Course Description

Human anatomy including essential aspects of functional morphology will be covered. Topics covered may include the anatomical aspects of the integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, respiratory, urinary, digestive and reproductive systems. Detailed discussion of specific anatomical regions will be required.

Learning Objectives

1. Students will develop knowledge of the topology of the human anatomical systems (point and name → gross anatomy).
2. An understanding of the functional morphology (basic functions) of each human anatomical system will be gained.
3. The interdependence of each anatomical system will be discussed (example, requirements of the skeletal, muscular and nervous systems for coordination of movements).

Course Materials


Computer and Software: Access to a computer, modern browser and Internet connection are required for the course. A word processor compatible with the instructor's software is needed for preparation of written assignments. Formatting problems should be expected when the instructor's comments are incorporated into draft versions. Details for submitting draft and final versions will be provided with each written assignment.

Digital Imaging Device: Some method of producing digital images may be required for incorporating digital images into micro-assignments. Good solutions include a flatbed scanner, digital camera, etc. Suggest that students not buy anything if possible as a photo from a cell phone will often produce satisfactory results.

Web Resources: Blackboard, an online course management system, is used for this course. Students will be responsible for becoming proficient at using the system. Instructions can be found online by searching the eCampus section of the University of Nebraska at Kearney web site. Students will be expected to check the Blackboard site often for announcements and assignments. In addition, students are required to use and check the email account assigned to them by the university.

Lecture AVIs and Study Notes: AVI files in XVID format are provided for each lecture, and a PDF is also provided to help with note taking. Note that much of the provided material is copyrighted by the authors. Students should refrain from distributing the resources to others without proper permission from the copyright owner.
Grading

**Quizzes**: Numerous online quizzes are assigned throughout the semester and must be completed by the due date. Each quiz has a time limit. Students are allowed three attempts, and the attempt with the highest score is credited to their grade.

**Micro-Assignments (labs)**: Students will complete several micro-assignments. The topics will be assigned by the instructor. Typically, the assignment is to enhance the basic knowledge of anatomy and functional morphology of the human body.

**Online Exams**: Multiple time-limited online exams will be given. Students will only be able to take each exam once.

**Final**: Students will be provided with the exam approximately one week before the due date. Late exams will not be accepted.

**Point Distribution**: The value of each assignment will be as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points Each</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>best 15  @ 10 pts</td>
<td>150 pts</td>
</tr>
<tr>
<td>Mini-assignments</td>
<td>10 @ 15 pts</td>
<td>150 pts</td>
</tr>
<tr>
<td>Online Exams</td>
<td>4 @ 100 pts</td>
<td>400 pts</td>
</tr>
<tr>
<td>Final Exam</td>
<td>1 @ 300</td>
<td>300 pts</td>
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<tr>
<td><strong>total</strong></td>
<td></td>
<td><strong>1000 pts</strong></td>
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The final grade will be calculated as a percentage of the total possible points. Grades will be assigned as follows: A+ (100-98%), A (97-93%), A- (92-90%), B+ (89-87%), B (86-83%), B- (82-80%), C+ (79-78%), C (77-73%), C- (72-70), D+ (69-68%), D (67-63%), D- (62-60%), F (Below 60%)

**Course Information and Policies**

**Expectations**: The breadth of human anatomy is immense. Once behind, catching up is virtually impossible. Quizzes are posted in series with due dates throughout the semester to encourage students to keep current in their studies. As a graduate course, it is anticipated that students will have a reasonable understanding of basic biological and chemical principles. While the textbook has remedial chapters, under prepared students should plan on spending extra time and effort in these areas.

**Due Dates**: Due dates will be enforced. There will be no opportunity to make up missed quizzes or online exams, and a score of zero will be assessed. Late writing assignments will result in a loss of 10% of the maximum points per day. The final exam must be returned by the due date or a grade of zero will be given.

**Note on Technology**: While not common, problems with technology do happen. This can be caused by instructor error, server crashes, weather-related power outages or problems with Internet connections. Verified problems with course technology will be dealt with fairly. If you find that the Blackboard service is not responding or behaving improperly, notify the instructor immediately. If the problem is reasonably beyond the student's control, an opportunity to reclaim missed points will be provided. *Normally, students will only be permitted a single reset for an exam during a single semester.*

**Other Policies of Interest**

**Exams and Quizzes**: All online evaluations are closed book. It is expected that students will not utilize notes, textbooks, the internet, or any other source of information during an assessment. Note that use of the internet during a quiz or exam has been the most commonly detected source of plagiarism by students.
**Plagiarism:** Presenting someone else's work as your own is a serious academic offense. Any material containing plagiarism will receive a grade of zero. A second offense will result in assignment of an "F" for the course. All instances of academic dishonesty are subject to review by the Biology Graduate Committee.

**Withdraw and Incomplete Grades:** Students should consult the academic calendar for the last day to withdraw from a course which will result in a grade of "W". Instructors are not permitted to withdraw a student; therefore, any student not continuing the class that fails to withdraw will receive a grade of "F". If very unusual circumstances prevent completion of a course (such as major hospitalization), students may request a grade of incomplete. At the sole discretion of the instructor, an "I" may be assigned for the course and the student will be permitted a maximum of one year to complete the coursework. A grade of "I" will not be assigned to a student failing the course on the last day to drop.

**Students with Disabilities:** Students with disabilities are encouraged to contact me for a confidential discussion of their individual needs for academic accommodation. It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students with documented disabilities. To receive accommodation services, students must be registered with UNK Disabilities Services Coordinator, David Brandt, in the Academic Success Office, 163 Memorial Student Affairs Building, 308-865-8214 or by email brandtdl@unk.edu.

**Tentative Schedule**
The sequence of lessons, notes and reading assignments are listed. Sequence and any dates are tentative and subject to change by the instructor. Details of the reading assignments will be given for each chapter (this course will focus on anatomy, but the same text is used for my human physiology course).

<table>
<thead>
<tr>
<th>Week / Date</th>
<th>Topic / Activities / Notes</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 / August 20</td>
<td>Introduction and Syllabus&lt;br&gt;Scope of Human Anatomy&lt;br&gt;General Anatomical Terminology&lt;br&gt;Quiz 1</td>
<td>Chapter 1(pp. 2-19)&lt;br&gt;Chapter 1(pp. 20-22)&lt;br&gt;Atlas A (pp. 29-37)</td>
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<tr>
<td>2 / August 27</td>
<td>Survey of Human Body&lt;br&gt;Quiz 2&lt;br&gt;Integumentary System&lt;br&gt;Micro-Assignment 01&lt;br&gt;Quiz 3</td>
<td>Atlas A (pp. 38-48)&lt;br&gt;Chapter 6 (pp. 188-204)</td>
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<tr>
<td>3 / September 3</td>
<td>Skeletal System I&lt;br&gt;Micro-Assignment 02&lt;br&gt;Labor Day</td>
<td>Chapter 7 (pp. 214-221)&lt;br&gt;Chapter 8 (beginning)</td>
</tr>
<tr>
<td>4 / September 10</td>
<td>Skeletal System II&lt;br&gt;Skeletal System III&lt;br&gt;Micro-Assignment 03&lt;br&gt;Quiz 4&lt;br&gt;Exam 1</td>
<td>Chapter 8 (pp. 242-267)&lt;br&gt;Chapter 8 (pp. 267-280)</td>
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<tr>
<td>5 / September 17</td>
<td>Joints&lt;br&gt;Micro-Assignment 04&lt;br&gt;Quiz 5</td>
<td>Chapter 9 (pp. 286-313)</td>
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<tr>
<td>Date</td>
<td>Topic</td>
<td>Chapters</td>
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| 6 / September 24 | Muscular System I  
Muscular System II | Chapter 10 (pp. 320-327)  
Chapter 10 (pp. 328-348) |
| 7 / October 1  | Muscular System III  
*Micro-Assignment 05,06,07*  
*Quiz 6*  
*Exam 2* | Chapter 10 (pp. 349-380) |
| 8 / October 8  | Nervous System I  
Nervous System II  
*Micro-Assignment 08*  
*Quiz 7* | Chapter 12 (pp.442-453)  
Chapter 13 (pp. 482-509)  
Chapter 14 (pp. 515-537)  
Chapter 14 (pp. 543-559) |
| 9 / October 15 | Endocrine System  
*Micro-Assignment 09*  
*Quiz 8*  
Fall Break | Chapter 17 (pp. 638-658) |
| 10 / October 22 | Sense Organs  
*Micro-Assignment 10*  
*Quiz 9*  
*Exam 3* | Chapter 16 (pp. 587-631) |
| 11 / October 29 | Circulatory System I  
Circulatory System II  
*Micro-Assignment 11*  
*Quiz 10* | Chapter 18 (pp. 684-714)  
Chapter 18 (pp. 720-733)  
Chapter 18 (pp. 736-745)  
Chapter 20 (pp. 756-764)  
Chapter 20 (pp. 776-807) |
| 12 / November 5 | Lymphatic System  
*Quiz 11*  
Respiratory System  
*Micro-Assignment 13*  
*Quiz 12* | Chapter 21 (pp. 816-828)  
Chapter 22 (pp. 864-880) |
| 13 / November 12 | Urinary System  
*Micro-Assignment 14*  
*Quiz 13*  
Digestive System  
*Micro-Assignment 15*  
*Quiz 14*  
*Exam 4* | Chapter 23 (pp. 906-915)  
Chapter 23 (pp. 931-935)  
Chapter 25 (pp. 966-1006) |
| 14 / November 19 | Thanksgiving Break |                            |
| 15 / November 26 | Male Reproductive System  
Female Reproductive System  
*Micro-Assignment 16*  
*Quiz 15* | Chapter 27 (pp. 1048-1067)  
Chapter 28 (pp. 1078-1097) |
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Chapter</th>
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<tbody>
<tr>
<td>16 / December 3</td>
<td>Human Development Micro-Assignment 17 Quiz 16</td>
<td>Chapter 29 (pp. 1118-1147)</td>
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<tr>
<td>17 / December 10-13</td>
<td>Finals Week Final Exam</td>
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