

**Faculty of Health Science  
Kin 2222A/HS2300A  
Sept – Dec 2010**

**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.*

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**COURSE OUTLINE**

**COURSE OBJECTIVE**

To provide an understanding of human gross 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, and vessels of the body, by name, location, and function. Each student will also understand the three components of the cardiovascular system: the blood, the heart, and vasculature system, its physiological significance and how each component interacts with the major organ systems listed above. 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.

**COURSE DESCRIPTION**

The course is designed to provide the student with a systemic description of the anatomical structure and function of the human body. This course describes the gross anatomy of the major systems, with emphasis on movement and locomotion as it pertains to the musculoskeletal, cardiovascular, and nervous systems. The other systems of the human body, namely digestive, respiratory, reproductive, urinary, will be discussed with respect to how they (the systems) relate to the skeletal, muscular and cardiovascular systems. In addition to studying the gross features of the human body, we will also discuss selected physiological and histological aspects and relate this to the hierarchy of organization that occurs in the human body.

## LECTURES

There are 3 lecture hours per week: Tuesday 8:30-9:30am and Thursday 8:30-10:30am in North Campus Building 101 (NCB101) 📍 **You need to come to lecture to learn the material.** Many diagrams and discussions will be used in class to illustrate and integrate the material. Each lecture will be a multimedia presentation.

## LECTURE TECHNOLOGY

### Notes

In order to aid you with note taking, a “skeleton” version of the lecture will be available in PDF format for downloading on the UWO Web CT website <http://webct.uwo.ca/> prior to lecture. Although the notes are in colour, quick use of a pencil crayon or highlighter will suffice after printing. A free version of Adobe Acrobat to view PDF files accessed at [www.adobe.com/](http://www.adobe.com/). Mac users do not require Adobe to read PDF files.

📍 **Use the notes as a guide to direct your study...if I concentrate on it in the notes and/or lecture, it's probably important!**

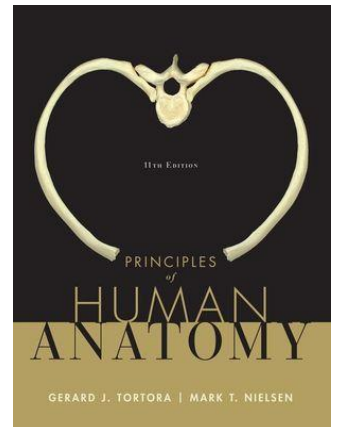
## TEXT

The recommended textbook:

Tortora, G.J., Neilsen M.T. Principles of Human Anatomy (11th ed.), John Wiley & Sons, Inc. . ISBN 978-0-471-78931-4.

This text is available at the [UWO Bookstore](#) for ~150.00. For those students who are visual learners, extra resources may be used as a supplement to the text. Good resources are available at the UWO bookstore include anatomy colouring books and various atlases. See [helpful aids](#) at the end of this syllabus.

📍 **There are a few current texts on 2-hour reserve at the Allyn and Betty Taylor library. Just ask for reading material under HS 2300/KIN2222).**



## ANATATORIUM

A one-hour weekly laboratory is mandatory for all students in this course. These labs will take place in the **Anatatorium** (HSB 322). Laboratories, discussions, and integration of lecture material in this laboratory will expand your functional knowledge of anatomy.

## INSTRUCTOR


**Dr. Jamie Melling PhD**  
HSB 221  
*Office Hours: TBA*

## COURSE COMMUNICATION

Please use the [WebCT discussion boards](#) for course related questions. This method also allows each of you to see how others are thinking about anatomy and you then begin to learn from each other. If you wish to speak to me, please send an email to my WebCT address.

## COURSE WEB SITE

This website is **THE** source for accurate and immediate information concerning all aspects of the course. As mentioned [above](#), you can access class notes here but it is much more. All class announcements, important calendar events, lab signups, discussion boards, etc. will be listed here at your fingertips. To get your webct go to <https://webct.uwo.ca>, log on to "My Webct" with your UWO user name and password. You **must** be registered in this course to have access to the site and you **must** have a UWO account and password established. This site will not work with any other password or account (ie your hotmail, yahoo, etc.). If you have forgotten your UWO username and password it may be retrieved/changed at Information Technology Services online at [www.uwo.ca/its/accounting/StudentForm\\_new.html](http://www.uwo.ca/its/accounting/StudentForm_new.html). Any concerns about WebCT access should be directed to ITS.

Technical issues regarding WebCT, downloading notes, printing etc. should be addressed on the discussion board if you can. If this is impossible, call or visit the ITS helpdesk.  **You may not get full advantage of WebCT unless you follow their instructions carefully (for example browser features like pop-up blockers render ~50% of it's services, useless)**

## GRADING

**Examinations 80%:** Your exams will consist of two term tests.

**Midterm I - 40%**

TBA

**Midterm II – 40%**

Final Examination Period TBA, 2009

 \* **Exams are not cumulative therefore consider each exam a midterm test.**


**Anatatorium Labs 20%:**

**Final Bell Ringer Exam – 20% of Final mark.**  
(Final Week of Class in the Anatatorium)

 \* **Labs are cumulative; it's the nature of anatomy!**

**Make-up Examinations:** You are entitled to reschedule an exam for legitimate conflict due to medical, religious, or compassionate reasons within a reasonable time allowance. It is **your** responsibility to provide **appropriate documentation** to the Undergraduate office, in support of a make-up request. Similarly, final exam conflicts **MUST** be made through the Undergraduate office and documentation will be required.

If you miss your bellringer examination, with appropriate documentation, you are entitled to write a make up. *The make up occurs at the end of the following term.*

 Please note that birthdays, job conflicts, flight-bookings, concerts, going home for the weekend etc. **DO NOT** constitute legitimate reasons according to UWO or my policies. The make-up will be scheduled within a few days of the originally scheduled exam.

### **Western Medical Accommodation Policy (Medical Notes)**

In May, 2008, The University of Western Ontario's Senate approved a new medical note policy, which affects all students. The following is an outline of that policy. For more detailed information and forms, please visit

<https://studentservices.uwo.ca/secure/index.cfm>, and for further policy information please visit [http://www.uwo.ca/univsec/handbook/appeals/accommodation\\_medical.pdf](http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf)

Documentation from Family Physicians and Walk-In Clinics: A *Western 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>. Hard copies are available from the student's home Faculty Academic Counselling Service.

Documentation from Student Health Services: Students obtaining documentation from Student Health Services should sign a "release of information." This form authorizes Student Health Services to provide information to the student's home Faculty. Release of information forms are available from, and can be arranged through, the student's home Faculty Academic Counselling Service.

Documentation from Hospital Urgent Care Centres or Emergency Departments: Students should request that an SMC\* be filled out. Students may bring this form with them, or request alternative Emergency Department documentation. Documentation should be secured at the time of the initial visit to the Emergency Department. Where it is not possible for a student to have an SMC\* completed by the attending physician, the student must request documentation sufficient to demonstrate that his/her ability to meet his/her academic responsibilities was seriously affected.

\*To print or see an example of the Western Student Medical Certificate (SMC) please visit

<https://studentservices.uwo.ca/secure/index.cfm> and click on 'Student Medical Certificate.pdf'.

## HELPFUL AIDS

**Twietmeyer, A. Coloring Guide to Human Anatomy(3<sup>rd</sup> ed), LWW, 2001.ISBN 0781730422**

*I used a similar one in my undergrad too, it's not bad but don't spend tonnes of time on picking your colours!*

**A.D.A.M Interactive Anatomy Student Package, a CD-ROM packaged with Lafferty and Panella's Lab Guide**

*This software has been around for a long time, it's pretty cool. Check it out:*

**Rohen, Lütjen-Drecoll, Romrell Color Atlas of Anatomy (5<sup>th</sup> ed) LWW, ISBN 0-7817-3194-1**

*This is my recommended atlas! It is awesome colour photos of dissections and it is set up such that you can test yourself with identification quite easily with lined paper or a Post-It Note. Our library does have copies!*

** Gray, Grant, Moore, and Netter are amongst a plethora of authors who are all famous anatomists who have excellent textbooks for the study of gross anatomy.**

## Links

Great cross section library at the Virtual Hospital

<http://www.vh.org/adult/provider/anatomy/HumanAnatomy/1Section/Top.html>

An extensive set of images from the University of Michigan

[http://www.med.umich.edu/lrc/coursepages/M1/anatomy/html/atlas/atlas\\_index.html](http://www.med.umich.edu/lrc/coursepages/M1/anatomy/html/atlas/atlas_index.html)

Our tax dollars provide a wide-ranging site with lots o' links

[www.canadian-health-network.ca](http://www.canadian-health-network.ca)

Clever people at the University of Washington has a digital anatomists project

<http://www9.biostr.washington.edu/da.html>

Neat software can view inside the body from a Harvard point of view

<http://splweb.bwh.harvard.edu:8000/pages/papers/AnatomyBrowser/current/>

The list is endless really, search for anatomy atlas in your favourite search engine and enlighten yourself.


## PLAGIARISM

Students must write their exams independently. Whenever students take an idea or a passage from another author, they must acknowledge their debt both by using quotation

marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the current Academic Calendar).

Plagiarism Checking: The University of Western Ontario uses Turnitin software for plagiarism checking. Students may be required to submit their written work in electronic form for plagiarism checking.

## **CHEATING**

 **You will be caught. It will be BAD.** The Director and Dean will deal with your case directly; the minimum penalty will be a zero on the exam. Don't do it, you are only setting yourself up for misery.

## **ROUNDING OF GRADES (when 79 ≠ 80 )**

This is a practice some of you have learned from people with misplaced concerns. **The practice will not occur here.** The edges of this course are clear and sharp. The mark attained is the mark assigned; there is no rounding to the next grade level. Please don't ask us to do this for you degrade our experience as your professors and your experience as a student. We all have an appreciation of high standards, let's keep them real.