

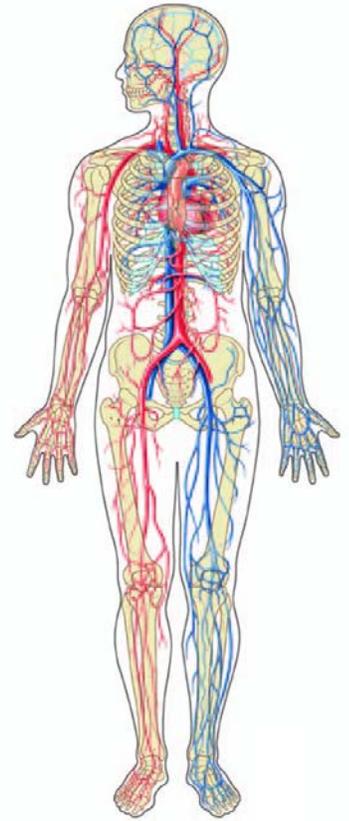
IMPERIAL VALLEY COLLEGE

BIOL 202 (20345)

Human Anatomy & Physiology II

Spring 2013

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: Tuesday & Thursday 1:30 – 2:25 room 2726
Lab: Tuesday & Thursday 2:35 – 5:45 room 2736

Required:

► Textbooks (same as BIOL 200):

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

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

► Safety glasses

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

General Class Policies

- Attendance and punctuality are required. I start on time and expect you to be seated by the time class starts and I begin taking roll. If tardiness becomes a problem, I will start locking out late arrivers.
- Disruptive, inappropriate, or offensive behavior of any kind will not be tolerated and may result in your being dropped from the course.
- No sleeping in class. You will be required to leave the room.
- Electronic devices must remain **OFF** during lecture and lab. Laptops may be used for note-taking and voice recorders may be used to record lectures.
- Only **English** may be spoken when lecture or lab is in session.
- No open food or drink containers are allowed in the classroom or lab.
- Safety glasses must be worn and long hair tied back when experiments and dissections are done in lab.

Attendance Policy

- Each lecture & lab is considered a **separate** instructional period.
- Each missed instructional period earns you **2** strikes.
- Each time you are late earns you **1** strike.
- If you reach **12** strikes, you will be dropped from the course.
- If you reach **12** strikes after the drop deadline, you will automatically receive 0/30 attendance/participation points.
- There are no “excused” absences. **Every absence counts against you.**

Blackboard

PowerPoint slide shows that are shown in class will be available for viewing through your Blackboard account. <https://imperial.blackboard.com/>

Cheating Policy

Evidence of cheating will result in a zero grade for that quiz/test/practical and possible disciplinary action as well.

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 January 27th.
- ▶ The deadline for dropping the course is April 13th.

Exams

Six lecture exams will be given. All exams are based on class notes/activities and will include multiple-choice, fill-in, true/false, short answer, and matching questions. There will also be diagrams to label. Labeling must be done in black pen. Exams will take place during the lab period, and you will have a maximum of **2 hours** to complete them.

Extra Credit

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

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.

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.
- ONE lab report is turned in per group.
- 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. 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.

Spelling

Spelling of structures and terms counts on ALL exams, quizzes and practicals. The penalty for each spelling error is ½ point. Scores that end up in the middle of two numbers will be rounded **down**. Example: a point total of 85.5 pts will be recorded as an 85.

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 to the class. Presentations should last **6-7 minutes** and a PowerPoint slide show is required.

Important: Your topic must be pre-approved by March 5th, or you forfeit the assignment.

“In the News” – Current Research in Human Biology

Once during the semester, you will be required to find a news article related to this course. 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.

Good source of news articles... http://www.sciencedaily.com/news/health_medicine/

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.

Gifts

Please note that I am not able to accept gifts of any kind.

Grading

Your grade will be based on the total possible points **YOU** have earned (i.e. there will be no curve). The grading scale will be:

- A ≥ 90 %
- B = 80-89 %
- C = 70-79 %
- D = 60-69 %
- F ≤ 59 %

- ◆ Exams: 60 – 150 pts. each
- ◆ Lab Practicals: 100 pts each
- ◆ Quizzes: 20 pts each
- ◆ Lab reports and class activities: 10-20 pts each
- ◆ News article & presentation: 15 pts
- ◆ Oral presentation: 30 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.

Schedule

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

LECTURE @ 1:30

LAB @ 3:00

1/15	Introduction	Review key concepts
1/17	Ch 17 – Endocrine System	Diffusion; Surface to volume ratio
1/22	Ch 17 – Endocrine System; Q1	Endocrine – PhysioEx Experiments
1/24	Ch 18 – Blood; News Articles 1	Blood and blood typing
1/29	Study Time & Office Visits	EXAM 1 (Key Concepts, Endocrine)
1/31	Ch 19 & 20 – Heart & Blood Vessels	Blood Vessels
2/5	Open Lab	LAB PRACTICAL 1 @ 4:30 diffusion, S/V, endocrine PhysioEx, blood lab
2/7	Ch 19 & 20 – Heart & Vessels; Q2	Heart
2/12	Ch 22 – Respiratory System; News Articles 2	Respiratory
2/14	Study Time & Office Visits	EXAM 2 (Cardiovascular)
2/19	Ch 22 – Respiratory System	Interactive Phys CD – Respiratory System
2/21	BLOOD VESSEL ID TEST (in lab room)	Open Lab 3:00 – 3:40 LAB PRACTICAL 2 @ 5:00 heart, respiratory
2/26	Ch 21 – Lymphatic System & Defense; News Articles 3	Nutrition (Ch 26) Internet Assignment <i>bring textbook and laptop(?)</i>
2/28	Ch 21 – Lymphatic System & Defense; Q3	Interactive Phys CD – Immune System
3/5	Ch 25 – Digestive System; Presentation topic due	Digestion – PhysioEx Enzyme Experiments
3/7	Study Time & Office Visits	EXAM 3 (Lymphatic, Defense, Immune, Respiratory)

3/12	Ch 25 – Digestive System; Ch 26 – Cellular Respiration; News Articles 4	Interactive Phys CD – Digestive System
3/14	Open Lab	LAB PRACTICAL 3 @ 4:30 Digestive, enzyme PhysioEx

3/19	Ch 23 – Urinary System; Q4	CADAVER OBSERVATION
3/21	Ch 23 – Urinary System; News Articles 5	Interactive Phys CD – Urinary System

3/26	Study Time & Office Visits	EXAM 4 (Digestive, Nutrition, Cellular Respiration)
3/28	Ch 24 – Water, electrolyte & Acid-Base Balance	Interactive Phys CD -- Water, electrolyte & Acid-Base Balance

SPRING BREAK



4/9	Ch 27 & 28 – Reproductive Systems; Q5	PRESENTATIONS
4/11	Ch 27 & 28 – Reproductive Systems	PRESENTATIONS

4/16	Study Time & Office Visits	EXAM 5 (Urinary System, Water, Electrolyte & Acid-Base Balance)
4/18	Ch 29 – Pregnancy & Development; News Articles 6	Fetal Pig Dissection

4/23	Ch 29 – Pregnancy & Development; Q6	Fetal Pig Dissection
4/25	Ch 4 – Genetics & Heredity	Heredity

4/30	“Miracle of Life” video	Fetal Pig Review and QUIZ
5/2	Final Prep for Debate	Debate - Human Health: Controversial Topics

5/7	Study Time & Office Visits	EXAM 6A – written (Reproductive Systems, Pregnancy & Development, Genetics & Heredity)
5/9	Study Time & Office Visits	EXAM 6B – diagrams

Keep track of your grades...

DESCRIPTION	MY SCORE	POINT VALUE
EXAM 1		150
EXAM 2		150
EXAM 3		150
EXAM 4		150
EXAM 5		150
EXAM 6A		130
EXAM 6B		50
LAB PRACTICAL 1		100
LAB PRACTICAL 2		100
LAB PRACTICAL 3		100
BLOOD VESSEL EXAM		60
FETAL PIG QUIZ		30
ORAL PRESENTATION		30
NEWS ARTICLE		15
DEBATE		20
QUIZ 1		20
QUIZ 2		20
QUIZ 3		20
QUIZ 4		20
QUIZ 5		20
QUIZ 6		20

