



HK*3502 Human Anatomy

Winter 2020

Section(s): C01

Department of Human Health and Nutritional Sciences

Credit Weight: 0.75

Version 1.00 - December 20, 2019

1 Course Details

1.1 Calendar Description

Second part of the two-semester course HK*3501/2. Refer to HK*3501/2 for course description.

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

LECTURE TIMES:

Monday, Wednesday and Friday 8:30 AM – 9:20 AM, ROZH 101

HK*3402 LABORATORY TIMES:

Lab #	Day	Time	Location
LAB 1	Tuesday	11:30 AM - 2:20 PM	BMED 1610
LAB 2	Tuesday	2:30 PM - 5:20 PM	BMED 1610
LAB 3	Thursday	11:30 AM - 2:20 PM	BMED 1610
LAB 4	Thursday	2:30 PM - 5:20 PM	BMED 1610

HK*3502 LABORATORY TIMES:

Lab #	Day	Time	Location
LAB 1	Wednesday	2:30 PM - 4:20 PM	BMED 1610
LAB 2	Friday	2:30 PM - 4:20 PM	BMED 1610

1.4 Final Exam

Thursday April 16, 2020 at 8:30 - 10:30 AM, Room TBA.

Exam time and location is subject to change. Please see WebAdvisor for the latest information.

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:	Wednesday 1:30 - 2:30, or by appointment

2.2 Teaching Assistants

Teaching Assistant:	Kelsey Danielli
Email:	daniellk@uoguelph.ca
Office Hours:	Lab Periods

Wednesday 2:30 - 4:20

Thursday 11:30 - 5:20

Thursday 2:30 - 5:20

Teaching Assistant: Sergiu-Gabriel Duplea
Email: sduplea@uoguelph.ca
Office Hours: Lab Periods:

Thursday 11:30 - 2:20

Thursday 2:30 - 5:20

Friday 2:30 - 4:20

Teaching Assistant: Amber Hutchinson
Email: hutchina@uoguelph.ca
Office Hours: Lab Periods:

Tuesday 11:30 - 2:20

Tuesday 2:30 - 5:20

Friday 2:30 - 4:20

Teaching Assistant: David Shulman
Email: dshulman@uoguelph.ca
Office Hours: Lab Periods

Tuesday 11:30 - 2:20

Tuesday 2:30 - 5:20

Wednesday 2:30 - 4:20

3 Learning Resources

3.1 Required Resources

Essential Clinical Anatomy (Textbook) (Textbook)

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

Grant's Dissector (Lab Manual)

Grant's Dissector, 16th Edition, Allen J. Detton

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

Drawing Tools (Equipment)

Bring colours (e.g., fine-tipped markers or coloured pencils) or other drawing tools (e.g., tablet) to class for drawings.

Lab Coat (Equipment)

You are required to wear a white laboratory coat in all laboratory sessions (available in bookstore), and wear clothing that covers your legs and feet: long pants and suitable shoes (closed-toed / ensure entire foot is covered) are required. Please be aware that you are not permitted to enter the laboratory if you are not suitably attired.

Nitrile Gloves (Equipment)

Gloves (nitrile; non-latex) and dissection instruments are provided in the laboratory.

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 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. In addition, you will require access to Grant's Dissector, 16th 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 the recommended text (Moore's Essential Clinical Anatomy), or any of the recommended atlases of anatomy are suitable for use in the course.

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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

Laboratory 1

January 7 - 10, 2020

Introductory Laboratory:

Group Assignments; Skin
Removal

Anterolateral Abdominal
Wall

Laboratory 2

January 14 - 17, 2020

Osteology of the Pelvis

Posterior Abdominal Wall

Lumbar Plexus

Pelvic Diaphragm

Laboratory 3

January 21 - 24, 2020

Pelvic Viscera

Blood Supply

Sacral Plexus

Laboratory 4

January 28 - 31

Perineum

Anterior and Medial Thigh

Laboratory 5

February 4 - 7, 2020

Gluteal Region

Posterior Thigh

Presentations: Pelvis

Laboratory 6
February 11 - 14, 2020

Leg and Foot

Laboratory 7
February 25 - 28, 2020

Review
Presentations: Lower Limb

Laboratory 8
March 3 - 6, 2020

Head and Neck 1

Laboratory 9
March 10 - 13, 2020

Head and Neck 2

Laboratory 10
March 17 - 20, 2020

Head and Neck 3

Laboratory 11
March 24 - 27, 2020

Head and Neck 4

	Review
Laboratory 12	Presentations: Head and
March 31 - April 3, 2020	Neck

6 Assessments

6.1 Assessment Details

Written Test 1 (22.5%)

Date: TBA

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

Abdominal Wall (Anterolateral and Posterior), Pelvis, Perineum, Lower Limb

Practical Test 1 (22.5%)

Date: Mon, Mar 2

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

Abdominal Wall (Anterolateral and Posterior), Pelvis, Perineum, Lower Limb

Group Demonstration A: Peer Teaching Exercise (10%)

Date: BMED 1610

Learning Outcome: 8, 9

Students, working in pairs, perform 1 of 3 possible laboratory demonstrations:

Labs 1 -3 (Abdominal Wall and Pelvis)

Labs 4 - 7 (Lower Limb)

Labs 8 - 11 (Head and Neck)

Group Demonstration B: Team Learning Exercise (5%)

Date: BMED 1610

Learning Outcome: 8, 9

On group presentation days, entire laboratory group participates in oral quizzes (administered by TAs and / or faculty/staff). Students participate in all team learning exercises: Labs 1 - 3 (Abdominal Wall and Pelvis); Labs 4 - 6 (Lower Limb); Labs 8 - 11 (Head and Neck).

Lab Progress (5%)**Date:** BMED 1610**Learning Outcome:** 9, 10

Students self-report on their progress in the lab.

Written Test 2 (17.5%)**Date:** Thu, Apr 16, 8:30 AM - , 10:30 AM, TBA**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7

Head and Neck

Practical Test 2 (17.5%)**Date:** Mon, Apr 13, BMED 1610**Learning Outcome:** 1, 2, 3, 4, 5, 6, 7

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/>

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>
