

# ABRIDGED

BIOL 202 AM (20870)

## Human Anatomy & Physiology 2

Spring 2015 4 Credits

**Instructor: Ms. Susan Moss**, Associate Professor of Biology

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**Office Hours:**

Tuesday & Thursday 11:45 – 12:45

Wednesday & Friday 1:30 – 2:30

**Lecture: Wednesday & Friday 9:10 – 10:05 room 2733**

**Lab: Wednesday & Friday 10:35 – 1:25 room 2736**

### Course Description

Part two of a two-semester study of the structure and function of the human organism, from the molecular to the gross level. This course may require the use of a human cadaver for observation and/or dissection.

### Prerequisites

Completion of BIOL 200 with a grade of C or better, or MATH 90 or 91 with a grade of C or better and current California LVN license.

### Textbooks & Other Resources

**Required:**

► **Textbooks (same as BIOL 200):**

*Anatomy & Physiology: The Unity of Form and Function*, Saladin, 6<sup>th</sup> or 7<sup>th</sup> edition

*Human Anatomy & Physiology Laboratory Manual*, Marieb & Mitchell, 11<sup>th</sup> edition (Pig Version)

► **Safety glasses**

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

### Attendance Policy

- Each lecture & lab is considered a **separate** instructional period.
- Each missed instructional period earns you **1** strike.
- If you reach **8** strikes, you will be dropped from the course.

- Only absences attributed to the representation of the college at officially approved events (e.g. conferences, contests, field trips) will be counted as “excused” absences. All other absences count against you.

### Classroom Rules and Etiquette

- 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, disrespectful, inappropriate, or offensive behavior of any kind will not be tolerated and may result in your being dropped from the course.
- As per IVC policy, this course is conducted solely in English. Only English may be spoken when lecture or lab is in session.
- Only voice recorders may be used to record lectures. Videotaping is never allowed.
- During class, if your cell phone starts ringing or you use it for personal reasons like texting, **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 experiments or dissections are done in lab.
- Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

### Laboratory – Policies & 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, not making any marks on the tables, and cleaning your area before leaving.
- Lab work will consist of material taken from the Laboratory Manual and any additional worksheets assigned. Only original pages from the lab manual will be accepted and pages must be stapled in the correct order.
- 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 worksheet is turned in per group.
- Everyone in a group will receive the same grade.
- Any group member who leaves before the assignment is completed and turned in will receive a **zero** grade.
- Each group member must write his/her **own** name on lab worksheets.

### Oral Presentation – Global Health Issue

Choose a presentation topic that focuses on a human problem/disease/disorder that interests you. It can be a viral, bacterial or 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 before 7:00am on March 27<sup>th</sup> or you forfeit the assignment.**

### News Article Assignment – Current Research in A&P

Once during the semester, you will be required to find a **news** article related to research in 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 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...*      [www.sciencedaily.com](http://www.sciencedaily.com)

### EXAMS

Most exams will include a **practical part** and a **written part**. Questions on both will be based on lecture notes, structure lists, 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 & labeling, **capital** letters must be used.
- ◆ Black pen must be used for labeling.

#### Spelling

You do not get full credit for knowing a structure if you cannot spell it correctly. Thus, spelling of structures and terms counts on ALL exams and practicals. Correct spelling also means writing your letters clearly and correctly. The penalty for each spelling error is ½ point.

### Grade Calculation

Test scores that end up in the middle of two numbers will be rounded **down**. Final grades are calculated using a simple point system. If your test/practical average is  $\geq 70.0\%$ , your grade will be based on the total points you earn divided by the total points possible. The grading scale will be:

A  $\geq 90\%$       B = 80-89 %      C = 70-79 %      D = 60-69 %      F  $\leq 59\%$

- ◆ Exams:  $\leq 210$  pts. each
- ◆ Lab assignments: 10-15 pts each

- ◆ Oral presentation: 25 pts
- ◆ Participation, misc.: 30 pts.

**“Participation”** means asking questions, contributing thoughts and opinions. In other words, be an **active** member of the class! You must earn these points!

**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.

*If you can't pass the exams, you can't pass the class.*

### Tentative Schedule

(subject to change without notice)



= Safety glasses required

|      | <b>LECTURE</b> <b>9:10 – 10:05</b>                    | <b>LAB</b> <b>10:35 – 1:25</b>   |
|------|---|--|
| 2/18 | Introduction  | Review key concepts  |
| 2/20 | Ch 17 – Endocrine System                              | Diffusion; Surface to volume ratio  |
| 2/25 | Ch 17 – Endocrine System; News Articles #1            | Endocrine – PhysioEx Experiments   |
| 2/27 | Ch 18 – Blood   | Blood and blood typing   |
| 3/4  | <b>EXAM 1</b><br>Introductory material, Endocrine     | Written: 9:10 - 10:40<br>Practical: 12:30  |
| 3/6  | Ch 19 – Heart   | Blood Vessels  |
| 3/11 | Ch 20 – Blood vessels; News Articles #2               | Heart                               |
| 3/13 | Ch 22 – Respiratory System                            | <b>EXAM 2</b><br><b>BLOOD VESSEL ID TEST @ 11:00</b>   |
| 3/18 | <b>EXAM 3</b><br>Cardiovascular System                | Written: 9:10 - 10:40<br>Practical: 12:30  |
| 3/20 | Ch 21 – Lymphatic System & Defenses; News Articles #3 | Respiratory  |

|      |  |   |
|------|--|---|
| 3/25 | Ch 21 – Lymphatic System & Defenses                          | Interactive Phys CD – Immune System     |
| 3/27 | Ch 25 – Digestive System;<br>Topic Approval Deadline 7:00 am | Digestion – PhysioEx Enzyme Experiments |

|     |  |   |
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| 4/1 | <b>EXAM 4</b><br><b>Respiratory</b>                    | Written: 9:10 - 10:40<br>Practical: 12:30 |
| 4/3 | Ch 25 – Digestive System; Ch 26 – Cellular Respiration | Nutrition Internet Assignment             |

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|---|---------------------|--|
|  | <b>SPRING BREAK</b> |  |
|---|---------------------|--|

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|------|---|---|
| 4/15 | <b>EXAM 5</b><br><b>Lymphatic System &amp; Defenses</b> | Written: 9:10 - 10:40<br>Practical: 12:30 |
| 4/17 | Ch 23 – Urinary System; News Articles #4                | Interactive Phys CD – Digestive System    |

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|------|--|---|
| 4/22 | <b>EXAM 6</b><br><b>Digestive System, Cellular Respiration &amp; Nutrition</b> | Written: 9:10 - 10:40<br>Practical: 12:30 |
| 4/24 | Ch 23 – Urinary System; News Articles #5                                       | Interactive Phys CD – Urinary System      |

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|------|--|---|
| 4/29 | Ch 24 – Water, Electrolyte & Acid-Base Balance | Interactive Phys CD -- Water, Electrolyte & Acid-Base Balance |
| 5/1  | <b>PRESENTATIONS</b>                           | <b>PRESENTATIONS</b>  |

|     |  |   |
|-----|--|---|
| 5/6 | <b>EXAM 7</b><br><b>Urinary System; Water, Electrolyte &amp; Acid-Base Balance</b> | Written: 9:10 - 10:40<br>Practical: 12:30 |
| 5/8 | Ch 27 & 28 – Reproductive Systems  | “Science of Sex Appeal” documentary       |

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| 5/13 | Ch 27 & 28 – Reproductive Systems; News Articles #6 | Reproductive & Development   |
| 5/15 | Ch 29 – Pregnancy & Development                     | Internet research assignment |

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|------|----------------------------|---|
| 5/20 | Ch 4 – Genetics & Heredity | Heredity                                    |
| 5/22 | Debate prep                | Debate: Controversial topics in health care |

|      |   |   |   |
|------|---|---|---|
| 5/27 | Fetal Pig Dissection<br><b>QUIZ 1</b> (muscles)                   | ... cont.                                 |  |
| 5/29 | Fetal Pig Dissection<br><b>QUIZ 2</b>                             | ... cont.                                 |  |
| 6/3  | <i>CADAVER OBSERVATION &amp; QUIZ</i>                             | ..... cont.                               |   |
| 6/5  | <b>EXAM 8</b><br>Genetics & Heredity                              | <b>Written 10:00 – 11:30</b>              |   |
| 6/10 | <b>EXAM 9</b><br>Reproductive Systems, Pregnancy<br>& Development | Written: 9:10 - 10:40<br>Practical: 12:30 |   |