BIOL 132001: Anatomy and Physiology 2, 3 credits
Boston College Summer Session 2018
Summer Session 1, 6/4/18 – 6/21/18
Monday, Tuesday, Wednesday, Thursday 8:30am-11:30am

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Phone Number:
Office: Higgins 425
Office Hours: Monday-Thursday 7:00am-8:15am

Boston College Mission Statement
Strengthened by more than a century and a half of dedication to academic excellence, Boston College commits itself to the highest standards of teaching and research in undergraduate, graduate and professional programs and to the pursuit of a just society through its own accomplishments, the work of its faculty and staff, and the achievements of its graduates. It seeks both to advance its place among the nation’s finest universities and to bring to the company of its distinguished peers and to contemporary society the richness of the Catholic intellectual ideal of a mutually illuminating relationship between religious faith and free intellectual inquiry.

Boston College draws inspiration for its academic societal mission from its distinctive religious tradition. As a Catholic and Jesuit university, it is rooted in a world view that encounters God in all creation and through all human activity, especially in the search for truth in every discipline, in the desire to learn, and in the call to live justly together. In this spirit, the University regards the contribution of different religious traditions and value systems as essential to the fullness of its intellectual life and to the continuous development of its distinctive intellectual heritage.

Course Description
This course is a continuation of BIOL 1300/1310, with a primary emphasis on the physiology of the major body systems. Systems studied in this course include the sensory, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. While the physiological functions under normal conditions are emphasized, relevant disease or dysfunctional conditions are also discussed.

Textbooks & Readings
Canvas
Canvas is the Learning Management System (LMS) at Boston College, designed to help faculty and students share ideas, collaborate on assignments, discuss course readings and materials, submit assignments, and much more - all online. As a Boston College student, you should familiarize yourself with this important tool. For more information and training resources for using Canvas, click here.

Course Objectives

Upon successful completion of this course, students should be able to:
• Understand the function of the special senses including sight, vision, hearing and taste
• Explain the complexity of the endocrine system
• Discuss the uniqueness of the cardiovascular system
• Recognize various blood vessels
• Study the intricacies of the immune system, the respiratory system, the digestive system, the urinary system and the reproductive system
• Demonstrate knowledge across cultural settings and the impact of culture, gender, and age as it relates to anatomy and physiology, as well as to how medicine is practiced
• Demonstrate ethical knowledge pertaining to human and animal use the study of anatomy and physiology

Grading
Exams:

There will be 3 Exams, dates can be found on the syllabus and will always be held on Thursday. I will also give ample reminders of upcoming exams during lecture. Each exam will be worth 1/3 of your final grade!

The exam format will consist of the use choice, matching, true/false, fill in the blank, as well as some short answer and will be designed to take half the Thursday lecture period.

Grade Determination:

<table>
<thead>
<tr>
<th>Range</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>90-100</td>
<td>A-/A</td>
</tr>
<tr>
<td>80-89</td>
<td>B-/B+</td>
</tr>
<tr>
<td>70-79</td>
<td>C-/C+</td>
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<tr>
<td>60-69</td>
<td>D-/D+</td>
</tr>
<tr>
<td>Below 60</td>
<td>F</td>
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</tbody>
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Deadlines and Late Work

In general, make up exams WILL NOT be given, however, in the event of an emergency, please contact me PRIOR the exam, preferably not the day of the exam. If I do not hear from you regarding a missed exam, you will receive a zero for that exam.

Course Schedule
<table>
<thead>
<tr>
<th>Date/Week</th>
<th>Topic</th>
<th>Reading/Assignments</th>
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</table>
| 6/4      | The Autonomic Nervous System  
The Special Senses: Vision, Taste, Smell, Audition, and Balance | Chapter 14  
Chapter 15 |
| 6/5      | Introduction to the Endocrine System  
The Hypothalamus, Pituitary, Thyroid, Parathyroid, and Adrenal Gland Hormones | Chapter 16 |
| 6/6      | The Pancreas, Pineal, Thymus and Gonads  
Mechanisms of Hormone Action and Regulation | Chapter 16 |
| 6/7      | **EXAM 1:**  
The Blood | Chapter 17 |
| 6/11     | The Cardiovascular System:  
The Heart, Blood Vessels, Cardiovascular Physiology and Disease | Chapter 18  
Chapter 19 |
| 6/12     | The Lymphatic System  
The Immune System | Chapter 20  
Chapter 21 |
| 6/13     | The Respiratory System  
Respiratory Physiology | Chapter 22 |
| 6/14     | **EXAM 2:**  
The Digestive System | Chapter 23 |
| 6/18     | The Digestive System (cont.)  
Nutrition and Metabolism | Chapter 23  
Chapter 24 |
| 6/19     | The Renal System  
Renal Physiology | Chapter 25  
Chapter 26 |
| 6/20     | The Reproductive System  
Review | Chapter 27 |
| 6/21     | **CUMULATIVE FINAL EXAM** | |

**Attendance**

Class attendance is highly encouraged. It is to your benefit to be present for all lectures. The exams will be based on what is covered in class. That will include information from the text as well as any outside, relevant information discussed to help in aiding with the understand of a given topic. There will also be time allotted for questions, to clear up any confusion you may have on a given topic. Do your best to make each lecture.

Consistent with BC’s commitment to creating a learning environment that is respectful of persons of differing backgrounds, we believe that every reasonable effort should be made to allow members of the university community to observe their religious holidays without jeopardizing their academic status. Students are responsible for reviewing course syllabi as soon as possible, and for communicating with the instructor promptly regarding any possible conflicts with observed religious holidays. Students are responsible for completing all class requirements for days missed due to conflicts with religious holidays.

**Accommodation and Accessibility**

Boston College is committed to providing accommodations to students, faculty, staff and visitors with disabilities. Specific documentation from the appropriate office is required for students seeking accommodation in Summer Session courses. Advanced notice and formal registration with the appropriate office is required to facilitate this process. There are two separate offices at BC that coordinate services for students with disabilities:

- **The Connors Family Learning Center (CFLC)** coordinates services for students with LD and ADHD.
- **The Disabilities Services Office (DSO)** coordinates services for all other disabilities.

Find out more about BC’s commitment to accessibility at [www.bc.edu/sites/accessibility](http://www.bc.edu/sites/accessibility).
Scholarship and Academic Integrity

Students in Summer Session courses must produce original work and cite references appropriately. Failure to cite references is plagiarism. Academic dishonesty includes, but is not necessarily limited to, plagiarism, fabrication, facilitating academic dishonesty, cheating on exams or assignments, or submitting the same material or substantially similar material to meet the requirements of more than one course without seeking permission of all instructors concerned. Scholastic misconduct may also involve, but is not necessarily limited to, acts that violate the rights of other students, such as depriving another student of course materials or interfering with another student’s work. Please see the Boston College policy on academic integrity for more information.