Essential Human Anatomy
BIOL 838, Spring 2018

Instructor
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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. Details of specific anatomical regions will be required.

RECOMMENDATIONS: A good course for students with little knowledge of human anatomy. Also useful for students interested in teaching high school AP courses, community college anatomy and physiology, or needing a continuing education course.

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
Textbook: Saladin, K.S., Anatomy and Physiology: The Unity of Form and Function, 5th Edition, McGraw Hill, Boston, 2009-10. ISBN 978-0-07-352569-3. Note that this is the same textbook I use for the Human Physiological Systems course, and purchasing is highly recommended, especially if you intend to take both courses. Other editions (6th, 7th or newer) likely work fine, but the page numbers may not match.

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: Canvas, an online learning management system (LMS), 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 (Lopermail) and "messages" sent in the Canvas system will be ignored.
Lecture AVIs and Study Notes: Lectures are supplied as HTML5 video that will likely only be compatible with a recent Firefox web browser. Support for mobile devices will be hit or miss, but students will be able to download the video if streaming does not work as anticipated. 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(s). All links and access to course materials will expire shortly after the last day of class.

Legal: The materials on this course website are only for the use of students enrolled in this course for purposes associated with this course and may not be retained or further disseminated. The materials on this course website may be protected by copyright, and any further use of this material may be in violation of federal copyright law.

Grading

Quizzes: Numerous online quizzes are assigned throughout the semester and must be completed by the due date. Each quiz has a time limit.

Micro-Assigned (labs): Students will complete several micro-assigments. 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. All exams are closed book and have a time limit.

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

Tentative Point Distribution: Anticipated assignments with distribution of points for the course. Changes may be made as the discretion of the instructor.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points Each</th>
<th>Total Points</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>15 @ 10 pts</td>
<td>150 pts</td>
</tr>
<tr>
<td>Mini-assignments</td>
<td>15 @ 10 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 determined based on the number of earned points. Percentages are not used when assigning final letter grades for the course. In the event that assignments are changed, the scores will be normalized to 1000 pts (points earned / total possible x 1000). Grades will be assigned as follows:

A+ (1000-990), A (989-960), A- (959-930), B+ (929-900), B (899-870), B- (869-840), C+ (839-810), C (809-780), C- (779-750), D+ (749-720), D (719-690), D- (689-660), F (Below 659)

Course Information and Policies

Expectations: Because students admitted to the graduate program in biology have significant exposure to biology, related disciplines (math, chemistry, physics, etc.) and general education coursework (English, writing, grammar, geography, history, etc.), it is anticipated that previously developed skills and knowledge will be utilized extensively throughout the course and reflected in the student's academic performance. Students are required to maintain a professional and cordial mannerism when communicating with the instructor and other students.

Due Dates: Due dates will be clearly identified on Canvas and strictly enforced. Students are
strongly encouraged to complete assignments several hours (if not days) before due. There will be no
opportunity to make up missed quizzes, assignments or exams, and a score of zero will be assessed.
Assignments submitted by email after the assignment link has expired in Canvas will only be accepted at
the discretion of the instructor. The final exam must be submitted by the due date or a grade of zero will
be given. In the rare instances that material is accepted late, students will be assessed a late penalty
(minimum of 10% for each day late).

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
Canvas 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 may be
provided (see due dates above as they relate to completing tests and assignments well in advance of the
due date). While instructors generally attempt to be helpful with the resolution of computer related
problems, the operation of each student's personal computer is the sole responsibility of the student (i.e.
virus protection, operating system maintenance and configuration, software installation, etc.), and user-
specific issues are normally resolved through interaction with the UNK helpdesk.

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 academic
dishonesty by students. Point challenges will only be considered for 3 days after the due date and must
be well supported by citing sources (short paragraph indicating why the question is mis-marked). Fishing
for points at the end of the semester will not be tolerated or considered for altering the letter grade to
points earned mapping.

Plagiarism and Academic Dishonesty: Presenting someone else's work as your own is a serious
academic offense. Any material containing plagiarism or reflecting academic dishonesty will receive a
grade of zero and result in placing a record of the offense in the department's file. A second offense will
result in assignment of an "F" for the course. All instances of plagiarism or academic dishonesty carry
the risk of referral to the graduate committee, review of the student's file, and potentially expulsion from
the program.

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 unusual circumstances prevent completion of a course (such as major hospitalization,
overseas deployment, etc.), students may request a grade of incomplete. At the sole discretion of the
instructor, an "I" may be assigned for the course, and the the instructor will provide the student with an
enumeration of requirements with a deadline for completing the course. Grades of incomplete are not for
improving course performance and normally will not be considered for students not passing at the time of
the request.

Students with Disabilities or Those Who are Pregnant: It is the policy of the University of
Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students with
documented disabilities or those who are pregnant. To receive accommodation services for a disability,
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 unkdsao@unk.edu. For
those needing accommodation due to pregnancy, you need to visit with Student Health. The following
link provides information for students and faculty regarding pregnancy rights.
Reporting Student Sexual Harassment, Sexual Violence or Sexual Assault: Reporting allegations of rape, domestic violence, dating violence, sexual assault, sexual harassment, and stalking enables the University to promptly provide support to the impacted student(s), and to take appropriate action to prevent a recurrence of such sexual misconduct and protect the campus community. Confidentiality will be respected to the greatest degree possible. Any student who believes she or he may be the victim of sexual misconduct is encouraged to report to one or more of the following resources:

- Local Domestic Violence, Sexual Assault Advocacy Agency 308-237-2599
- Campus Police (or Security) 308-865-8911
- Title IX Coordinator 308-865-8655

Retaliation against the student making the report, whether by students or University employees, will not be tolerated.

If you have questions regarding the information in this email please contact Mary Chinnock Petroski, Chief Compliance Officer (petroskimj@unk.edu or phone 8400).
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>
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</thead>
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| 1 / January 8 | Introduction and Syllabus  
Scope of Human Anatomy  
General Anatomical Terminology  
Quiz 1 | Chapter 1(pp. 2-19)  
Chapter 1(pp. 20-22)  
Atlas A (pp. 29-37) |
| 2 / January 15 | Survey of Human Body  
Quiz 2  
Integumentary System  
Micro-Assignment 01  
Quiz 3 | Atlas A (pp. 38-48)  
Chapter 6 (pp. 188-204) |
| 3 / January 22 | Skeletal System I  
Micro-Assignment 02 | Chapter 7 (pp. 214-221)  
Chapter 8 (beginning) |
| 4 / January 29 | Skeletal System II  
Skeletal System III  
Micro-Assignment 03  
Quiz 4  
Exam I | Chapter 8 (pp. 242-267)  
Chapter 8 (pp. 267-280) |
| 5 / February 5 | Joints  
Micro-Assignment 04  
Quiz 5 | Chapter 9 (pp. 286-313) |
| 6 / February 12 | Muscular System I  
Muscular System II | Chapter 10 (pp. 320-327)  
Chapter 10 (pp. 328-348) |
| 7 / February 19 | Muscular System III  
Micro-Assignment 05,06,07  
Quiz 6  
Exam 2 | Chapter 10 (pp. 349-380) |
| 8 / February 26 | 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 / March 5 | Endocrine System  
Micro-Assignment 09  
Quiz 8 | Chapter 17 (pp. 638-658) |
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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Assignments/Exams</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>10 / March 12</td>
<td>Sense Organs</td>
<td>Micro-Assignment 10</td>
<td>Chapter 16 (pp. 587-631)</td>
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<td>Quiz 9</td>
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<td>Exam 3</td>
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<td>11 / March 19</td>
<td>Spring Break</td>
<td>No new material</td>
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<td>12 / March 26</td>
<td>Circulatory System I</td>
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<td>Chapter 18 (pp. 684-714)</td>
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<tr>
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<td>Circulatory System II</td>
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<td>Chapter 18 (pp. 720-733)</td>
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<td>Micro-Assignment 11</td>
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<td>Chapter 18 (pp. 736-745)</td>
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<td>Quiz 10</td>
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<td>Chapter 20 (pp. 756-764)</td>
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<td>Chapter 20 (pp. 776-807)</td>
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<tr>
<td>13 / April 2</td>
<td>Lymphatic System</td>
<td>Quiz 11</td>
<td>Chapter 21 (pp. 816-828)</td>
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<td>Respiratory System</td>
<td>Quiz 12</td>
<td>Chapter 22 (pp. 864-880)</td>
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<td>14 / April 9</td>
<td>Urinary System</td>
<td>Quiz 13</td>
<td>Chapter 23 (pp. 906-915)</td>
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<td>Digestive System</td>
<td>Chapter 23 (pp. 931-935)</td>
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<td>Micro-Assignment 15</td>
<td>Chapter 25 (pp. 966-1006)</td>
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<td>Quiz 14</td>
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<td>15 / April 16</td>
<td>Male Reproductive System</td>
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<td>Chapter 27 (pp. 1048-1067)</td>
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<td>Female Reproductive System</td>
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<td>Chapter 28 (pp. 1078-1097)</td>
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<td>Micro-Assignment 16</td>
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<td>Quiz 15</td>
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<td>16 / April 23</td>
<td>Review Week</td>
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<td>Last Day of Regular Classes, Friday, April 27</td>
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<td>17 / April 30</td>
<td>Final Exam</td>
<td>Finals Week (4/30-5/3)</td>
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<td>Last day of course is <strong>Thursday</strong>, April 3, 2018</td>
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