Instructor
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Course Description
Human anatomy including essential aspects of functional morphology will be covered. Topics 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 A&P, 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).
4. Students will develop a deeper appreciation for the anatomical sciences through common readings and self-directed exercises.

Course Materials
Textbook: Most materials will be provided electronically. However, students will need a copy of the following book:


Students are encouraged to obtain a used copy if available from their favorite online book vendor (mine was about $10 with free shipping).

Also, it is recommended that students obtain a high quality Anatomy and Physiology textbook. Many good texts are available. I tend to use the following:


Again, I encourage the use of low cost used textbooks, but students are free to get newer editions of just about any Anatomy and Physiology text that they wish.
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.

Digital Imaging Device: Some method of producing digital images may be required for incorporating digital images into assignments. Good solutions include a flatbed scanner, digital camera, etc. I suggest students do 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 course website often for announcements and assignments. In addition, students are required to use and check the email account assigned to them by the university (Lopermail).

Lecture Video and Study Notes: Lectures are supplied as HTML5 video that will be compatible with a reasonably recent version of the 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 written 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

Worksheets: Multiple exercises to encourage consistent engagement in the course and to provide the needed repetition for learning general anatomy. Students will upload a file for grading. Students often use a scan, photographs, doc, pdf, or other software to complete the assignments. In general, I am flexible on the format, provided I can view the student's work.

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

Mini-Assignments: Students will complete several mini-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 or to enhance the understanding of specific concepts in modern anatomical sciences.

Common Readings: Students assess anatomy related topic or topics which may be a textbook, video series, or other information source. Points may (or may not) be divided into separate activities such as quizzes, written summaries, etc.

Online Exams: Multiple time-limited online exams will be given. All exams are closed book and have a time limit. If the exam has a take home component, the permitted use of outside resources will be defined in the instructions.

Final Exam: Students will be provided with the final exam approximately one week before the due date. Late exams will not be accepted. The final exam is comprehensive and may contain any information covered in the course.
**Tentative Point Distribution**: Anticipated assignments with distribution of points for the course. Changes may be made at the discretion of the instructor.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points Each</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worksheets</td>
<td>18 @ 10 pts</td>
<td>180 pts</td>
</tr>
<tr>
<td>Quizzes</td>
<td>18 @ 10 pts</td>
<td>180 pts</td>
</tr>
<tr>
<td>Mini-assignments</td>
<td>11 @ 10 pts</td>
<td>110 pts</td>
</tr>
<tr>
<td>Common Readings</td>
<td>4 @ 20 pts</td>
<td>80 pts</td>
</tr>
<tr>
<td>Online Exams</td>
<td>3 @ 100 pts</td>
<td>300 pts</td>
</tr>
<tr>
<td>Final Exam</td>
<td>1 @ 150</td>
<td>150 pts</td>
</tr>
<tr>
<td><strong>total</strong></td>
<td></td>
<td><strong>1000 pts</strong></td>
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</tbody>
</table>

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), 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, university staff 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. 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 unless specified otherwise. 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. 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 mismarked). Fishing for points at the end of the semester will not be tolerated or considered for altering the points earned to letter grade 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 the potential for expulsion from the university.

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

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 for a disability, students must be registered with the UNK Disabilities Services for Students (DSS) office, 175 Memorial Student Affairs Building, 308-865-8214 or by email unkdso@unk.edu

UNK Statement of Diversity & Inclusion:

UNK stands in solidarity and unity with our students of color, our Latinx and international students, our LGBTQIA+ students and students from other marginalized groups in opposition to racism and prejudice in any form, wherever it may exist. It is the job of institutions of higher education, indeed their duty, to provide a haven for the safe and meaningful exchange of ideas and to support peaceful disagreement and discussion. In our classes, we strive to maintain a positive learning environment based upon open communication and mutual respect. UNK does not discriminate on the basis of race, color, national origin, age, religion, sex, gender, sexual orientation, disability or political affiliation. Respect for the diversity of our backgrounds and varied life experiences is essential to learning from our similarities as well as our differences. The following link provides resources and other information regarding D&I: https://www.unk.edu/about/equity-access-diversity.php

Students Who are Pregnant

It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students who are pregnant. To receive accommodation services due to pregnancy, students must contact Cindy Ference in Student Health, 308-865-8219. The following link provides information for students and faculty regarding pregnancy rights. http://www.nwlc.org/resource/pregnant-and-parenting-students-rights-faqs-college-and-graduate-students

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).
Tentative Schedule
Sequence and dates are tentative and subject to change by the instructor. Details of the readings and other assignments will be posted on the LMS (Canvas).

<table>
<thead>
<tr>
<th>Week / Date</th>
<th>Topics / Notes</th>
<th>Assignments</th>
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| 1 / August 23     | Introduction  
Anatomical Terminology  
Methods and Medical Imaging | Worksheet 01  
Quiz 01                                       |
| 2 / August 30     | Types of Tissues  
Integumentary System | Worksheet 02  
Quiz 02  
mA (contrast agents, 01) |
| 3 / September 6   | Skeletal System                                 | Worksheet 03  
Quiz 03  
Reading (Roach, 01) |
| 4 / September 13  | Skeletal System                                 | Worksheet 04  
Quiz 04  
mA (skeletal system, 02) |
| 5 / September 20  | Joints                                         | Worksheet 05  
Quiz 05  
mA (joints, 03)  
**Exam I**          |
| 6 / September 27  | Muscular System                                 | Worksheet 06  
Quiz 06  
Reading (Roach, 02) |
| 7 / October 4     | Muscular System                                 | Worksheet 07  
Quiz 07  
mA (muscles, 04) |
| 8 / October 11    | Nervous System                                  | Worksheet 08  
Quiz 08  
Reading (Roach, 03) |
| 9 / October 18    | Nervous System                                  | Worksheet 09  
Quiz 09  
mA (nervous system, 05) |
| 10 / October 25   | Endocrine System                                | Worksheet 10  
Quiz 10  
mA (endocrine system, 06)  
**Exam II**          |
| 11 / November 1   | Cardiovascular System                           | Worksheet 11  
Quiz 11  
mA (cardiovascular, 07)  
Reading (Roach, 04) |
<table>
<thead>
<tr>
<th>Date</th>
<th>System</th>
<th>Assignments</th>
</tr>
</thead>
</table>
| 12 / November 8   | Cardiovascular System         | Worksheet 12  
                             | Quiz 12  
                             | mA (cardiovascular, 08)             |
| 13 / November 15  | Lymphatic System  
                             | Respiratory System  
                             | Worksheet 13  
                             | Quiz 13  
                             | Worksheet 14  
                             | Quiz 14  
                             | mA (respiratory / lymphatic, 09) |
| 14 / November 22  | **Thanksgiving Break**, no new material |                                                                             |
| 15 / November 29  | Digestive System  
                             | Urinary System  
                             | Worksheet 15  
                             | Quiz 15  
                             | Worksheet 16  
                             | Quiz 16  
                             | mA (digestion / urinary, 10)  
                             | **Exam III**                   |
| 16 / December 6   | Reproductive Systems  
                             | Human Development  
                             | Worksheet 17  
                             | Quiz 17  
                             | Worksheet 18  
                             | Quiz 18  
                             | mA (reproductive systems, 11) |
| 15 / December 13  | **Finals Week** (12/13 - 12/16) | **Final Exam**                                                              |
| **Last Day of Course**  
December 16th | Note this is on a **Thursday** afternoon. Course closes and becomes unavailable a few days later. |                                                                             |

Q=quiz, W=worksheet, mA=miniAssignment, CR (Roach’s book)=common reading