Texas A&M University-Commerce
2600 South Neal Street Commerce, TX 75429-3011
Department of Biological and Environmental Sciences
903 886-5378 Fax: 903 886-5997

Course Number  Course Title
BSc 305     General Physiology

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<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Summer Semester</th>
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<td>2012</td>
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Name of Instructor
Lec: Dr. Michael Hanna
Lab 01: Ms. Lauren Bailey; lbailey@leomailtamuc.edu
Lab 02: Ms. Tiffany Hester; thester1@leomail.tamuc.edu

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<th>Day</th>
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<tr>
<td>Lec</td>
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<td>Science #122</td>
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<td>LabA</td>
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Final Exam
Tuesday December 11th, 2012 10:30-12:30

Office Hours, Location, Phone
Monday: 2:00-4:00pm
Tuesday: 2:00-3:00pm
Thursday: 2:00-4:00pm
or by appointment,

Dr. Hanna Office: STC #261, 903-468-6064
Dr. Hanna Laboratory: STC #227, 256

E-mail Michael.Hanna@tamuc.edu

UNIVERSITY STATEMENTS
Academic Integrity
By accepting this syllabus, you pledge to uphold the principles of Academic Integrity expressed by the Texas A&M University-Commerce Community. You agree to observe these principles yourself and to defend them against abuse by others. The first instance of cheating will result in an automatic zero on the exam and/or assignment. A second instance will result in a zero in the course. Cheating constitutes copying information from another student or non-allowable material as well as plagiarism. Plagiarism is a criminal activity. You must cite all sources of information. Copying of material, whether parts of sentences,
whole sentences, paragraphs, or entire articles, will result in a score of zero for your essay and can result in further disciplinary action.

**Conduct Policy**
All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See Student’s Guide Handbook, Policies and Procedures, Conduct)

**Special Needs and Accommodations**
Please advise the instructor of any special problems or needs at the beginning of the semester. The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

**Office of Student Disability Resources and Services**
Texas A&M University-Commerce
Gee Library, Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamu-commerce.edu

**Access to Student Work**
Copies of your work in this course including copies of any submitted papers and your portfolios may be kept on file for institutional research, assessment and accreditation purposes. All work used for these purposes will be submitted anonymously.

**University Policy on Weather Closings**
Snow closings are generally announced on area television and radio stations. Unless otherwise advised by radio announcement or by official bulletins on the number listed above, students are expected to report for class as near normal time as possible on days when weather conditions are adverse. Decisions as to snow closing or delayed opening are not generally made before 5:00 AM of the working day. Students are expected to attend class if the University is not officially closed.

**Early Intervention for First Year Students**
Early intervention for freshmen is designed to communicate the University’s interest in their success and a willingness to participate fully to help students accomplish their academic objectives. The university through faculty advisors and mentors will assist students who may be experiencing difficulty to focus on improvement and course completion. This process will allow students to be knowledgeable about their academic progress early in the semester and will provide faculty and staff with useful data for assisting students and enhancing retention. Grade reports will be mailed by the end of the sixth week of the semester.

**University Policy on Payment**
The first day of class that fall 2012 schedules will be dropped on Wednesday, September 12th for students who have not paid the balance due on their accounts. Check the status of
your accounts on MyLeo. It is available 24/7 at https://leo.tamuc.edu/. If you need assistance to pay their balance, please refer to the Bursar’s Office (903-886-5051).

**Textbook:**  

**Lab Textbook:**  
*Integrate: The Benjamin Cummings Custom Laboratory Program for Anatomy & Physiology. © 2009*

**BROAD PURPOSE OF COURSE:**

This course is designed for majors with a well-rounded background in biology. Therefore, this course provides students with an understanding of basic physiological principles and the functional organization of living systems. Emphasis will be placed on human physiology and the integrated functions of organ systems. While no particular topic will be covered in great detail, the aim is to provide an overview of how many systems work and how they work together. Students are expected to learn the basic principles and concepts of human physiology both at the molecular and cellular levels, to learn to reason scientifically, and to understand and describe the cooperative function of multiple organ systems in the human body. Topics covered include the endocrine, nervous, muscular, cardiovascular, immune, urinary and respiratory systems.

**Student Learning Outcomes:** Upon successful completion of this course, students will be expected to:

- Describe the four categories of membrane receptors and how these receptors differ from intracellular receptors including their ligands.
- List the various structures that make up the limbic system and the function of this system.

Students answer 10 multiple choice questions through eCollege during the first week of the semester. These questions will be directly related to the above topics. Based upon the degree of knowledge shown by the students any material missed by a majority will be emphasized during the semester as the topics arise. During the last week of the semester similar questions will again be taken by the students to determine any information that further needs to be stressed. Furthermore discussions during the class encompassing questions posed to the students will highlight information that needs to be accentuated.

**TEACHING METHOD**

**Web Enhanced Course:** Formal lectures will be supplemented with appropriate audiovisual materials, at home problems, laboratory exercises and discussions. PowerPoint of all lectures will be available for you in the Doc Sharing portion of eCollege. I strongly encourage you to print these slides (4 or 6 slides per page) so you can take notes pertaining to the relevant slides in class. Alternatively lap top computers can be used during lecture. I will post announcements on the home page of the course for reminders of important due dates. I encourage use of the student lounge, Virtual office and the discussion boards to help with clarification of any unclear material. Progress in the class can monitored using the Gradebook.

Three exams covering approximately 4 chapters will be taken. One cumulative final will be taken by students. Questions for at home questions (every week), quizzes (every other week) and exams from any given chapter are derived from the same Test Pool. Therefore you may see questions repeated.
**Attendance and Absences:** You are expected to attend ALL scheduled lectures and labs and take the exams as scheduled. You will be held responsible for all information covered in lecture.

**At Home Assignments and Quizzes:** At home questions will be assigned and are due weekly. Quizzes will be approximately every other week. Both quiz and at home questions will consist of 10 multiple choice questions. You will have 15 minutes to complete them. You will have only one opportunity to enter the assigned questions and complete them. These questions are drawn from the same test pool and are used on exams as well. Therefore I suggest completing the at home questions first, then quizzes (if they are due) to best prepare for the exams. They will be available to complete for two weeks. If you complete the at home questions in the week they are assigned you will receive full credit regardless of the number of correct responses. If they are done in the subsequent week it will be treated as a quiz. This will hopefully push you to keep up with the material. Both will be completed through eCollege. Be sure to check eCollege announcements for continual updates.

**Exams:** Consist of multiple choice questions (60%) and short answer questions (40%). The multiple choice questions are drawn from the same test pool as the at home and quiz pools so be sure to complete those first. These will be taken in class.

**Makeup Policy:** The student is responsible for requesting a makeup when they are unable to attend the regularly scheduled examination and must schedule the makeup within 2 days of the absence. Makeup exams will be scheduled only in the event of an EXCUSED absence (as defined in the Student’s Guidebook). If the test is not made-up, the student will receive a zero for that exam.

**GRADING SCALE**

The final course letter grade will be assigned based upon the following break-down:

- 90 - 100% = A
- 80 - 89% = B
- 70 - 79% = C
- 60 - 69% = D
- 00 - 59% = F

**GRADING POLICY**

- 3 Lecture Exams at 100 points each = 300 points
- Comprehensive Final Lecture Exam = 100 points
- Quizzes and at home assignments for a total of = 100 points
- Presentation = 25 points (extra credit which I encourage)
- Laboratory = 100 points

**SCHEDULE**

Week 1: August 27th-Aug 31st
- Meet and Greet
- Introduction and Communication (Chapters 1&6)

Week 2: Sept. 3th – 7th
- Introduction to the Endocrine System (Chapter 7)
- Quiz #1

Week 3: Sept. 10th-14th
- Metabolism and Energy Balance (Chapter 22)
Week 4: Sept. 17th-21st  
Endocrine Control of Growth and Metabolism (Chapter 23)  
Exam #1

Week 5: Sept. 24th-28th  
Neuronal Physiology (Chapter 8)

Week 6: Oct. 3rd-7th  
Central Nervous System (Chapter 9)  
Quiz #2

Week 7: Oct. 8th-12th  
Peripheral Nervous System (Chapter 11)

Week 8: Oct. 15th-19th  
Muscles (Chapter 12)  
Exam #2

Week 9: Oct. 21st-26th  
Cardiovascular Physiology (Chapter 14)

Week 10: Oct 29th – Nov 2nd  
Blood (Chapter 16)  
Quiz #3

Week 11: Nov. 5th-9th  
The Immune System (Chapter 24)

Week 12: Nov. 12th – 16th  
Kidneys (Chapter 19)  
Exam #3

Week 13: Nov. 19th  
Respiratory Physiology (Chapter 17)

Week 14: Nov. 26th – Dec. 30th  
Digestive System (Chapter 21)  
Quiz #4

Week 15: Dec. 3rd-7th  
Reproduction and Development (Chapter 26)

Cumulative Final:  
Tuesday December 11th 10:30 am – 12:30 pm

- ALL DATES AND ASSIGNMENTS ARE TENTATIVE AND SUBJECT TO CHANGE!!