

Health
Sciences



Western
HealthSciences

2330B

**SYSTEMIC APPROACH
TO FUNCTIONAL
ANATOMY**

Course Instructor: Daniel Belliveau, Ph.D.

School of Health Studies
Faculty of Health Sciences

2014

HS 2330B

SYSTEMIC APPROACH TO FUNCTIONAL ANATOMY

The prerequisite(s) for this course is/are OAC Biology, or an equivalent course. If you do not have this/these prerequisite(s) (or special permission to take the course from your Dean), you are not eligible for enrollment and must drop it immediately in order to make room for students who have the appropriate prerequisite(s). You will receive no adjustment to your fees in the event that you are administratively dropped from a course for failing to have the necessary prerequisites. Taking a course without the prerequisite(s) is not grounds for appeal.

January to April, 2014

COURSE OUTLINE

THE HUMAN BODY: A gross anatomical description of the systemic structure and function of the human body. Emphasis will be placed on clinical nursing applications. The impact of disease and/or trauma to the various organ systems will be discussed and related to the relevant anatomy.

There are 3 lecture hours per week. (**Thursday 1:30 PM – 2:20 PM and Friday 12:30 PM – 2:20 PM; Health Sciences Building – room 35**). There will be several routine assessments during the course consisting of multiple-choice questions, K-type (multiple-multiple) and diagrams, completed by each student during in-class time. The course has one final cumulative examination. There is a lab tutorial with case studies and in-lab quizzes. The routine assessments are designed to encourage regular review and should be used as a way to keep up with the material.

COURSE OBJECTIVE

To provide a basic understanding of human gross anatomy and a working knowledge of the integration of the major systems. At the end of this course each student should know all the major bones, muscles, nerves, and blood vessels of the body, by name, location, function and how each structure works with other body systems. Each student should also know the major structures of the organ systems, their physiological significance and how they interact with other body systems. The spirit of this course is to foster learning, critical thinking, and an appreciation for health and disease from a gross anatomical perspective.

COURSE ADMINISTRATION

OFFICE HOURS AND LOCATION

Health Sciences Building, room 221

Ext. 88235

Monday 1:30 – 4:00 OR by appointment

Due to the nature of the professoriate, there are times when unforeseen circumstances may prevent me from being present during scheduled office hours. I am always interested in hearing from students so feel free to contact me with some potential meetings times and I will respond with a mutually suitable date and time.

COURSE CONTACT

Course E-mail address: use the web site mail for course related questions. Anything of a sensitive nature may be addressed to the instructor's personal e-mail (dbellive@uwo.ca). Responses to inquiries via the web site email are sent to a mailbox on the web site and NOT to your personal account. Some external email services may encounter SPAM blocking or filtering. Important and timely information may not get to you if you are using another email service.

Web site address: <https://owl.uwo.ca/portal> Log onto OWL using your user name and password. You must be registered in this course to have access to the site and you must have an account established with UWO. All course-related materials are delivered through OWL.

EXAMINATIONS

The course has one final examination that will take place during the University scheduled final examination period. There will be several in-class quizzes, two case study reports and in-lab assessments. Please be aware that completion of the teaching material and the examination may be close together so it is important to keep up with the lectures.

MAKE-UP EXAMINATIONS

Only under exceptional circumstances will permission be granted for writing an exam on an alternate date (legitimate medical, religious or academic reasons (e.g. varsity sport athlete)). If the exam was missed due to illness, **proper documentation** must be provided to the School office (academic counselor) as soon as physically possible (see university policies below for further instruction). You must contact me, your course instructor that you have missed the exam. ***If approved, written makeup examinations will consist of short and long answer questions, case studies and image-based questions based on anatomical and clinical material from lectures.***

System Review quizzes offered through OWL **cannot be made up**. OWL quizzes that are missed for legitimate reasons will have their weight redistributed to the final exam.

<u>GRADING:</u>	Progress Quizzes	30%	Four in-class quizzes will take place at regular intervals (approximately 2 weeks) during the term. Each quiz is valued at 7.5% for a total of 30% of the course grade. These quizzes are not cumulative and cover material between quizzes. The quiz consists of 20 questions and will be delivered at the beginning of class.
	Case Studies	20%	Groups of 4-6 students will work on mini clinical case studies. Case details and assignment description will be provided in OWL. There will be one submission per group and groups will be selected by the professor. All members of the group will receive the same grade. See the course calendar for specific due dates.
	Lab Module tests	15%	The labs will review the surface and gross cadaveric anatomy of various regions of the body and clinical significance will be emphasized. These sessions are intended to reinforce the learning experienced in the classroom. Three in-lab tests will take place during the term and may be presented either as a multiple choice or bell-ringer style fill-in-the-blank exam.
	Final Examination	35%	The final examination will cover the entire course. Lecture material will be exclusively tested however it is reinforced by what was learned during the labs. The exam will consist of various styles of multiple choice exam as seen during the in-class quizzes.

ROUNDING OF GRADES

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. Such requests degrade my experience as your professor and your experience as a student. We both have an appreciation of high standards

EXPECTATIONS

You can expect me to be on time, answer your questions to the best of my ability, start class on time, and end class on time. I will arrive in the classroom 10 minutes prior to class time to field questions before the lecture. Class will begin promptly and end with sufficient time to exit the classroom and make your way to your next class. I may not know the answer to every one of your questions. I will however do my best to obtain an answer and discuss it at the next lecture.

I expect you to be on time for class, respect the instructor and your classmates when sharing an idea in class, and listen without disturbing others in class. In this course, I *welcome* you to use your laptop or tablet computers to take notes. However, disruption caused by your technology *will no be tolerated* so please set your phones to work in quiet mode. I *do not condone* surfing the web, social media or other non-academic use while in class. It is disrespectful to me, your instructor, and even more so to your peers sitting around you who may be distracted by your actions. Due to the large capacity of the lecture hall, it is imperative that students enter and exit the room in a timely fashion so that our class and subsequent classes can be started on time.

THE TEXTBOOK

Recommended Textbook

Tortora, G.J. and Nielsen, M.T. Principles of Human Anatomy. (12th ed.) Wiley: Hoboken, NJ. 2013.

Alternative Textbooks

Earlier editions of Tortora, G.J. and Nielsen, M.T. Principles of Human Anatomy. Wiley: Hoboken, NJ.

Recommended Supplemental Material

LearnSmart Advantage Anatomy learning aid. McGraw-Hill Ryerson. **ISBN: 9781259102295**
(more on this tool in class notes)

Supplemental Material

Should you find the material difficult, study guides such as colouring books and atlases may be of assistance. The bookstore carries a variety of books of this nature. Some possibilities include:

Krieger, P.A. A Visual Analogy Guide to Human Anatomy. (3rd ed.) Morton: Englewood, CO. 2013.

Kapit, W. and L.M. Elson. The Anatomy Coloring Book. (4th ed.) Pearson: San Francisco, CA. 2014.

Hull, K.L. Coloring Atlas of the Human Body. Lippincott Williams and Wilkins: Baltimore, MD. 2010.

YOU ARE NOT REQUIRED TO KNOW ALL THE DETAILS IN THE TEXT. USE THE TEXT AS A REFERENCE AND REVIEW GUIDE. CONCENTRATE ON THE MATERIAL PERTAINING TO THE LECTURES AND WEB POSTINGS, UNLESS OTHERWISE SPECIFIED (e.g. A SECTION WITHIN A CHAPTER MAY BE ASSIGNED FOR READING). MANY OF THE DIAGRAMS USED IN CLASS ARE FROM THE TEXT, SO IT WILL BE A VALUABLE TOOL. THE QUESTIONS AT THE END OF EACH CHAPTER IN THE TEXT, ARE A GOOD EXAMPLE OF THE TYPE OF MULTIPLE CHOICE QUESTIONS TO EXPECT ON THE QUIZZES AND FINAL. THERE IS NO DATA BANK OF QUESTIONS IN THE LIBRARY

UNIVERSITY 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/board/code.pdf>

ENGLISH PROFICIENCY FOR THE ASSIGNMENT OF GRADES

Visit the website <http://www.uwo.ca/univsec/handbook/exam/english.pdf>

ACCOMMODATION FOR MEDICAL ILLNESS OR NON-MEDICAL ABSENCES

http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf

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.

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: <https://studentservices.uwo.ca/secure/index.cfm>.

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://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf

Additionally,

1. 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>).
2. 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 -- <http://www.sdc.uwo.ca/ssd/>
2. Student Health -- <http://www.shs.uwo.ca/student/studenthealthservices.html>
3. Registrar's Office -- <http://www.registrar.uwo.ca/>
4. Ombuds Office -- <http://www.uwo.ca/ombuds/>