If your overall combined exam & practical average is 60 – 69%, you will automatically receive a **“D”** for the course.

Schedule

IMPORTANT: *Schedule is tentative and subject to change.*

LECTURE @ 9:10

LAB @ 10:30

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|-------|---|--|
| 8/20 | Introduction | Review key concepts |
| 8/22 | Ch 17 – Endocrine System | Diffusion; Surface to volume ratio |
| 8/27 | Ch 17 – Endocrine System; Q1 | Endocrine – PhysioEx Experiments |
| 8/29 | Ch 18 – Blood; News Articles (Topic 1) | Blood and blood typing |
| 9/3 | NO SCHOOL | ----- |
| 9/5 | Q&A Review | EXAM 1 (Key Concepts, Endocrine) |
| 9/10 | Ch 19 & 20 – Heart & Blood Vessels | Open Lab 10:15 – 11:00 LAB PRACTICAL 1 @ 12:45 diffusion, S/V, endocrine PhysioEx, blood lab |
| 9/12 | Ch 19 & 20 – Heart & Blood Vessels; Q2 | Heart |
| 9/17 | Ch 22 – Respiratory System; News Articles (Topic 2) | Respiratory; Blood Vessels |
| 9/19 | Q&A Review | EXAM 2 (Cardiovascular) |
| 9/24 | Ch 22 – Respiratory System; Q3 | Interactive Phys CD – Respiratory System |
| 9/26 | Ch 21 – Lymphatic System & Defense | Open Lab 10:15 – 11:00 LAB PRACTICAL 2 @ 12:45 heart, blood vessels |
| 10/1 | Ch 21 – Lymphatic System & Defense; News Articles (Topic 3) | Nutrition (Ch 26) Internet Assignment |
| 10/3 | Ch 21 – Lymphatic System & Defense | Interactive Phys CD – Immune System |
| 10/8 | Ch 25 – Digestive System; Presentation topic due | Digestion – PhysioEx Enzyme Experiments |
| 10/10 | Q&A Review | EXAM 3 (Lymphatic, Immune, Respiratory) |

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| 10/15 | Ch 25 – Digestive System; News Articles (Topic 4) | Interactive Phys CD – Digestive System |
| 10/17 | Ch 26 – Cellular Respiration | Open Lab 10:15 – 11:00 LAB PRACTICAL 3 @ 12:45 Respiratory, digestive, enzyme PhysioEx |
| 10/22 | Ch 23 – Urinary System; Q4 | CADAVER OBSERVATION |
| 10/24 | Ch 23 – Urinary System; News Articles (Topic 5) | Interactive Phys CD – Urinary System |
| 10/29 | Q&A Review | EXAM 4 (Digestive, Nutrition, Cellular Respiration) |
| 10/31 | Ch 24 – Water, electrolyte & Acid-Base Balance | PRESENTATIONS – Group 1 |
| 11/5 | Ch 27 & 28 – Reproductive Systems; Q5 | PRESENTATIONS – Group 2 |
| 11/7 | Ch 27 & 28 – Reproductive Systems | Fetal Pig Dissection |
| 11/12 | NO SCHOOL | ----- |
| 11/14 | Q&A Review | EXAM 5 (Urinary System, Water, Electrolyte & Acid-Base Balance) |
| 11/19 | Ch 29 – Pregnancy & Development; News Articles (Topic 6) | Fetal Pig Dissection |
| 11/21 | Ch 4 – Genetics & Heredity; Q6 | Heredity |
| 11/26 | “Miracle of Life” video | Fetal Pig Review and QUIZ |
| 11/28 | Final Prep for Debate | Debate - Human Health: Controversial Topics |
| 12/3 | Q&A Review | EXAM 6 (Reproductive Systems, Pregnancy & Development, Genetics & Heredity) |

Keep track of your grades...

| DESCRIPTION | MY SCORE | POINT VALUE |
|-----------------------------|----------|-------------|
| EXAM 1 | | 125 |
| EXAM 2 | | 125 |
| EXAM 3 | | 125 |
| EXAM 4 | | 125 |
| EXAM 5 | | 125 |
| EXAM 6 | | 125 |
| LAB PRACTICAL 1 | | 100 |
| LAB PRACTICAL 2 | | 100 |
| LAB PRACTICAL 3 | | 100 |
| FETAL PIG QUIZ | | 30 |
| ORAL PRESENTATION | | 25 |
| NEWS ARTICLE | | 15 |
| CONTROVERSIAL TOPICS DEBATE | | 20 |
| QUIZ 1 | | 20 |
| QUIZ 2 | | 20 |
| QUIZ 3 | | 20 |
| QUIZ 4 | | 20 |
| QUIZ 5 | | 20 |
| QUIZ 6 | | 20 |
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