



## HK\*3502 Human Anatomy

Winter 2021

Section(s): C01

Department of Human Health and Nutritional Sciences

Credit Weight: 0.75

Version 1.00 - January 21, 2021

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### 1 Course Details

#### 1.1 Calendar Description

Second part of the two-semester course HK\*3501/2. A two-semester lecture and laboratory course in human anatomy which includes a detailed study of the skeleton, upper and lower limbs, thorax, abdomen, pelvis, perineum, head, neck and central nervous system. Labs involve observation of anatomical details using prosections and dissected specimens. This is a two-semester course offered over consecutive semesters. When you select it you must select HK\*3501 in the Fall semester and HK\*3502 in the Winter semester. A grade will not be assigned to HK\*3501 until HK\*3502 has been completed.

**Pre-Requisites:** HK\*3501

#### 1.2 Course Description

This is a laboratory-based course that provides students with a regional study of the posterior abdominal wall, pelvis and perineum, lower limb, and head and neck. A detailed understanding of relevant osteology and muscles present in these anatomical regions provides the framework upon 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. This is the second half of a two-semester lecture- and laboratory-based course in human anatomy. Students selecting HK\*3401 or HK\*3501 in the fall semester must select HK\*3402 or HK\*3502, respectively, in the winter semester. A grade will not be assigned to the first half of the course (i.e., HK\*3401 or HK\*3501) until the second half of the course (i.e., HK\*3402 or HK\*3502) has been completed.

#### 1.3 Timetable

Lectures Monday, Wednesday, Friday: 8:30 - 9:20

Laboratories Tuesday: 11:30 - 1:20

Tuesday: 2:30 - 4:20

Thursday: 11:30 - 1:20

Thursday: 2:30 - 4:20

### **LECTURE TIMES:**

Monday, Wednesday and Friday 8:30 AM – 9:20 AM, Online: Lecture slides (Powerpoint with voice-over will be posted on Courselink)

### **HK\*3402 LABORATORY TIMES:**

<b>Lab #</b>	<b>Day</b>	<b>Time</b>	<b>Location</b>
LAB 1	Tuesday	11:30 AM - 1:20 PM	
LAB 2	Tuesday	2:30 PM - 4:20 PM	
LAB 3	Thursday	11:30 AM - 1:20 PM	
LAB 4	Thursday	2:30 PM - 4:20 PM	

## **1.4 Final Exam**

Thursday April 22, 2021; online via Respondus.

## **2 Instructional Support**

## 2.1 Instructional Support Team

**Instructor:** Lorraine Jadeski  
**Email:** ljadeski@uoguelph.ca  
**Telephone:** +1-519-824-4120 x53740  
**Office:** OVCE 2617  
**Office Hours:** Friday during class time via zoom, or by appointment.

## 2.2 Teaching Assistants

**Teaching Assistant:** Nicole Fletcher  
**Email:** fletchen@uoguelph.ca  
**Office Hours:**

**Teaching Assistant:** Emma Holjak  
**Email:** eholjak@uoguelph.ca

**Teaching Assistant:** Aleah Kirsh  
**Email:** akirsh@uoguelph.ca

**Teaching Assistant:** Jhonny Chris Molina  
**Email:** jmolin02@uoguelph.ca

**Teaching Assistant:** Neil Morley  
**Email:** wmorley@uoguelph.ca

## 3 Learning Resources

### 3.1 Required Resources

#### Essential Clinical Anatomy (Textbook) (Textbook)

**Essential Clinical Anatomy, 6th Edition, Anne M. Agur and Arthur F. Dalley**

#### Atlas of Anatomy (Other)

**Course instructor suggests that students have access to an atlas of anatomy:**

Grant's Atlas of Anatomy, 14th Edition, Anne M. Agur and Arthur F. Dalley

Atlas of Anatomy, 3rd Edition, Gilroy, MacPherson and Ross

Color Atlas of Anatomy: A Photographic Study of the Human Body, 8th Edition, Rohen, Yakochi and Litjen-Drecoll

**CourseLink (Website)**

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\*3402/3502.

**Undergraduate Calendar (Website)**

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current>

Is the source of information about the University of Guelph's procedures, policies and regulations, which apply to undergraduate programs.

**3.2 Recommended Resources****Mini Skeleton (Other)**

Students registered in HK\*3502 have the opportunity to purchase mini-skeletons (34 inches high) at a special reduced price using a coupon code provided by the anatomical model company. Details / instructions will be provided to students via email and CourseLink.

**3.3 Note**

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.

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<http://www.thiemeteachingassistant.com/>

off campus access:

<https://subzero.lib.uoguelph.ca/login?URL=http://www.thiemeteachingassistant.com/>

<http://www.thiemeteachingassistant.com.subzero.lib.uoguelph.ca/Terms%20of%20Use>

**4 Learning Outcomes****4.1 Course 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 abdominal wall, pelvis, perineum, lower limb, and head and neck.
2. Identify the proximal and distal attachments of muscles present in the regions studied; 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 point of origin from the heart, to their distal branches.
  6. Provide schematic representations of structures present in abdominal wall, pelvis, lower limb, and head and neck, and the relationship of those structures.
  7. Use your knowledge of: a) structures present in the abdominal wall, pelvis, lower limb, and head and neck, 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.
  10. As a laboratory-based group, reflect on the completeness and quality of your laboratory-based work.
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## 5 Teaching and Learning Activities

### 5.1 Lab

Topics:	Laboratory Week	Laboratory Topic
		Osteology of the Pelvis
	Laboratory 1	Posterior Abdominal Wall
	January 11 - 15, 2021	Lumbosacral Plexus
	Laboratory 2	Pelvic Diaphragm
	January 18 - 22, 2021	Gluteal Region

	Posterior Thigh
Laboratory 3	Pelvic Viscera and Blood Supply
January 25 - 29, 2021	
Laboratory 4	Pelvic Viscera and Blood Supply Continued
February 1 - 5, 2021	Perineum
Laboratory 5	Anterior and Medial Thigh
February 8 - 12, 2021	
Laboratory 6	Leg and Foot
February 22 - 26, 2021	
Laboratory 7	Review
March 1 - 5, 2021	
Laboratory 8	Head and Neck 1

March 8 - 12, 2021

Laboratory 9

Head and Neck 2

March 15 - 19, 2021

Laboratory 10

Head and Neck 3

March 22 - 26, 2021

Laboratory 11

Head and Neck 4

March 29 - April 2, 2021

Laboratory 12

Review

April 5 - 9, 2021

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## 6 Assessments

### **General Statement for Assessments:**

Online assessments in this course will be administered using Respondus Lockdown software + web cam.

Note:

This course currently plans to use Respondus Lockdown software for some assessments. Your instructors are aware that some students have expressed concerns about the use of this exam invigilation software. The University Administration is currently evaluating the matter of Respondus Lockdown software and other online monitoring platforms that use artificial intelligence for remote invigilation. Your instructors are committed to an equitable and accessible assessment experience and will adapt, based on guidance provided.

## 6.1 Assessment Details

### Written Test 1 (20%)

**Date:** Fri, Mar 5, 8:30 AM - 10:30 AM, Online via Respondus

**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7

Laboratories 1 - 7: Posterior Abdominal Wall, Pelvis and Lower Limb

### Practical Test 1 (20%)

**Date:** Mon, Mar 8, 8:30 AM - 9:20 AM, Online via Respondus

**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7

Laboratories 1 - 7: Posterior Abdominal Wall, Pelvis and Lower Limb

### Written Test 2 (15%)

**Date:** Thu, Apr 22, 11:30 AM - , 1:30 PM, Online via Respondus

**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7

Head and Neck

### Practical Test 2 (15%)

**Date:** Mon, Apr 12, 8:30 AM - 9:20 AM, Online via Respondus

**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7

### Mini-Tests (best 2 of 3; 5 % each) (10%)

Mini-Test 1: Monday January 25, 2021 during class time.

Mini-Test 2: Monday February 22, 2021 during class time.

Mini-Test 3: Wednesday March 31, 2021 during class time.

### Group Project 1: Osteology of Pelvis and Proximal Femur; Lateral Rotators of the Hip (10%)

Group Project 1A: Individual Submission - Model / Drawing of Osteology: Pelvis and Proximal Femur (due Friday January 29, 2021 at midnight).

Group Project 1B: Group Submission - Model / Drawing of Pelvis and Proximal Femur (due Friday February 5, 2021 at midnight). Ensure clear visual of origins, insertions and pathways of obturator externus / internus, piriformis, quadratus femoris and gamelli (superior / inferior) muscles.

### Group Project 2: Peer Teaching Exercise (10%)

**Date:** Voice-over Powerpoint Presentations will be Submitted Online



**Learning Outcome: 8, 9**

Students, working in small groups (i.e., 4 students), perform 1 of 2 possible laboratory demonstrations:

Pelvis and Gluteal Region (due Friday February 26, 2021 at midnight)

Head and Neck (due Friday April 9, 2021 at midnight)

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## 7 Department of Human Health and Nutritional Sciences Statements

### 7.1 Academic Advisors

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

- Make an appointment with a program counsellor in your degree program. [B.Sc. Academic Advising](#) or [Program Counsellors](#)

### 7.2 Academic Support

If you are struggling to succeed academically:

- Learning Commons: 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. <http://www.learningcommons.uoguelph.ca/>
- Science Commons: Located in the library, the Science Commons provides support for physics, mathematic/statistics, and chemistry. Details on their hours of operations can be found at: <http://www.lib.uoguelph.ca/get-assistance/studying/chemistry-physics-help> and <http://www.lib.uoguelph.ca/get-assistance/studying/math-stats-help>

### 7.3 Wellness

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. <https://www.uoguelph.ca/counselling/>
- Student Health Services is located on campus and is available to provide medical attention. <https://www.uoguelph.ca/studenthealthservices/clinic>
- 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. <http://www.selfregulationskills.ca/>

## 7.4 Personal information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) <http://www.e-laws.gov.on.ca/index.html>. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes.

For more information regarding the Collection, Use and Disclosure of Personal Information policies please see the Undergraduate Calendar. (<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/intro/index.shtml>)

# 8 University Statements

## 8.1 Email Communication

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

## 8.2 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. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals  
<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Graduate Calendar - Grounds for Academic Consideration  
<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions  
<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

### 8.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Graduate Calendar - Registration Changes

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml>

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml>

### 8.4 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.

### 8.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance and not later than the 40th Class Day.

For Guelph students, information can be found on the SAS website

<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website

<https://www.ridgetownc.com/services/accessibilityservices.cfm>

### 8.6 Academic Integrity

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 encourages academic integrity. 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.

Undergraduate Calendar - Academic Misconduct

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Graduate Calendar - Academic Misconduct

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

## 8.7 Recording of Materials

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

## 8.8 Resources

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

Academic Calendars

<https://www.uoguelph.ca/academics/calendars>

## 8.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings and academic schedules. Any such changes will be announced via CourseLink and/or class email. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

## 8.10 Illness

The University will not normally require verification of illness (doctor's notes) for fall 2020 or

winter 2021 semester courses. However, requests for Academic Consideration may still require medical documentation as appropriate.

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