

**Western University
School of Health Studies
Systemic and Functional Anatomy**

Instructor: Dalia Hasan, MD
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Office Hours: By appointment
Course code: HS 2330A
Program: Nursing

Date & location:

Lecture – Friday 12:30 – 3:20 pm, HSB 240
Lab – Tuesday by section (1:30 – 2:20;
2:30 – 3:20; 3:30 – 4:20; 4:30 – 5:20) HSB 322

Teaching Assistants:

Rebecca Horst – rhorst3@uwo.ca
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Antirequisites: Anatomy and Cell

Biology 2221, 3319, Kin 2222A/B

Prerequisites: Grade 12U Biology
or equivalent is strongly recommended

Course Description:

Systemic Approach to Functional Anatomy is an introductory course designed to explore anatomical structure and function of the human body. Emphasis will be placed on clinical examples related to nursing.

The course will provide the student with an understanding of systemic anatomy and a working knowledge of the integration of the human body's major physiological systems. At the end of this course each student should know all the major bones, muscles, nerves, organs, and vessels of the body, by name, location, and function. The spirit of this course is to foster learning, critical thinking, active questioning, and an appreciation for health and disease from a gross anatomical perspective.

Learning Outcomes:

Upon completion of this course, students will correctly be able to:

1. Describe the basic function and structure of cells and tissue types in the human body.
2. Explain the structure and function of major body systems.
3. Identify major structures within each system and the characteristic identifying features of these structures.
4. Use land marking strategies to identify gross structures relative to one another in the body including bones, muscles, blood vessels, organs, and nerves.
5. Compare and contrast muscle groups based on function and innervation.
6. Relate material learned in class to clinical practice.

Recommended Textbook:

Principles of Human Anatomy – 13th Edition, Tortora, G.J. & Neilsen, M.T. John Wiley & Sons Inc. ISBN: 978-1-118-34499-6

The course textbook is available at the UWO bookstore. There will also be several texts on 1-day reserve at the Allyn Betty Taylor Library. Ask for reading material under HS 2330/2300.

The textbook is meant to supplement lecture material. All relevant (and examinable) material will be taught in class and the textbook can be used as an additional resource to further clarify specific concepts. As such, the textbook is strongly recommended.

Additional reference books: Lecture slides will be posted before lecture. If you are a visual learner, an anatomy atlas may be beneficial to you. Recommended are any of:

- Netter's Atlas of Human Anatomy
- Thieme's Atlas of Anatomy
- Barron's The Anatomy Coloring Book

Advice for Success in this Course

Anatomy is like learning a new language, and as such requires discipline and practice. This course is a challenging lower level course due to the volume of material students are expected to know. Students are strongly encouraged to attend all lectures, as presentation slides alone cannot explain complex concepts that will be covered. By not attending lecture, students will only receive a very superficial understanding of the material covered. Below are some strategies to help you succeed in HS 2330A.

1. Read this course syllabus in its entirety and understand the policies; ☐
2. Attend class regularly & take notes. ☐
3. Read your lecture notes before class, this prepares you to contribute to in-class activities and discussions. You and your fellow classmates ☐can learn a lot from each other.
4. Review the learning objectives posted for each lecture.
5. Attend labs, and work through the lab assignments thoughtfully. Lab time is limited. You will optimize your time if you learn the material ahead of the lab. Partner up and test each other with the models.
6. Take advantage of the help available & ask questions (lectures, labs, forums). ☐ If you don't understand something, chances are other students don't either. ☐
7. Teach a friend. By teaching a concept to someone who does not have any education ☐in anatomy, you can evaluate what you know and what you need to study more. ☐
8. This course is not an easy course. It is important to keep up with the labs and course material so you don't ☐fall behind. Repetition is the key to success in this course.

Course Evaluation:

Progress Quizzes	Sept. 20, 27; Oct. 4, 11, 18, 25; Nov. 1, 8, 15, 22, 29	30%
Case Studies	October 7; November 18	25%
Bell Ringer	December 6	10%
Final Exam	TBD	35%

(Between December 10 – 21, do not book travel during this time)

Progress Quizzes: At the beginning of each lab (except for the first lab) there will be a 10-minute progress quiz. There will be eleven weekly in-lab quizzes. These quizzes will be accessed through OWL and as such will require the use of an internet-capable device. Consequently, *you must bring a laptop or tablet to each lab*. Cheating of any kind will not be tolerated.

The quizzes will evaluate lecture material taught in the prior class only. Each quiz is worth 3% of your final grade. The lowest quiz score will be dropped. If you have to miss class for any reason, that will be considered your dropped quiz. Makeup quizzes will not be given for any reason.

Case Studies: Groups of 6 students will work on mini clinical case studies. Case details and assignment descriptions will be provided on OWL. There will be one submission per group and the professor will select groups. Evaluations of the group members will be filled out by the group members to ensure the work was equally distributed and completed.

Bell Ringer: The bell ringer lab exam is a cumulative exam and will cover all lecture material from the beginning of the course (except for the reproductive system) – however since it is a lab exam, your ability to apply your knowledge from lecture to the identification of specimens is necessary. Your attendance and hard work in lab is crucial for your success on this exam.

Final Examination: The final examination will cover the entire course material. Lecture and lab material will be examinable. The final exam will be composed of various styles of multiple-choice questions.

Rounding of Grades and Re-Weighting of Exams:

This is a practice (for example, bumping a 79 to 80%) some students request. The practice will not occur in this course. The mark attained is the mark you achieved and the mark assigned; there is no rounding to the next grade level. There is also no re-weighting of exams. Such requests degrade my experience as your professor and your experience as a student. We both have an appreciation of high standards.

Lecture Schedule:

Term: September 9 – December 2, 2016

Lecture Date	Topic	Readings	Important Dates
September 9, 2016	Introduction to Anatomy: Course Welcome, Anatomical Terminology, Basic Cells and Tissues	Chapters 1 - 3	
September 16, 2016	The Skeletal System: The Axial & Appendicular Skeleton, Articulations	Chapters 6 – 9	
September 23, 2016	The Muscular System: Muscle Classification, Axial Muscles	Chapters 10 – 11	
September 30, 2016	Appendicular Muscles: Upper and Lower Limbs	Chapter 11	
October 7, 2016	The Nervous System: CNS & PNS	Chapters 16 – 20	Case Study # 1 Due
October 14, 2016	Special Senses The Endocrine System: Glands & Hormones	Chapter 21 – 22	
October 21, 2016	The Cardiovascular System: The Heart & Blood	Chapters 12 – 13	
October 28, 2016	Fall Study Break	NO CLASS	
November 4, 2016	Blood Vessels of the Body The Lymphatic System	Chapter 14	
November 11, 2016	The Respiratory System: Conduction & Respiratory	Chapters 15, 23	
November 18, 2016	The Digestive System: Mouth to Anus	Chapter 24	Case Study # 2 Due
November 25, 2016	The Urinary System: Kidneys, Ureters, Bladder & Urethra	Chapter 25	
December 2, 2016	The Reproductive System: Male & Female Reproductive Systems	Chapter 26	
December 9, 2016	December Study Days	NO CLASS	

Lab Schedule:

Term: September 13 – December 6, 2016

Lab Date	Topic	Important Dates
September 13, 2016	Introduction to Anatomy: Anatomical Terminology, Basic Cells and Tissues	-
September 20, 2016	The Skeletal System: The Axial & Appendicular Skeleton, Articulations	*in-lab quiz (3%)
September 27, 2016	The Muscular System: Muscle Classification, Axial Muscles	*in-lab quiz (3%)
October 4, 2016	Appendicular Muscles: Upper and Lower Limbs	*in-lab quiz (3%)
October 11, 2016	The Nervous System: CNS & PNS	*in-lab quiz (3%)
October 18, 2016	Special Senses The Endocrine System: Glands & Hormones	*in-lab quiz (3%)
October 25, 2016	The Cardiovascular System: The Heart	*in-lab quiz (3%)
November 1, 2016	Blood Vessels of the Body	*in-lab quiz (3%)
November 8, 2016	The Respiratory System: Conduction & Respiratory	*in-lab quiz (3%)
November 15, 2016	The Digestive System: Mouth to Anus	*in-lab quiz (3%)
November 22, 2016	The Urinary System: Kidneys, Ureters, Bladder & Urethra	*in-lab quiz (3%)
November 29, 2016	Review	*in-lab quiz (3%)
December 6, 2016	Bell Ringer Exam (10%)	

Lab Activities:

There will be one lab prior to each lecture (except for the first week of lecture). The lab will cover the material from the previous lecture. These labs will serve to further your understanding of the material and concepts discussed in lecture. Students are expected to attend all laboratory sessions. Lab handouts will be provided for all laboratory sessions and will be posted to OWL prior to each session. The handouts will cover the expectations of that specific lab, as well as having questions/activities/terminology that will help guide you through the material and allow you to connect the lab material to the content discussed in class.

Course specific policies

Course Website (OWL Sakai)

The course website (<http://owl.uwo.ca>, "HS 2330A") will be our primary method of communication with students. This course site is shared with all students registered in the course. It is your responsibility to check the website frequently. All important information (syllabus, lecture and lab material, assigned readings, exam details, printouts, announcements, etc.) will be posted on the website. Lecture slides will be posted in .pdf format, 1 slide per page only (which may be modified under the printer settings). I will do my best to upload the lecture slides one week in advance and certainly no later than 11:59 pm the night before lecture. Alternative file formats will not be available. ☒

All students in this course need to use OWL to access resources used in this course. It is expected that students bring the slides to class/lab to take notes and make annotations. Additionally, grades will only be provided to you through the course website.

OWL is an electronic shared space that will be used frequently throughout the course for a variety of purposes. Please interact respectfully on this shared e-space. The privilege of contributing to the site can be revoked if deemed necessary.

Please contact Instructional Technology Services (ITS) for difficulties in accessing OWL Sakai at (519) 661-3800, or <https://servlet.uwo.ca:8081/helpdesk/index.jsp>.

Lecture Attendance

You are expected to attend every class, as some material that is covered during lecture (including videos and other notes and discussions) will not be in the course notes and will not be posted on the course website. Material not included in the lecture slides will not be on the exam, however they will serve to clarify specific concepts. I will post an announcement on OWL if an additional printout is needed (there is a folder on the left menu on OWL) for an active learning activity which will be performed in class.

Use of Laptops During Class

The use of laptops is permitted for use in the classroom for note-taking purposes only. Students may be asked to close laptops or to leave the classroom if their activities are disruptive to the instructor and/or other students.

Use of Recording Devices and Cameras During Class

Audio or video recordings, and photographing lectures is not permitted. According to intellectual property laws, not acquiring permission constitutes stealing. ☒

Contact/Questions

All questions regarding course content should be posted on OWL Sakai forums. While your assigned TA should be your 'first line' for asking questions related to the course, forums (discussion boards) on OWL will also be used to answer student questions. The forums will be set up to include a separate space for questions and discussion related to: (1) general discussion; (2) course content; (3) exam related; (4) readings; (5) study groups/note sharing; and (6) lab related. You have the ability to edit and delete your own posts. The instructor and TAs can also delete posts that are deemed to be inappropriate.

In all of the above communication tools and any time you are interacting with others on our shared OWL website or via e-mail, *please be mindful of 'e-etiquette'*. It is expected that you will properly address the person you are emailing, and use proper grammar and punctuation when posting and e-mailing. You are also expected to respect your peers, TAs, and instructor in any discussion/forum. Students who do not act accordingly have the potential of losing website privileges.

E-mail

The TAs and myself are happy to answer your questions via e-mail, but please limit your e-mail questions to administrative matters only. Questions on course content will not typically be answered, as they should be: (a) raised during lectures, (b) asked during scheduled meetings with myself or your assigned TA, or (c) posted to an online discussion forum. Please note that you must use your UWO email address for all correspondence regarding this course.

Note that I will not answer e-mails or forum questions within the 24-hour period before the exams.

University Wide Policies

Student Code of Conduct

The purpose of the Code of Student Conduct is to define the general standard of conduct expected of students registered at The University of Western Ontario, provide examples of behaviour that constitutes a breach of this standard of conduct, provide examples of sanctions that may be imposed, and set out the disciplinary procedures that the University will follow. For more information, visit <http://www.uwo.ca/univsec/pdf/board/code.pdf>.

Accommodation for Medical Illness or Non-Medical Absences

The University recognizes that a student's ability to meet his/her academic responsibilities may, on occasion, be impaired by medical illness. Illness may be acute (short term), or it may be chronic (long term), or chronic with acute episodes. The University further recognizes that medical situations are deeply personal and respects the need for privacy and confidentiality in these matters. However, in order to ensure fairness and consistency for all students, academic accommodation for work representing 10% or more of the student's overall grade in the course shall be granted only in those cases where there is documentation indicating that the student was seriously affected by illness and could not reasonably be expected to meet his/her academic responsibilities - <http://www.westerncalendar.uwo.ca/2016/pg117.html>

A UWO Student Medical Certificate (SMC) is required where a student is seeking academic accommodation. This documentation should be obtained at the time of the initial consultation with the physician or walk-in clinic. An SMC can be downloaded under the Medical Documentation heading of the following website:
http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf

Documentation is required for non-medical absences where the course work missed is more than 10% of the overall grade. Students may contact their Faculty Academic Counselling Office for what documentation is needed.

Whenever possible, students who require academic accommodation should provide notification and documentation in advance of due dates, examinations, etc. Students must follow up with their professors and their Academic Counselling office in a timely manner. Documentation for any request for accommodation shall be submitted, as soon as possible, to the appropriate Academic Counselling Office of the student's Faculty of registration. For BHSc students, you may go to the School of Health Studies Office in HSB room 222.

Scholastic Offences

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following website:

http://uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf .

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).

During tests/exams, proctors will inspect all personal belongings on your desk (and even your baseball cap if you are wearing one). If any items are discovered that are not permitted (e.g. cell phone, or notes) they will be confiscated and the incident will be officially reported as an academic offence. Proctors have the discretion to move students between desks during the Tests or Exam periods.

Additionally, computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

Support Services

There are various support services around campus and these include, but are not limited to:

1. Student Development Centre: Learning-skills counsellors at the Student Development Centre (<http://sdc.uwo.ca>) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.
2. Student Health: Students who are in emotional/mental distress should refer to Mental Health@Western (http://www.health.uwo.ca/mental_health) for a complete list of options about how to obtain help. Other health services can be accessed here: <http://www.uwo.ca/health/services/students/shs/index.html>
3. Registrar's Office: The website for Registrarial Services is <http://www.registrar.uwo.ca> .
4. Additional student-run support services are offered by the USC, <http://westernusc.ca/services> .
5. Ombuds Office: <http://www.uwo.ca/ombuds/>