**BIO 238 001 (A&P1) Syllabus & Policy**

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**Phone:** (936)468-2315  
**Office hours:** MW 2:00 – 4:00, TR 8:00 – 10:00, F 1:00-3:00 (call for appointment)

**Class meeting time & place:** MWF: 9:00– 9:50, SCI 137


**Course Description:** Three hours per week. Structure and function of the skeletal, muscular, and nervous systems. Not open to students who have received credit for BIO 327. Not open for credit for biology majors or minors. Co-requisite: BIO238L

**Number of Credit Hours:** Three credit hours.

**General Education Core Curriculum Objectives/Outcomes:**
- **CO 1:** Critical Thinking: to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis.
- **CO 2:** Communication Skills: to include effective development, interpretation and expression of ideas through written, oral and visual communication
- **CO 3:** Empirical and Quantitative Skills: to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- **CO 4:** Teamwork: to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

**Student Learning Outcomes:**
- **SLO 1:** Students will describe the structure, function, and location of the major components of integumentary, skeletal, muscular, and nervous body systems. (COs 1-4)
- **SLO 2:** Students will explain how various body systems interact in order to maintain homeostasis. (COs 1, 2)
- **SLO 3:** Students will use correct anatomical and physiological terminology. (CO 2)

**Course Requirements:** Students must enroll in both lecture (BIO238) and lab (BIO238L) and final grades will reflect both components. The grade will be based on student performance on examinations.

**Grading Policy:** Overall BIO238 and BIO238L grades will weigh BIO238 as 65% and BIO238L as 35% using the formula:

\[ (\text{BIO238} \times 0.65) + (\text{BIO238L} \times 0.35) = \text{final grade for both BIO238 and BIO238L} \]

Scale: A 90% - 100%, B 80% - 89%, C 70% - 79%, D 60% - 69% F 59% or below

Note 1: The average of 4 unit exams will be used to calculate the BIO238 lecture grade.

Note 2: Failing either BIO238 or BIO238L will result in an F for both courses.

**Making-up Exams:**
If you have an EXCUSED absence, you may make up your missed exam prior to the administration of the next exam in the course.

Excused absences include:
- **Sickness** – you must provide a doctor’s note upon return.
- **Family emergency or death** - If there is a family emergency or death in the family you will need to contact the Office of Student Rights and Responsibilities ((room) 315 Rusk Building, (telephone) 936-468-2703) and request an absence notification be sent to your instructors. The Office of Student Rights and Responsibilities will notify all your instructors of your absence. You must provide a proof of the reason for the absence.
- **School function** - If you will be absent due to a school related function you need to notify me at least 24 hours in advance and provide a signed note from the faculty member in charge of the function.

**Students with Disabilities:** To obtain disability related accommodations, alternate formats, and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, room 325, telephone (936)468-3004, (936)468-1004 as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodations and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations.
Acceptable Student Behavior:
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom.

Academic Integrity (A-9.1):
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.
Education Faculty members are responsible for providing information about academic integrity and education for maintaining academic honesty during their coursework. Course syllabi provide information about penalties and the appeal process.
Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one’s own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one’s paper without giving the author due credit. Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54):
Ordinarily, at the discretion of the instructor or record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If the students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the GPA. The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.
# BIO 238 Fall 2017

## Tentative Lecture Schedule

Note: Lecture topics and dates may be changed during the course of the semester at the instructor's discretion. The class will be notified of any changes to the syllabus via D2L.

<table>
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<tr>
<th>Week</th>
<th>Dates</th>
<th>Content</th>
<th>Pages</th>
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| 1    | Aug 28 – Sept 1 | M. A vs. P. Human organization.  
W. Homeostasis  
F. Atomic structure. Ions and ionic bonds. | 1-17 18-23  29-35 |
| 2    | Sept. 4 - 8  | M. Covalent bonding  
W. Organic compounds. Lipids & Carbs  
| 3    | Sept. 11 - 15 | M. Energy.  
W. Enzymes.  
F. Respiration. | 70-80  81-85  87-98 |
| 4    | Sept. 18 - 22 | **Exam 1 (Chapters 1-3)**  
W. Intro to cells. Cell membrane and transport  
F. Osmosis and Active Transport | 103-113  114-121 |
| 5    | Sept. 25 - 29 | M. Cell Structures  
W. Cell Structures: nucleus and DNA.  
F. Transcription & Translation. | 124-134  135-136  156-141 |
| 6    | Oct. 2 – 6   | M. Cell cycle. DNA replication.  
F. Integumentary S: skin. | 142-146  186-197 |
| 7    | Oct. 9 – 13  | M. Integumentary S: nails, hair, glands.  
W. Skeletal sys: intro + Bone cells  
F. Skeletal system: Bone matrix + Compact and spongy bone | 198-203  212-219  219-221 |
| 8    | Oct. 16 – 20 | **Exam 2 (Chapters 4 and 6)**  
W. Skeletal: Cartilage growth + Bone formation  
F. Bone remodeling and Ca2+ storage. | 221-229  229-233 |
| 9    | Oct. 23 – 27 | M. Muscular sys: Myocyte (sarcolemma, SR)  
W. Muscular sys: Innervation + synaptic signaling  
F. Skeletal muscle contraction | 332-338  338-343  343-350 |
| 10   | Oct. 30 – Nov. 3 | M. Muscular sys: Skeletal muscle metabolism  
W. Muscular sys: Skeletal muscle performance and cardiac muscle  
F. Muscular sys: Smooth muscle | 350-356  360  360-364 |
| 11   | Nov. 6 - 10  | M. NS. Neuron, neuroglia and nerves  
W. Segments: Receptive and initial  
F. Segments: Conductive and Transmission (synapse) | 438-455  455-463  463-472 |
| 12   | Nov. 13 - 17 | **Exam 3 (Chapter 7, 10 and 12)**  
W. Brain intro.  
F. Brain: Cerebrum | 484-498  499-508 |
| 13   | Nov. 20 - 24 | **Nov 21 – 25 Thanksgiving Holiday** |
| 14   | Nov. 27 – Dec. 1 | M. Brain: diencephalon + brain stem  
W. Brain: cerebellum + limbic. Spinal cord  
F. Somatic vs. autonomic NS. | 509-515  516-518: 538-542  577-581 |
| 15   | Dec. 4 – 8   | M. Parasympathetic vs Sympathetic division  
W. Autonomic neurotransmitters  
F. Review | 582-588  590=591 |
| 16   | Dec. 11 - 15 | **Exam 4 (Chapters 13-15)**  
**238 001 Monday Dec 11 8-10 am**  
**238 002 Wed Dec 13 10:30 – 12:30 am** |