

**ABRIDGED**

**BIOL 202 (10041)**

## *Human Anatomy & Physiology 2*

FALL 2018

4 Credits

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### **Course Description**

Part two of a two-semester study of the structure and function of the human organism and our eleven organ systems.

### **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**(*same as 200*):

► **Textbook**

*Anatomy & Physiology: The Unity of Form and Function*, Saladin, 7<sup>th</sup> or 8<sup>th</sup> edition

► **Lab Manual** (*may NOT rent or use e-version*)

*Human Anatomy & Physiology Laboratory Manual*. Marieb, 12<sup>th</sup> or 13<sup>th</sup> edition (*any version*)

Earlier editions are not acceptable.

**Recommended:** blank index cards (lots!), voice recorder, colored pencils, highlighters, camera for lab

### **Student Learning Outcomes**

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Display critical thought related to key concepts in human anatomy and physiology using written and/or oral forms of expression and examination. (ILO1, ILO2, ILO5)
2. Identify basic anatomy and physiological processes related to the human body. (ILO1 ILO2)

**Classroom Rules and Etiquette**

**(Rules may be added if problems arise.)**

- 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 may start assigning extra homework to 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 should be spoken in lecture and lab.
- Only voice recorders may be used to record lectures. Taking photographs or videotaping is never allowed during lectures. “Smart phones” used as voice recorders must be placed next to me. Forward-facing cameras on laptops must be covered.
- During class, if your cell phone starts ringing, **10points** will be deducted from your final point total.
- I leave some time for questions at the end of lecture periods. Do NOT start packing up until I dismiss class.
- No open food is allowed in the building. Also, no glass or spillabledrink containers are allowed ... on the table OR floor. Such items will be thrown in the trash.

**Course Objectives** <http://imperial.curricunet.com/Report/Outline/988>

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.

**Laboratory – Policies & Procedures**

\*Point penalty for noncompliance!

- 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 lab activities, unless otherwise stated, 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.\*
- Discussion among groups is permitted, but copying another group’s answers is not.\*

**NOTE:** Lab periods are **also** study periods. If you finish a lab assignment early, you are highly encouraged to take advantage of the **full** lab period for reviewing and asking questions.

**EXAMS**

Exam questions will be based on lectures, chapter diagrams, structure lists, and lab activities. Most exams will include a multiple-choice written section and a lab practical. All relevant diagrams in the text and lab manual are fair game on exams.

**NO make-up exams are given.**

If you notify me in advance that you have to miss a scheduled exam **and** you have a legitimate excuse with supporting documentation, I will prorate the first test you miss. After that, missed exams will be zeros.

**EXAM-TAKING RULES:**

- ◆ Long hair must be securely tied back so I can clearly see your face.
- ◆ Test pages must be folded under when you turn a page.
- ◆ No hats or hoods may be worn.
- ◆ Hands must remain on top of the table at ALL times.
- ◆ Effort must be taken to keep your test answers completely private.
- ◆ You may not leave the room while taking a test without a documented medical excuse.
- ◆ The only acceptable abbreviations are ATP and DNA.\*
- ◆ Answers will automatically be marked wrong if they are included with scratched-out answers. So, if you write in pencil, you must erase unwanted answers. If you write in pen, you must have correction tape with you to cover unwanted answers. \*
- ◆ All phones or “smart” devices (phone, watch, bracelet, etc.) must be OFF and stowed.

**\*Point penalty for noncompliance!**

*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. The penalty for each spelling error is 1/2 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: 80-200 pts. each
- ◆ Lab assignments: 10-15 pts each
- ◆ Participation: 30 pts

**“Participation”** means asking questions *in class* and/or contributing thoughts, opinions, stories. In other words, you need to be an **active** member of the class ... not just be present! The quality of this experience depends on that! You must earn these points, so everyone starts at zero.

**IMPORTANT:** ➤ If your exam average ends up below 60%, you will automatically

receive an “F” for the course.

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

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

### Additional Help



PowerPoint slide shows will be available for downloading through your Canvas account. NOTE: The slide shows posted will be abridged versions of what's shown in class. Thus, attendance and note-taking are mandatory for success. Material relevant to a test will be removed on the day of the test. Also posted:

- Exam scores and overall test average
- Structure lists and helpful handouts. **Hard copies of the lists must be brought with you to the appropriate lab.**
- Unlabeled diagrams for labeling practice.

### Tentative Schedule

(subject to change without notice)

|      | <b>LECTURE</b>                                     | <b>LAB/STUDY PERIOD</b>          |
|------|--|----------------------------------|
| 8/13 | Introduction                                       | Introduction                     |
| 8/15 | Intro to A&P 2                                     | Diffusion activities             |
| 8/20 | Ch 17 – Endocrine System                           | Surface area:volume activities   |
| 8/22 | Ch 17 – Endocrine System                           | Endocrine – PhysioEx Experiments |
| 8/27 | <b>EXAM 1<br/>Intro Lecture &amp; Lab Material</b> |                                  |
| 8/29 | Ch 18 – Cardiovascular: Blood                      | Blood & Blood Typing             |
| 9/3  | <b>NO SCHOOL</b>                                   |                                  |
| 9/5  | <b>EXAM 2<br/>Endocrine</b>                        |                                  |
| 9/10 | Ch 19 – Cardiovascular: Heart                      | Heart & Heart Quiz               |

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| 9/12  | Ch 20 – Cardiovascular: Blood vessels                                    | “The Human Pump” doc<br>Interactive Phys CD - Cardiovascular |
| 9/17  | Ch 22 – Respiratory System   | Respiratory  |
| 9/19  | <b>EXAM 3<br/>Cardiovascular System</b>                                  |  |
| 9/24  | Ch 21 – Lymphatic & Defenses   | Respiratory – PhysioEx Experiments                           |
| 9/26  | Ch 21 – Lymphatic & Defenses   | Interactive Phys CD – Immune System                          |
| 10/1  | <b>EXAM 4<br/>Respiratory System</b>                                     |  |
| 10/3  | Ch 25 – Digestive System   | Digestion – PhysioEx Enzyme Experiments                      |
| 10/8  | Ch 25 – Digestive System   | Internet Research: Nutrition                                 |
| 10/10 | <b>EXAM 5<br/>Lymphatic System &amp; Defenses</b>                        |  |
| 10/15 | Ch 26 – Cellular Respiration   | Interactive Phys CD – Digestive System                       |
| 10/17 | Ch 23 – Urinary System   | Urinary System cont.   |
| 10/22 | Ch 24 – Water, Electrolyte & Acid-Base Balance                           | Interactive Phys CD - Urinary                                |
| 10/24 | <b>EXAM 6<br/>Digestive System, Cellular Respiration &amp; Nutrition</b> |  |
| 10/29 | Ch 27 & 28 – Reproductive Systems  | Internet Research: Birth control & STDs                      |
| 10/31 | Ch 27 & 28 – Reproductive Systems  | Reproductive Systems   |
| 11/5  | <b>EXAM 7<br/>Urinary System; Water, Electrolyte</b>                     |  |

|       |   |  |
|-------|---|--|
|       | <b>&amp; Acid-Base Balance</b>  |  |
| 11/7  | Ch 29 – Pregnancy & Development   | “Miracle of Life” doc                      |
| 11/12 | NO SCHOOL   |  |
| 11/14 | Ch 4 – Genetics & Heredity  | Heredity                                   |
| 11/26 | <b>EXAM 8<br/>Reproductive Systems, Pregnancy<br/>&amp; Development</b> |  |
| 11/28 | -----   | <i>Optional</i> open lab for genetics help |
| 12/3  | <b>EXAM 9<br/>Genetics &amp; Heredity</b>                               |  |