

## SYLLABUS

<b>COURSE TITLE:</b>	<b>ANATOMY &amp; PHYSIOLOGY</b>
<b>COURSE NUMBER:</b>	<b>BIO 139</b>
<b>INSTRUCTOR NAME:</b>	
<b>DATE:</b>	<b>10/6/09</b>
<b>CLOCK/CREDIT HOURS:</b>	<u>75</u> CLOCK HOURS (55 LECTURE / 20 LAB) <u>6.5</u> CREDIT HOURS
<b>COURSE LENGTH:</b>	<u>5</u> WEEKS
<b>UNIT OF ACADEMIC MEASUREMENT (SELECT ONE):</b>	<u>    </u> CLOCK HOURS <u>  X  </u> QUARTER SYSTEM <u>    </u> SEMESTER SYSTEM
<b>PREREQUISITES:</b>	<b>NONE</b>
<b>CO-REQUISITES:</b>	<b>NONE</b>
<b>COURSE DESCRIPTION:</b>	This course is an in-depth study of the structure and function of the systems and organs of the human body and the interrelationships of the body's systems. Emphasis is on the cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems.

	TEXTBOOKS AND MATERIALS	(CHECK ONE)	
		REQUIRED	OPTIONAL
<b>TEXTBOOK (S)</b>	Essentials of Human Anatomy and Physiology, 9 <sup>th</sup> Edition, Elaine N. Marieb, Pearson/Benjamin Cummings, 2006. ISBN: 9780321513427  Anatomy and Physiology Coloring Book: A complete study guide, 9 <sup>th</sup> Edition, Elaine N. Marieb, 2006. ISBN: 9780805347784	✓	
<b>RESOURCES &amp; SUPPLIES</b>	Notebook, pen, pencil	✓	

**COURSE OBJECTIVES:** Upon completion of this course, the student should be able to do the following:

1. Describe the levels of organization and division in the human body

2. Examine the construction and function of cells and tissues, organs, and selected body systems
3. Discuss the makeup and purpose of the integumentary system
4. Examine and identify the structures associated with the skeletal and muscular systems.
5. Understand the function of the nervous system.
6. Examine the special senses.
7. Understand the function of the endocrine system and how it mirrors that of the nervous system.

**INSTRUCTIONAL METHODS:** Lecture, classroom discussions, handouts, presentations, Internet research, writing assignments, and a research paper will assist in the analysis and evaluation of psychological principles and human behavior

**GRADING:** Student performance will be evaluated based upon the following criteria:

Class average =	Tests, Quizzes and Projects	50%
	Class Participation	10%
	*Final Comprehensive Exam	40%

\* Minimum passing grade for the Final Exam is 75%.

Lab average = Quizzes, projects, and assignments 100%

FINAL GRADE = Class average = 95%  
Lab average = 5%

#### **GRADING SCALE**

90 to 100: A (4.00) Excellent

80 to 89: B (3.00) Above Average

70 to 79: C (2.00) Average

69 and below: F (0.00) Failure

#### **LIBRARY ASSIGNMENT(S):**

As assigned by the instructor. Students are encouraged to utilize the school resource center as a supplement to classroom and lab activities. The resource center provides relevant reference texts, periodicals, and CDs/DVDs that complement course material. Additionally, Web sites, online databases, and full-text periodicals can be accessed via the Internet and CECybrary. Students can access the CECybrary with their portal ID

#### **PORTFOLIO ASSIGNMENT:**

Program portfolios are a recommended and demonstrable means for assessing student competencies. Each student should select a project or paper from this course that best demonstrates his/her proficiencies with the material presented. Each student should then review and assess the chosen project or paper with the course instructor, revise it as needed, and add it to his/her program portfolio.

## **COURSE POLICIES:**

It is expected that students will have completed homework assignments prior to class. It is also important that students keep up with assigned reading, as this is a fast-paced course that covers a great deal of material.

**Make-Up Policy:** Make-up of missed classes cannot erase an absence from a student's record. Make-up for class assignments of any kind are at the sole discretion of the instructor.

**Class Attendance:** Regular attendance in classes is considered essential, since the cultivation of desirable work habits is as important as the development of technical skills. Students should be present and on time for all classes. By developing this important habit while in College, students are better prepared to meet employers' expectations of regular and punctual attendance.

A permanent record of each student's attendance is maintained. This record is made available to prospective employers. Any student who is excessively absent will be contacted for advising.

Any student absent for more than 25 percent of scheduled contact hours for a particular class may be withdrawn from that class with a grade of "W," or "F." If, however, any of the 25 percent is due to extenuating circumstances (listed below), the Academic Dean may excuse the absences if the proper documentation is received from the student in a timely manner.

Extenuating Circumstances:

- Jury Duty
- Military Duty
- Illness/Death in immediate family
- Court Proceedings
- Other mitigating circumstances as approved by the Academic Dean or Campus President.

Note: Students who are withdrawn from one or more courses due to attendance violations but are not withdrawn from the institution will not receive an adjustment to any financial aid awards that have been disbursed prior to such withdrawal. Any student who violates the attendance requirements for all classes may be withdrawn from active student status.

Attendance policies for clinical courses may differ from official attendance policies (see the clinical student handbook and syllabus for specific requirements).

**Academic Integrity Policy:** All Sanford-Brown College students are expected to conduct themselves in an ethical and professional manner. All academic assignments, including papers, homework, tests, and in-class assignments are to be the work of the individual student unless otherwise specified by the instructor. The following are examples of unethical or unprofessional behavior:

- Plagiarism: Using another person's words, ideas, or results without giving proper credit to that person.
- Using notes, textbooks, or other materials when not allowed during an examination.
- Giving test questions or answers to another student or obtaining them for another student.
- Partly or wholly completing an assignment for another student.

**Consequences:** A student who acts in an unethical or unprofessional manner on a test or assignment will receive a grade of "0" for that test or assignment. A second incident of unethical or unprofessional behavior will result in administrative termination from the College.

**TOPICAL OUTLINE:**

TOPIC AND WEEK	DESCRIPTION OF CONTENT	RESOURCES	ASSIGNMENTS AND TESTS
<p><b>Week 1</b></p> <p><b>An Introduction to Anatomy and Physiology, Structure and Function of the Body</b></p> <p><b>Hours 1-15</b></p>	<p>STRUCTURAL LEVELS OF ORGANIZATION, HOMEOSTASIS, ANATOMICAL POSITIONS AND DIRECTIONS; PLANES, BODY CAVITIES, AND BODY REGIONS; THE BALANCE OF BODY FUNCTIONS</p> <p>CELLS AND TISSUES: CELLULAR BASIS OF LIFE, CELL STRUCTURE AND FUNCTION, MOVEMENT OF SUBSTANCES THROUGH CELL MEMBRANES, CELL REPRODUCTION AND HEREDITY, TISSUE TYPES, DEVELOPMENTAL ASPECTS OF CELLS AND TISSUES</p>	<p><u>Essentials of Human Anatomy and Physiology, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, Pearson/Benjamin Cummings, 2006. ISBN: 0-8053-7327-6</p> <p><u>Anatomy and Physiology Coloring Book: A complete study guide, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, 2006. ISBN: 0-8053-7276-8</p> <p>Notebook, pen, pencil</p>	<p><b>CHAPTER 1, PAGES 2-7, 7-9, 9-11, 11-19</b> Do review questions at end of chapter and in work/coloring book for chapter 1</p> <p><b>CHAPTER 3, PAGES 62-63, 63,72, 72-85, 85-98, 98-99</b>, DO REVIEW QUESTIONS AT END OF CHAPTER AND WORKBOOK FOR CHAPTER 3</p>
<p><b>Week 2</b></p> <p><b>The Integumentary System and Body Membranes</b></p> <p><b>The Skeletal System and Joints</b></p> <p><b>Hours 1-15</b></p>	<p>CLASSIFICATION OF BODY MEMBRANES, THE SKIN, BASIC SKIN FUNCTIONS, SKIN STRUCTURE, APPENDAGES OF THE SKIN (GLANDS AND HAIR FOLLICLES), DEVELOPMENTAL ASPECTS OF SKIN AND BODY MEMBRANES.</p> <p>OVERVIEW OF BONES, AXIAL SKELETON, APPENDICULAR SKELETON, JOINTS, ARTICULATIONS AND MOVEMENTS, DEVELOPMENTAL ASPECTS OF THE SKELETON</p>	<p><u>Essentials of Human Anatomy and Physiology, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, Pearson/Benjamin Cummings, 2006. ISBN: 0-8053-7327-6</p> <p><u>Anatomy and Physiology Coloring Book: A complete study guide, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, 2006. ISBN: 0-8053-7276-8</p> <p>Notebook, pen, pencil</p>	<p><b>CHAPTER 4, PAGES 108-110, 110-124.</b> DO REVIEW QUESTIONS AT END OF CHAPTER AND WORKBOOK FOR CHAPTER 4</p> <p><b>CHAPTER 5, PP. 130-138, 139-153, 153-160, 163-168, 168-170</b> DO END OF CHAPTER QUESTIONS AND WORK BOOK FOR CHPT 4</p>

TOPIC AND WEEK	DESCRIPTION OF CONTENT	RESOURCES	ASSIGNMENTS AND TESTS
<p><b>Week 3</b></p> <p><b>The Muscular System</b></p> <p><b>Hours 1-15</b></p>	<p>MUSCLE TISSUE, STRUCTURE AND FUNCTION OF SKELETAL MUSCLE,</p> <p>TYPES OF SKELETAL MUSCLE CONTRACTION, SKELETAL MUSCLE GROUPS</p>	<p><u>Essentials of Human Anatomy and Physiology, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, Pearson/Benjamin Cummings, 2006. ISBN: 0-8053-7327-6</p> <p><u>Anatomy and Physiology Coloring Book: A complete study guide, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, 2006. ISBN: 0-8053-7276-8</p> <p>Notebook, pen, pencil</p>	<p><b>CHAPTER 6, PP. 178-182, 182-184, 184-192.</b></p> <p><b>CHAPTER 6 CONTINUED, PP. 192-200, 200-213, 214,</b> DO REVIEW QUESTIONS AT END OF CHAPTER AND WORK BOOK FOR CHAPTER 6</p>
<p><b>Week 4</b></p> <p><b>The Nervous System</b></p> <p><b>Hours 1-15</b></p>	<p>ORGANS AND DIVISIONS OF THE NERVOUS SYSTEM CELLS AND THE NERVOUS SYSTEM, CELLS AND THE NERVOUS SYSTEM, NERVES AND NERVOUS IMPULSES, THE SYNAPSE, THE CENTRAL NERVOUS SYSTEM,</p> <p>THE PERIPHERAL NERVOUS SYSTEM, THE AUTONOMIC NERVOUS SYSTEM</p>	<p><u>Essentials of Human Anatomy and Physiology, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, Pearson/Benjamin Cummings, 2006. ISBN: 0-8053-7327-6</p> <p><u>Anatomy and Physiology Coloring Book: A complete study guide, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, 2006. ISBN: 0-8053-7276-8</p> <p>Notebook, pen, pencil</p>	<p><b>CHAPTER 7, PP. 223-224, 224-235, 235-249</b></p> <p><b>CHAPTER 7 CONTINUED, PP. 249-263, 263-266</b> DO REVIEW QUESTIONS AT END OF CHAPTER AND WORKBOOK FOR CHAPTER 7</p>
<p><b>Week 5</b></p> <p><b>The Endocrine System</b></p> <p><b>Hours 1-15</b></p>	<p>MECHANISMS OF HORMONE ACTION AND ENDOCRINE DISEASE, REGULATION OF HORMONE SECRETION, THE ENDOCRINE GLANDS</p> <p>DEVELOPMENTAL ASPECTS OF THE ENDOCRINE SYSTEM PLUS REVIEW AND FINAL EXAMINATION</p>	<p><u>Essentials of Human Anatomy and Physiology, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, Pearson/Benjamin Cummings, 2006. ISBN: 0-8053-7327-6</p> <p><u>Anatomy and Physiology Coloring Book: A complete study guide, 8<sup>th</sup> Edition</u>, Elaine N. Marieb, 2006. ISBN: 0-8053-7276-8</p> <p>Notebook, pen, pencil</p>	<p><b>CHAPTER 9 PP. 303-320, 320-321</b></p> <p><b>CHAPTER 9 CONTINUED, PP. 323 PLUS</b> END OF CHAPTER REVIEW QUESTIONS AND WORKBOOK EXERCISES FOR CHAPTER 9</p>