

**University of Guelph**  
**College of Biological Science**  
**Department of Human Health and Nutritional Sciences**

**COURSE OUTLINE**  
**Human Anatomy (HK\*3401/3501)**  
**Fall 2016**

**Course Goal**

This is a laboratory-based course that provides students with a regional study of the back, upper limb, thorax and abdomen. A detailed understanding of the relevant osteology and muscles present in these anatomical regions provides the framework for which the pathways and relationships of blood vessels and nerves are examined. Students will learn to progressively layer anatomical structures, from deep to superficial, and/or follow their pathways from proximal to distal. It is with this fundamental understanding of anatomical structures and their relationships, that students will consider applications and/or potential effects of perturbations of anatomy.

**Teaching Team**

Professor	Dr. Lorraine Jadeski	<a href="mailto:ljadeski@uoguelph.ca">ljadeski@uoguelph.ca</a> OVC 2617, Extension 53740 Office Hours: by appointment
Teaching Assistants	Andrew Foster Barbora Hucik Amber Hutchinson Jason Huber Iain Lamb Karam Notay Ian Scagnetti	<a href="mailto:afoste01@uoguelph.ca">afoste01@uoguelph.ca</a> <a href="mailto:bhucik@uoguelph.ca">bhucik@uoguelph.ca</a> <a href="mailto:hutchina@uoguelph.ca">hutchina@uoguelph.ca</a> <a href="mailto:jhuber@uoguelph.ca">jhuber@uoguelph.ca</a> <a href="mailto:ilamb@uoguelph.ca">ilamb@uoguelph.ca</a> <a href="mailto:notay@mail.uoguelph.ca">notay@mail.uoguelph.ca</a> <a href="mailto:iscagnet@uoguelph.ca">iscagnet@uoguelph.ca</a>

**Course Schedule**

Lectures	Monday, Wednesday, Friday: 8:30 – 9:20			ALEX 200
Laboratories	HK*3401	Tuesday	10:00 – 12:50	OVC 1610
		Tuesday	2:30 – 5:20	OVC 1610
		Thursday	10:00 – 12:50	OVC 1610
		Thursday	2:30 – 5:20	OVC 1610
	HK*3501	Wednesday	10:30 – 12:20	OVC 1610
		Wednesday	2:30 – 4:20	OVC 1610

## Learning Outcomes

By the end of this course, you should be able to:

1. Identify and describe the relationships of major anatomical structures present in the back, spinal cord, upper limb, thorax and abdomen.
2. Identify the proximal and distal attachments of muscles present in the back, upper limb, thorax and abdomen; infer the action(s) of muscles based on their osteological attachments.
3. Explain the coordinated activity of muscles in producing movements of the body.
4. Understand and describe the pathway of nerves, from their points of origin as rami of spinal nerves, to their distribution sites; apply your knowledge of the origin and pathway of nerves to determine which structures they innervate.
5. Understand and describe the pathway of blood vessels, from their points of origin from the heart, to their distal branches.
6. Provide schematic representations of structures present in the back, upper limb, thorax and abdomen, and the relationships of these structures.
7. Use your knowledge of: a) structures present in the back, upper limb, thorax and abdomen, b) their relationships, and c) the pathway of nerves and blood vessels, to consider applications of anatomy, and assess the impact of perturbations of anatomy.
8. Demonstrate oral competency, with an emphasis on providing salient information in a peer-teaching exercise.
9. Work actively, in a small team-based learning group; work together in a respectful and collaborative manner.

## Course Resources

<b>Required Textbooks:</b>	Essential Clinical Anatomy, 5 <sup>th</sup> Edition, Keith L. Moore and Anne M. Agur	
	Grant's Dissector, 16 <sup>th</sup> Edition, Allen J. Detton	
	<b>An</b> Anatomy Atlas	Atlases available in Bookstore: <ul style="list-style-type: none"> <li>• Grant's Atlas of Anatomy, 14<sup>th</sup> Edition, Anne M. Agur and Arthur F. Dalley</li> <li>• Atlas of Anatomy, 3<sup>rd</sup> Edition, Gilroy, MacPherson and Ross</li> <li>• Color Atlas of Anatomy: A Photographic Study of the Human Body, 8<sup>th</sup> Edition, Rohen, Yakochi and Litjen-Drecoll</li> </ul>
<p><b>Please Note:</b> Your course instructor (LCJ) highly recommends that you use Moore's Essential Clinical Anatomy, and at least one anatomy atlas as a reference tools for HK*3401/3501. In addition, you will require access to Grant's Dissector, 16<sup>th</sup> edition. You may choose to share a copy of Grant's Dissector with your laboratory group, group member/friend, or have access to your own copy. Older editions of any of the recommended atlases of anatomy are suitable for use in the course.</p> <p>Bring colours to class (e.g., markers, pencil crayons or Crayola Twistables) for drawings.</p>		
<b>Laboratory Supplies:</b>	<p>You are required to bring a white laboratory coat to all laboratory sessions (available in bookstore), and wear clothing that covers your legs and feet: e.g., long pants and suitable shoes (closed-toed/ensure whole foot is covered) are required. Please be aware that you are not permitted to enter the laboratory if you are not suitably attired.</p> <p>Gloves (nitrile; non-latex) and dissection instruments are provided in the laboratory.</p> <p>HK*3401/3501 Laboratory Fee: \$50.00; please bring exact cash or cheque (made out to University of Guelph) to your FIRST laboratory period (week of September 14, 2015).</p>	
<b>Courselink:</b>	<p>This course will make use of the University of Guelph's course website on D2L (via Courselink). Consequently, you are responsible for all information posted on the Courselink page for HK*3401/3501.</p>	
<b>Undergraduate Calendar:</b>	<p>Is the source of information about the University of Guelph's procedures, policies and regulations, which apply to undergraduate programs. It can be found at:</p> <p><a href="https://www.uoguelph.ca/registrar/calendars/undergraduate/current/">https://www.uoguelph.ca/registrar/calendars/undergraduate/current/</a></p>	

## Methods of Assessment

ASSESSMENT:	Value (% of Final Grade)	Date	Learning Outcomes	Course Activity
Written Test 1	22.5%	Saturday October 29, 2016 15:00 – 17:00 ROZH 101	1 - 7	Back, Spinal Cord, Upper Limb: Labs 1 – 6 and Associated Lectures
Practical Test 1	22.5%	Thursday October 27, 2016 OVC 1610		Back, Spinal Cord, Upper Limb: Labs 1 – 6 and Associated Lectures
Written Test 2	17.5%	Friday December 9, 2016	1 - 7	Thorax and Abdomen: Labs 7 – 11 and Associated Lectures
Practical Test 2	17.5%	Friday December 2, 2016		Thorax and Abdomen: Labs 7 – 11 and Associated Lectures
Laboratory Progress	5%	Evaluated Weekly by Teaching Assistants	1 – 7, 9	Labs 1 – 11
Group Demonstration A: Peer Teaching Exercise	10%	Students, working in pairs, perform one laboratory demonstration in the fall semester (i.e., Back/Spinal Cord, Upper Limb or Thorax/Abdomen)	8 - 9	Students Perform 1 of 3 possible Laboratory Demonstrations: Labs 1 – 2 (Back/Sp. C) Labs 3 – 5 (UL) Labs 7 – 10 (Th./Abd/)
Group Demonstration B: Team Learning Exercise	5%	On Group Demonstration Days, <i>entire</i> laboratory group participates in oral quizzes (administered by TAs)	8 - 9	Students Participate in all Team Learning Exercises: Labs 1 – 2 (Back/Sp. C) Labs 3 – 5 (UL) Labs 7 – 10 (Th./Abd)

## Course and University Policies

### When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. See the undergraduate calendar for information on regulations and procedures for [Academic Consideration](#).

### Accessibility

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact Student Accessibility Services (formerly the Centre for Students with Disabilities) as soon as possible.

For more information, contact [Student Accessibility Services](#) at 519-824-4120 ext. 56208 or email [csd@uoguelph.ca](mailto:csd@uoguelph.ca).

### Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The [Academic Misconduct Policy](#) is detailed in the Undergraduate Calendar.

### E-mail Communication

As per university regulations, all students are required to check their <uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

## **Drop Date**

Human anatomy is a two semester course; the last date to drop HK\*3401/2 or HK\*3501/2, without academic penalty, is Friday January 15, 2016. To confirm the actual date please see the schedule of dates in the Undergraduate Calendar. For regulations and procedures for Dropping Courses, see the [Undergraduate Calendar](#).

## **Copies of out-of-class assignments**

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

## **Recording of Materials**

Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

## **Grading**

If you are absent from classes during the semester, you will be expected to make up missed lecture and laboratory material on your own.

## **Campus Resources**

If you are concerned about any aspect of your academic program:

Make an appointment with a [Program Counsellor](#) in your degree program.

If you are struggling to succeed academically:

There are numerous academic resources offered by the [Learning Commons](#) including, Supported Learning Groups for a variety of courses, workshops related to time management, taking multiple choice exams, and general study skills. You can also set up individualized appointments with a learning specialist.

If you are struggling with personal or health issues:

[Counselling services](#) offers individualized appointments to help students work through personal struggles that may be impacting their academic performance.

[Student Health Services](#) is located on campus and is available to provide medical attention.

For support related to stress and anxiety, besides Health Services and Counselling Services, [Kathy Somers](#) runs training workshops and one-on-one sessions related to stress management and high performance situations.

If you have a documented disability or think you may have a disability:

[Student Accessibility Services](#) (SAS) formerly Centre for Students with Disabilities can provide services and support for students with a documented learning or physical disability. They can also provide information about how to be tested for a learning disability.