

Health  
Sciences

3300A



Kinesiology 3372A

# **ANATOMY OF THE HUMAN BODY – PART II**

Course Coordinator: Daniel Belliveau, Ph.D.

School of Health Studies  
Faculty of Health Sciences

Department of Anatomy & Cell Biology  
Schulich School of Medicine & Dentistry

2010

## HS 3300A / KIN 3372A

### ANATOMY OF THE HUMAN BODY: A DESCRIPTION OF SYSTEMIC STRUCTURE AND FUNCTION: PART II

*The prerequisite for this course is HS 2330A, HS 2300A/B (formerly 203a/b) or KIN 2200A (formerly KIN222a). If you do not have this prerequisite (or special permission to take the course), you are not eligible to take this course and must drop it immediately in order to make room for fellow students who have the prerequisite. Taking a course without the prerequisite is not grounds for appeal.*

*September to December, 2010*

## COURSE OUTLINE

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**THE HUMAN BODY:** A gross anatomical description of the structure and function of the human body focusing on systems responsible for maintaining the body (nervous, respiratory, digestive, urinary, endocrine), and for its continuation through the transmission of genes (reproductive system, developmental anatomy). Emphasis will be on the biological functions as they relate to the anatomical structure. The impact of disease and/or trauma to the various organ systems will be discussed and related to the relevant anatomy. Students will be tested by multiple choice exams and case material integrating function and structure.

There are 3 lecture hours per week. (**Tuesday, 8:30 am – 9:30 am and Thursday, 8:30 pm – 10:30 am; Health Sciences Building – room 40**). There will be three assessments during the course consisting of multiple-choice questions, K-type (multiple-multiple), diagrams and case studies, completed by each student during in-class examinations. In preparation for the exams, students will be provided an opportunity to complete system reviews using WebCT based practice examinations in order to assess preparedness. The assessments are designed to encourage regular review and should be used as a way to keep up with the material.

## COURSE OBJECTIVE

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To give each student a advanced understanding of human gross anatomy and working knowledge of the anatomical systems of the human body with particular reference to cavity systems and human development. At the end of this course each student should know the anatomical, physiological, and pathological issues regarding the nervous, endocrine, respiratory, digestive and urinary systems. In addition, a strong working knowledge of human reproduction and development will be attained.

# COURSE ADMINISTRATION

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## INSTRUCTOR

Dr. Dan Belliveau  
Health Sciences Building, room 218  
Ext. 88235

## OFFICE HOURS

Tuesday 9:30 AM – 11:00 AM

Thursday 10:30 AM – 12:00 PM OR by appointment

Due to the nature of research, 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](mailto: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:** <http://webct.uwo.ca>, Log onto WebCT 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 WebCT OWL.

## EXAMINATIONS

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The system assessments are two hour, out-of-class exams while the final exam (reproductive systems and human development) is scheduled during the December exam period. Exams will consist of multiple-choice questions including standard and k-type questions (multiple-multiple). In addition there will be diagrams associated with some questions. Each assessment will also have one case study. The examinations are not cumulative. The two midterm examinations in the course allow each block of material to be quite manageable. 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.

<b>GRADING:</b>	Examination 1 <b>October 15<sup>th</sup> 5:30 – 7:00</b> Nervous and Endocrine systems	<b>30%</b>	Each exam is <u>90 minutes</u> in duration and will consist of <u>60 questions</u> . There will be multiple choice and K-type questions. Images will be used in the assessments. There will be questions based on the clinically relevant material reviewed in class or similar health-relevant issues.
	Examination 2 <b>November 12<sup>th</sup> 5:30 – 7:00</b> Respiratory, Digestive and Urinary systems	<b>30%</b>	
	Examination 3 <b>December exam period</b> Reproductive systems and human development	<b>30%</b>	This is <b>not</b> a cumulative exam. The exam will be 2 hours duration with 75 questions.
	System Reviews	<b>5%</b>	WebCT OWL will be the delivery mechanism for multiple choice-based questions following each body system. This will provide an opportunity to assess preparedness and familiarity with course material. Each review will be available for a period of 72 hours after the last lecture of a particular system.
	Class Engagement	<b>5%</b>	Active participation in the class will be assessed through a unique tool, <b>Top Hat Monocle</b> . A 70% participation rate would yield <b>full</b> class engagement marks. Proportional marks will be assigned for lower participation levels.

## TOP HAT MONOCLE

I am excited to announce that the course will be using the monocleCAT (Monocle Computer Assisted Teaching) tool throughout the semester. monocleCAT is a web-based system that allows immediate interactive feedback and graphical simulations, to both aid and assess understanding of the course material. monocleCAT feedback, questions and simulations are launched on demand by the professor during class. Students can participate using their laptops, netbooks, ipad, smartphones, or cell-phones. monocleCAT questions, simulations and answers can also be reviewed by the student throughout the semester should they be made available by the professor. I anticipate utilizing a number of questions and the occasional demonstration in many lectures. Each student is expected to contribute actively to the questions and discussions. A class engagement grade of up to 5% is assigned to this contribution.

monocleCAT is licensed by *student subscription, with unlimited courses per student*. (A student can access all of their courses using the system throughout the subscription term, with a single subscription.) Subscription keys are available at the university bookstore or directly on the Top Hat Monocle website at <http://www.tophatmonocle.com/register/> Tutorials and technical support is available on the website once you register and login.

Questions will be asked throughout the lecture where challenging and interesting aspects of human anatomy are being discussed. This will allow an opportunity for the class to pause and consider how well a particular aspect of the material has been understood and could potentially be applied.

Responses to the questions will be displayed immediately and taken up in class for discussion and clarification. There is ***no specific grade per individual question***. The evaluation is delivered in the form of a participation grade for your engagement during the entirety of the course. While Top Hat Monocle will require your cell phone number during the registration process, all information is used for the sole purpose of the course and to link participation (as correlated to a cell phone number or computer login) to a registered student in the course.

It is the responsibility of the student to ensure that they have registered an account with Top Hat Monocle and that it is current, activated and functional. Students must see their instructor if they have any concerns about whether or not they are using the technology correctly. Students must use their own login registration or cell phone. *The use of somebody else's phone or login account in class constitutes a scholastic offence. The possession of a cell phone or computer belonging to another student will be interpreted as an attempt to commit a scholastic offence.*

**Student subscription:** Can be obtained for the following durations:

\$6.00 for 1 month

\$20.00 for 4 months

\$59.00 for 24 months (2 years)

\$129.00 for 60 months (5 years)

**Technical Requirements:**

Hardware / Software	Computer (PC or Mac) Firefox 3.0 or later IE 6.0 or later (requires Chrome Frame Plugin, System will prompt to install upon first usage) Chrome 5.0 or later Safari 4.0 or later Adobe Flash Player
Feature	
Questions and Feedback	PC, MAC, Smartphone or cellphone via text messaging capability
Demonstrations	PC, MAC only. Smartphone currently in beta and scheduled for future release.

## MAKE-UP EXAMINATIONS

Only under exceptional circumstances will permission be granted for writing an exam on an alternate date. If the exam was missed due to illness, **proper documentation** dated the day of the exam must be provided to the course coordinator and program office (academic counselor) as soon as physically possible. ***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.***

## 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'.

## ROUNDING OF GRADES

This is a practice (for example, bumping a 79 to 80%) some students request. The practice will not occur here. The edges of this course are clear and sharp. The mark attained is the mark you achieved and the mark assigned; there is no rounding to the next grade level. Please don't ask me to do this for you. It degrades my experience as your professor and your experience as a student. We both have an appreciation of high standards

## GRADING & APPEALS

Grades for all Health Studies and Rehabilitation Science courses are expected to be within the following ranges:

Year 1	68 – 72
Year 2	70 – 74
Year 3	72 – 76
Year 4	74 – 78

Grades outside of these ranges are submitted to the Adjudication Committee or Director for review. All grades are sent to the Director for approval. Faculty cannot release final grades until they have been calculated by the Faculty and reviewed by Director. This is a School of Health Studies Grading Criteria Policy.

## EXPECTATIONS

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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 **encourage**, and expect, the use of cell phones or other communication devices for the purpose of interactive learning through Top Hat Monocle. However, incoming calls **will no be tolerated** so please set your phones to work in quiet mode. I also welcome the use of computers to take notes. I **do not condone** their use for surfing the web, chatting on MSN 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

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### Required Textbook

Tortora, G.J. and Nielsen, M.T. Principles of Human Anatomy. (11<sup>th</sup> ed.) Wiley: Hoboken, NJ, 2009.

### Alternative Textbooks

Marieb, E.N. Mallatt, J. and Wilhelm, P.B. Human Anatomy (5<sup>th</sup> ed) Benjamin/Cummings: Menlo Park, California, 2008.

**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 MIDTERMS AND FINAL. AS WELL, THE MULTIPLE CHOICE QUIZZES ON THE WEB SITE ARE OLD EXAM QUESTIONS. THERE IS NO DATA BANK OF QUESTIONS IN THE LIBRARY**

## **PLAGIARISM**

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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 Web site:  
[http://www.uwo.ca/univsec/handbook/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf)

Students must write their essays and assignments in their own words. 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.

### **CHEATING**

The University of Western Ontario uses cheating analysis software to assess the validity of examinations written by students. 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. It is the onus of individual students to protect their written work and examination documents.

### **PLAGIARISM CHECKING**

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