



IMPERIAL VALLEY COLLEGE

BIOL 204 PM (10222)

Human Anatomy

Fall 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: Wednesday & Friday 1:30 – 2:00
Tuesday & Thursday 10:00 – 11:30

Lecture: Wednesday & Friday 2:35 – 3:30 room 2727
Lab: Wednesday & Friday 3:40 – 6:50 room 2736

Required:

► **Textbooks**

Human Anatomy, Ken Saladin, 4th edition, 2013

Customized Version: *BIOL 204 Human Anatomy Lab Manual*

► **Safety glasses**

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

Prerequisite: Completion of MATH 090 and BIOL 100 or BIOL 122 or BIOL 180 or BIOL 182, with grades 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 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.
- This course is conducted solely in English. Only English may be spoken when lecture or lab is in session.
- No sleeping in class. You will be required to leave the room.
- Only voice recorders may be used to record lectures. Videotaping is never allowed.
- If your cell phone starts ringing, **10** points will be deducted from your final point total.
- No open food or drink containers are allowed in the classroom or lab.
- Safety glasses must be worn and long hair tied back when 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.
- There are no “excused” absences. **Every absence counts against you.**

Blackboard (<https://imperial.blackboard.com/>)

PowerPoint slide shows will be available for viewing through your Blackboard account. NOTE: The slides shows posted on BB will not be identical to what's shown in class.

Exam scores will also be posted, so that you may keep track of your exam average.

Cheating Policy

Evidence of cheating will result in a zero grade for that exam or practical and possible disciplinary action as well. Please notify me if you see evidence of cheating.

Course Description: Lecture and laboratory course designed to study the fundamental principles of human body structure at the cellular, tissue, organ and systems level of organization.

Course Objectives

The student will be able to...

- characterize the levels of structural organization in the human body and to describe anatomical terms.
- define a cell and explain the structure and functions of its principle parts.
- identify and discuss the origin, classification, structure, location and function of four major types of tissues.
- describe the structural and functional characteristics of the various layers of the skin.
- describe the gross features of a long bone and the process of bone formation.
- identify the bones of the skeleton and their important surface markings.
- describe the structural and functional classification of the joints.
- describe the structure and components of muscle tissue.
- identify the principal skeletal muscles of the body and describe their movements.
- describe characteristics of the blood plasma and the formed elements.
- describe the general flow of blood circulation and the structural and functional features of the heart.
- contrast the structure and functions of arteries, capillaries, and veins.
- trace lymphatic circulation and to describe the structure and functions of lymphatic tissues and organs.
- describe the organization of the nervous system and structure of neurons and neuroglia.
- describe the anatomy of the spinal cord, the reflexes, spinal nerves and nerve plexuses.
- identify the principal parts of the brain and cranial nerves.
- describe the components of sensory and motor pathways.
- identify the structures associated olfaction, taste, vision, hearing and equilibrium.
- compare the structural and functional differences between the somatic and autonomic nervous systems.
- describe the structural divisions, location, histology of the major endocrine glands of the body.
- describe the anatomy of the organs of the respiratory system and the mechanics of pulmonary ventilation.
- identify and describe the structure and functions of the organs associated with digestion.
- identify the external and internal anatomical features of the kidney.
- identify and describe the structure, histology, and functions of the male and female reproductive systems.
- describe the major events that occur during pregnancy.

Student Learning Outcomes

- Display critical thought related to topics in human anatomy using written forms of expression and examination.
- Display knowledge of anatomy and dissection competency using cat specimens as subjects.
- Display critical thought related to topics in human anatomy as it applies to a global perspective.
- Demonstrate competency in communicating information related to the anatomy of the heart.

IVC Withdrawal Policy

- The deadline for dropping a course without it appearing on your transcript is September 2nd.
- The deadline for dropping the course with a "W" is November 9th.

Exams

Most exams will include a **practical part** and a **written part**. Questions on both will be based on lecture notes and lab activities. Written tests will include multiple-choice, fill-in, T/F, matching and short answer questions. Tests may also include diagrams to label. Most practical questions will be recall-type questions.

NO Make-up Exams Will Be Given

If you notify me in advance that you have to miss an exam **and** you have a legitimate excuse with supporting documentation, I will prorate the first missed exam. Any other missed exams will receive a zero.

EXAM-TAKING RULES:

- ◆ Long hair must be tied back.
- ◆ No hats or hoods may be worn.
- ◆ Hands must remain on top of the table.
- ◆ Test pages must be folded under when you turn a page.
- ◆ For matching, **capital** letters must be used.
- ◆ Black pen must be used for labeling.

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 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.

Spelling

Spelling of structures and terms counts on ALL exams. The penalty for each spelling error is ½ point. Scores that end up in the middle of two numbers due to spelling errors will be rounded **down**.

Oral Presentation – Body Part Replacements

You will be required to independently research and present information related to the replacement of body parts. Each person's presentation should last **6-7 minutes** and a PowerPoint slide show is required.

“In the News” – Current Research in Human Anatomy

Once during the semester, you will be required to find a **news** article related to research in human anatomy. 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 discoveries. You will turn in the article (or copy) stapled to your summary. **The summary must be typed and double-spaced.** In addition, you will present a brief summary of the news story to the class.

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

Extra Credit

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

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

Final grades are calculated using a simple point system. Your grade will be based on the total points **you** earn divided by the total points possible. The grading scale will be:

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

- ◆ Exams: 100-130 pts. each
- ◆ Lab assignments: 10-15 pts each
- ◆ Oral presentation: 30 pts
- ◆ Participation, class conduct, misc.: 20 pts.

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

“Class Conduct” means following class policies & procedures.

IMPORTANT: ➤ If your exam average ends up below 60%, you will automatically receive an **“F”** for the course.

➤ If your exam average ends up being between 60-69%, you will automatically receive a **“D”** for the course.

Schedule



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








Safety glasses required.

LECTURE @ 2:35

LAB @ 4:00

8/21	Introduction	Language of Anatomy, Word Roots, Grammar
8/23	Ch 1 – Intro to Anatomy	Metric system review
8/28	Ch 2 – Cells	Anatomy Terms, Grammar & Word Root Test: 4:30
8/30	Ch 2 – Cells	Cells Cell Cycle & Meiosis
9/4	Ch 3 – Tissues; News Articles #1	Bones
9/6	Ch 3 – Tissues	Tissues
9/11	EXAM: Intro to anatomy, metric, cells	Written: 2:35 – 3:35 Open Lab: 3:40 – 4:40 Practical: 6:00
9/13	Ch 5 – Integumentary System; News Articles #2	Integument; Muscle ID; bone review
9/18	EXAM: Bone ID	Open Lab: 2:35 – 4:00 Practical: 6:00
9/20	Ch 6-9 – Skeletal tissue & Joints	Skeletal Tissue & Joints; Tissue Review
9/25	EXAM: Tissues	Written: 2:35 – 3:35 Open Lab: 3:40 – 4:40 Practical: 6:00
9/27	Ch 10-12 – Muscular System	PRESENTATIONS (Groups 1-3)
10/2	EXAM: Integument, bone tissue, joints	Written: 2:35 – 3:35 Open Lab: 3:40 – 4:40 Practical: 6:00
10/4	Ch 19-21 – Cardiovascular System; News Articles #3	PRESENTATIONS (Groups 4-6)
10/9	Ch 19-21 – Cardiovascular System	EXAM: Muscular System Starts at 4:45
10/11	Ch 22 – Lymphatic System Ch 13-16 – Nervous System	Cardiovascular 
10/16	Nervous System cont.	Nervous System 

10/18	EXAM: Cardiovascular & Lymphatic	Written: 2:35 – 3:35 Open Lab: 3:40 – 4:40 Practical: 6:00
10/23	Ch 17 – Senses	Senses 
10/25	Ch 18 – Endocrine System; News Articles #4	Endocrine system; Senses
10/30	Ch 23 – Respiratory System	Respiratory System
11/1	EXAM: Nervous System & Senses	Written: 2:35 – 3:35 Open Lab: 3:40 – 4:40 Practical: 6:00
11/6	Ch 24 – Digestive System; News Articles #5	Digestive System
11/8	EXAM: Endocrine & Respiratory Systems	Written: 2:35 – 3:35 Open Lab: 3:40 – 4:40 Practical: 6:00
11/13	Ch 25 – Urinary System; News Articles #6	CADAVER OBSERVATION & QUIZ
11/15	Ch 26 – Reproductive Systems Ch 4 – Pregnancy & Development	Urinary & Reproductive Systems
11/20	CAT dissection 
11/22	EXAM: Digestive & Urinary Systems	Written: 2:35 – 3:35 Open Lab: 3:40 – 4:40 Practical: 6:00
11/27	CAT dissection and QUIZ 
11/29	 NO SCHOOL	
12/4	EXAM: Reproductive Systems & Development	Written: 2:35 – 3:35 Open Lab: 3:40 – 4:40 Practical: 6:00

Keep track of your grades...

DESCRIPTION	MY SCORE	POINT VALUE
8/28 EXAM: Anatomical Language		100
9/11 EXAM: Intro, Cells, Metric		130
9/18 EXAM: Bone ID		100
9/25 EXAM: Tissues		130
10/2 EXAM: Integ., Bone Tissue, Joints		130
10/9 EXAM: Muscles		130
10/18 EXAM: Cardio, Lymphatic		130
11/1 EXAM: Nervous, Senses		130
11/8 EXAM: Endocrine, Resp.		130
11/22 EXAM: Digestive, Urinary		130
12/4 EXAM: Reproductive, Development		130
11/27 CAT QUIZ		25
NEWS ARTICLE		15
PRESENTATION		30
CADAVER QUIZ		15
DESCRIPTION	MY SCORE	POINT VALUE

<i>When I was absent...</i>	<i>When I was late...</i>