

**University of Southern California**  
**Department of Biological Sciences/Human and Evolutionary Biology**  
**HBIO-301L: Human Anatomy (4 units)**  
**Fall 2016**

**Instructor:** John Callaghan, Ph.D.

Office Hours: MW 1:00 p.m. – 2:00 p.m.; Th 11:00 a.m. – 12:00 p.m. or by appointment

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**Lecture:** MW: 8:30 a.m. - 9:50 a.m., THH 208

**Final Exam:** Wednesday, December 7, 2016, 8:00 a.m. – 10:00 a.m.

**Laboratory:** As directed

**Course Description:**

The course is essentially an introduction to the fundamental concepts and interactions of the Primary Body Systems. In support of this, an analysis of Tissues and Cells, and Organs, will be undertaken.

**Text:**

**Human Anatomy, 6<sup>th</sup> Edition by Elaine N. Marieb, Patricia Brady Wilhelm and Jon B. Mallatt**

**Course Outline:**

The course will follow the outline given on the following pages with the laboratory sessions linked with the lecture topics.

<b>Class Meeting</b>	<b>Topic</b>
<b>August 22</b>	Introduction to Human Anatomy
<b>24</b>	Body Organization. The Cell. Gross Anatomy
<b>29</b>	<u>The SKELETAL SYSTEM:</u> Articulations Classification of Joints: Form & Function
<b>31</b>	The Vertebral Column: The Thoracic Cage The Pectoral Girdle. The Upper Limb

<b>September</b>	<b>7</b>	The Pelvic Girdle. The Lower Limb. The Joints. Sterno-Clavicular to Ankle and Foot
	<b>12</b>	<u>The NERVOUS SYSTEM</u> Central and Peripheral. Neural Tissue
	<b>14</b>	Spiral Cord and Spinal Nerves The Brain. Pathways and Higher Order Functions
	<b>19</b>	Review for Exam
	<b>21</b>	<u>FIRST MIDTERM EXAMINATION</u>
	<b>26</b>	Review of Exam Review and Introduction of the <u>MUSCULAR SYSTEM</u> Function of Skeletal Muscle
	<b>28</b>	Anatomy of Skeletal Muscle Origins and Insertions: Axial and Appendicular Muscles
<b>October</b>	<b>3</b>	Muscles of the Shoulder Girdle
	<b>5</b>	Muscles of the Elbow, Wrist, and Hand
	<b>10</b>	Muscles of the Neck and Trunk
	<b>12</b>	Muscles of the Pelvic Girdle. The Hip
	<b>17</b>	Muscles of the Knee, Ankle, and Foot
	<b>19</b>	Age, Sex, Muscle Function Muscle, Bone, Nerve Disorder
	<b>24</b>	Review for Exam
	<b>26</b>	<u>SECOND MIDTERM EXAMINATION</u>
	<b>31</b>	Review of Exam
<b>November</b>	<b>2</b>	<u>The CARDIOVASCULAR SYSTEM</u> The Blood: Function and Composition
	<b>7</b>	The Heart: Structure Internal Anatomy: Coronary Blood Vessels

9	Circulatory System
14/16	<u>The RESPIRATORY SYSTEM</u> The Lungs: Respiratory Muscles
21	<u>The LYMPHATIC SYSTEM</u> Functions: Structure of Vessels: Lymphocytes
28	<u>The ENDOCRINE SYSTEM</u> The Pituitary Gland: Thyroid. Hormones
30	Review for Final Exam

### **Grading Procedures:**

20%	Midterm 1
25%	Midterm 2
30%	Final
25%	Lab

Make-up work/exam will be determined through consultation with Dr. Callaghan.

## **Statement on Academic Conduct and Support Systems**

### Academic Conduct

Plagiarism - presenting someone else's ideas as your own, either verbatim or recast in your own words - is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in *SCampus* in Section 11, *Behavior Violating University Standards* <https://scampus.usc.edu/1100-behavior-violating-university-standards-and-appropriate-sanctions>. Other forms of academic dishonesty are equally unacceptable. See additional information in *SCampus* and university policies on scientific misconduct, <http://policy.usc.edu/scientific-misconduct>.

Discrimination, sexual assault, and harassment are not tolerated by the university. You are encouraged to report any incidents to the *Office of Equity and Diversity* <http://equity.usc.edu/> or to the *Department of Public Safety* <http://capsnet.usc.edu/department/department-public-safety/online-forms/contact-us>. This is important for the safety of the whole USC community. Another member of the university community - such as a friend, classmate, advisor, or faculty member - can help initiate the report, or can initiate the report on behalf of another person. *The Center for Women and Men* <http://www.usc.edu/student-affairs/cwm> provides 24/7 confidential support, and the sexual assault resource center webpage <http://sarc.usc.edu/> describes reporting options and other resources.

## Support Systems

A number of USC's schools provide support for students who need help with scholarly writing. Check with your advisor or program staff to find out more. Students whose primary language is not English should check with the *American Language Institute* <http://dornsife.usc.edu/ali>, which sponsors courses and workshops specifically for international graduate students. *The Office of Disability Services and Programs* [http://sait.usc.edu/academicsupport/centerprograms/dsp/home\\_index.html](http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html) provides certification for students with disabilities and helps arrange the relevant accommodations. If an officially declared emergency makes travel to campus infeasible, *USC Emergency Information* <http://emergency.usc.edu> will provide safety and other updates, including ways in which instruction will be continued by means of blackboard, teleconferencing, and other technology.