**Human Anatomy & Physiology I (Bio 141)**

**Lecture: MW 8:00 – 9:15, AA436**

**Lab: T 8:00 – 10:40, AA491**

**4 credits**

**Spring 2015**

Instructor: Dr. David Fernandez

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Office hours:

Mon 11:00 – 2:30, Wed 11:00 – 12:30, Thu 8:00 – 11:00 & 12:30 – 2:30

\*Please email me to set up an appointment\*

*The purpose of this syllabus is to address relevant administrative concerns and policies. If you have questions of this nature throughout the semester, please consult this syllabus first, before directing these questions to your Professor.*

**Census Date: 1/29/15**

Last day to withdraw with refund

**Withdraw Date: 3/23/15**

Last day to withdraw without a grade penalty (receive a “W”)

**Course Texts (Required)**

Human Anatomy & Physiology by Marieb and Hoehn, 9th Ed.

Laboratory Manual for Anatomy and Physiology by Allen and Harper, Fifth Ed.

**Course Overview**

Human Anatomy & Physiology I will offer students the chance to explore the human body from the molecular level to the systems level. We will be analyzing the chemical, physical, and biological aspects of life, beginning with the cell and its organelles, and proceeding through tissues, organs, and organ systems. We will also be examining relevant diseases associated with specific systems, and their underlying pathologies.

**Pathology Paper**

Each student will write a research paper on a disease of his or her choice, provided it directly relates to a body system that we will cover in the class (see schedule). Papers should be 5-6 double-spaced pages, 1” margins on all sides, and either Times New Roman, Calibri, or Arial font. A references/works cited page must be included after the 5-6 written pages. Figures are encouraged but not required, and do not count towards the 5-6 written pages (up to a maximum of 8 pages including figures). Plagiarism is not acceptable, and will result in a 0 for this assignment. Papers are due as hard copies, as indicated on the schedule. No late papers or emailed copies will be accepted.

**Exams**

Exams will be administered as designated in the schedule. If you arrive late to class, you will miss all or part of the time allotted for taking the exam, so come on time if you want the maximum amount of time to take your exam. During the course of the semester, three non-cumulative exams will be given, covering only the material since the proceeding exam. Your lowest exam score will be dropped. There will be no make-up exams. Consequently, if you miss an exam for any reason, that will count as your dropped exam. All cell phones and other such devises must be completely off for the duration of an exam. If you have a special circumstance (such as expecting a call from a doctor, a family emergency, etc…), you must notify me before the exam begins. Exam format will be multiple choice (scantron NOT required), except for Honors Option students, who will have essay-style exams.

\*\*\*The Honor Code applies at all times. Cheating during an exam in any form will not be tolerated. Wandering eyes, whispering, intentionally allowing other students to clearly see your exam will result in a 20% drop on that exam grade, for a first offense. A second offense will result in a 0 being given on that exam.\*\*\*

**Final Exam**

The final exam will be cumulative. Therefore, it is critical to keep up with the material from the beginning of the semester onwards. The final exam will be of a similar format as the lecture exams, but may be longer. The final exam may not be dropped or made up.

**Study Guides**

Study guides will be posted on Bb prior to each exam. They are aimed at focusing your efforts when preparing for each exam, but are not necessarily a cumulative list of topics. If something appears in your PPTX slides, either from Bb or (especially) during class, it is fair game to appear on your exam, so please study accordingly.

The study guide for the final exam is simply your three previous study guides.

**Extra Credit**

Extra credit opportunities may be offered during the semester, at the discretion of the Professor. Exams may be curved at the discretion of the Professor. Extra credit may mean the difference between a letter grade and the next letter grade up, but only if the student’s overall grade is extremely close (probably within 1% of the next letter grade). Relying on extra credit is NOT the way to earn a grade.

**Time expectations for grading**

Exams and/or other assignments will be graded as soon as possible. The actual timeframe may vary. Inquiring into when you can expect to see your grade will NOT expedite the grading process. Rather, your focus should be on preparing for the next grading opportunity.

**Honors Option**

This course will be offered as an Honors Option Course. See documents in Bb for further details. To qualify for Honors Option, you must score an A on the first exam.

**How to Get the Most Out of This Course:**

Consider the following as a checklist for success. If you wish to improve your grade, first consult this checklist and perform an honest self-evaluation:

* Have a strong foundation in biology (especially), chemistry, and physics. Some remedial studying of these topics may be needed for some students.
* Be present physically and mentally, from start to finish, at every class. Do NOT pack up your belongings before class officially ends.
* Study without distractions, at least 10 hours per week, outside of scheduled lecture or lab times.
* Check your NOVA email at least once per day.
* Turn off your phone/tablet/laptop unless using these items for note taking or reading PPTX slides.
* Ask and/or answer as many questions as you can.
* Come to office hours / email questions frequently.
* Take detailed notes during class\*.

**\*Lectures/Note Taking**

Lecture PPTs will be posted on Bb under “Course Documents” prior to each class. The slides you see on the screen will be the same as the slides you have in your PPT notes, and so it may be unnecessary and counterproductive to try to copy every word from the screen during class. Instead, your notes should focus on concepts, themes, and points of emphasis made during class. Try to write down what isn’t already written for you.

**Grading Policy**

Grades are earned, not given. Grades reflect not only the student’s effort, but also comprehension and mastery of the material. Simply “working hard”, while necessary, does not warrant a specific grade. As such, “I think I deserve a grade of \_\_\_\_ because I worked so hard and always came to class” is not an acceptable argument, and will not hold any value. This is especially true at the end of the semester. The time to think about your grade is starting from the very first day, not waiting until the last one. If you need a grade of \_\_\_\_ to get into a specific program or further your career, I am here to help you achieve that. But you are the one responsible for earning that grade.

Bio 141 consists of lecture and laboratory. There are no separate attendance or participation grades, as these are things students should be doing anyway. Your overall grade (out of **1000 pts**) will be calculated as follows:

**Lecture (700 pts):**

Pathology Paper **= 100 pts**

3 exams (1 dropped, 2x200 pts each) **= 400 pts**

Cumulative Final Exam **= 200 pts**

**Lab (300 pts):**

See lab syllabus. The shared lab website can be accessed with the following link:

http://www.nvcc.edu/alexandria/science/s\_biolab.htm

**Overall course grades will be assessed as follows:**

**A: > 90 %**

**B: 80-89.99%**

**C: 70-79.99%**

**D: 60-69.99%**

**F: < 59.99%**

**Grades will not be rounded up.**

**Tutoring**

Students are strongly encouraged to bring questions or points of confusion directly to the instructor. However, for additional assistance, you may contact the Academic Center for Excellence, located in AA 229 (703-845-6363). They offer free tutoring for enrolled students.

**Special Needs/Accommodations**

If you need special assistance, you may contact disability services (nvcc.edu/depts./disability). You may then bring me documentation from disability services at the beginning of the semester, at which time we will discuss any special accommodations to best suit your needs.

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| **Tentative Date** | **Topic** |
| 1/12, 1/14 | Syllabus, Chemical & Physical Aspects of Life |
| **1/19**, 1/21 | **MLK Day**, Chemical & Physical Aspects of Life |
| 1/26, 1/28 | Basic Anatomical Terminology |
| 2/2, 2/4 | Structure / Function of Cells & Tissues, |
| 2/9, 2/11 | Structure / Function of Cells & Tissues |
| **2/16**, 2/18 | **Exam 1,** Cell Cycle |
| 2/23, 2/25 | Integumentary System |
| 3/2, 3/4 | Skeletal System |
| **3/9, 3/11** | **Spring Break** |
| 3/16, 3/18 | Skeletal System |

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| **Tentative Date** | **Topic** |
| **3/23**, 3/25 | **Exam 2**, Muscular System |
| 3/30, 4/1 | Muscular System |
| 4/6, 4/8 | Nervous System |
| 4/13, 4/15 | Nervous System |
| 4/20, 4/21 | General, Special Senses |
| 4/27, **4/29** | General, Special Senses, **Exam 3, Papers Due** |
| **5/4 (7:30 – 9:10)**  | **Final Exam (Cumulative)** |