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

**Lecture: MW 8:00 – 9:15, AA436**

**Lab: T 8:00 – 10:40, AA493**

**4 credits**

**Fall 2014**

Instructor: Dr. David Fernandez

Office: AA352, Row 5

E-mail: dfernandez@nvcc.edu

Office hours:

Mon 9:30 – 10:30, Tue 11:00 – 12:00, Wed 9:30 – 10:30, Thu 10:15 – 12:15, Fri 11:00 – 4:00

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

**Census Date: 9/8/14**

Last day to withdraw with refund

**Withdraw Date: 10/30/14**

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

**Course Texts (Required)**

 Laboratory Manual for Anatomy and Physiology by Allen and Harper, 4th Ed.

Human Anatomy & Physiology by Marieb and Hoehn, 9th 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, unless otherwise specified (scantron NOT required).

\*\*\*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 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 comes in the form of especially challenging questions at the end of each exam, including the final exam. If answered correctly, these questions replace regular exam questions which were missed, on a one-to-one basis: e.g., -3+2 = -1 on an exam. Exams will be curved at the discretion of the Instructor. Students requesting additional extra credit at any point during the semester (especially at the end), will be referred back to this section in the syllabus

**Honors Option**

This course will be offered as an Honors Option Course. See document in Bb for further details.

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

* Come to every class on time, stay for the entire duration.
* Check your NOVA email frequently.
* Turn off your phone.
* Ask (and answer) as many questions as you can.
* Take detailed notes during class\*.
* Study a little each night, even if you feel confident with the material.
* Take exam preparation seriously – don’t cram just before the exam!
* Come to office hours / email questions, no matter how trivial you may think they are.

**\*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 will 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.

**Grading Policy**

Bio 141 consists of lecture and laboratory. Your overall grade (out of **1000 pts**) will be calculated as follows:

**Lecture (700 pts):**

Pathology paper **= 100 pts**

3 exams (1 dropped, 2x150 pts each) **= 300 pts**

Cumulative Final Exam **= 300 pts**

**Lab (300 pts):**

See laboratory handout

**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%**

**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 Bisdorf 229 (703-845-6363). They offer free tutoring for enrolled students.

**Special Needs**

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.

**Lecture Schedule**

The lecture schedule appears on the next page. It is subject to change as necessary and at the discretion of the Instructor.

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| **Tentative Date** | **Topic** |
| 8/20 | Intro, Syllabus |
| 8/25, 8/27 | Chemical & Physical Aspects of Life |
| **9/1 (Labor Day)**, 9/3 | Chemical & Physical Aspects of Life |
| 9/8, 9/10 | Basic Anatomical Terminology  |
| 9/15, 9/17 | Structure / Function of Cells & Tissues |
| 9/22, **9/24** | Structure / Function of Cells & Tissues, **Exam 1** |
| 9/29, 10/1 | Cell Cycle  |
| 10/6, 10/8 | Integumentary System |
| **10/13** **(Columbus Day)**, 10/15 | Skeletal System |
| 10/20, 10/22 | Skeletal System |

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| **Tentative Date** | **Topic** |
| **10/27**, 10/29 | **Exam 2**, Muscular System |
| 11/3, 11/5 | Muscular System |
| 11/10, 11/12 | Nervous System |
| 11/17, 11/19 | Nervous System |
| 11/24, **11/26 (Thanksgiving)** | Special Senses |
| 12/1, 12/3 | Special Senses, Review |
| **12/8** | **Exam 3, Papers Due** |
| **12/15 (8:00 – 9:40)**  | **Final Exam (Cumulative)** |