



**Anatomy 2221/9501/9524: Functional Human Anatomy
for Kin, PT, OT**

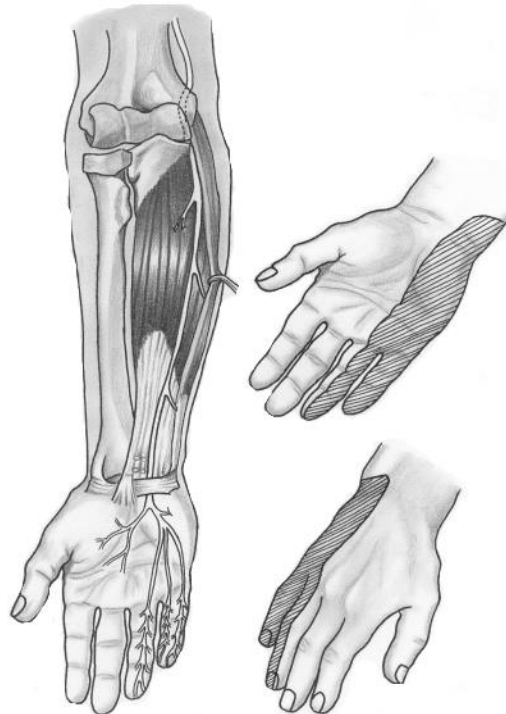
Anat 2221, Kinesiology: Full year 2017-2018

Anat 9501, School of Physical Therapy:

Two terms Sept -Feb, 2017-2018

Anat 9524, School of Occupational Therapy:

Fall term Sept - Dec, 2017



Anatomy 2221/9501/9524: Functional Human Anatomy for Kin, PT, OT

1. THE OVERALL COURSE OBJECTIVES ARE TO:

- Identify through cadaveric dissection the major structures of each of the body regions.
- Correlate structure and function as it applies to the gross anatomical features and overall function of the body systems

- Integrate basic physiological and biomechanical concepts, to better understand the gross anatomical structure and function

- Provide practical examples of how the anatomical knowledge may be applied to the students' varied disciplines (kinesiology, physical therapy (PT) and occupational therapy (OT))

- Develop an ability to predict the anatomical basis for a number of injury mechanisms and congenital anomalies

2. COURSE INFORMATION

Organization: There are **two lectures** and **one lab** per week. Where possible, the lecture material will explain and expand upon the topics covered in the subsequent lab. The labs are designed as **self-discovery experiences** so that **exploration is done by the student** with the laboratory assistant supervising and helping only on request. Doors to the lab shall remain locked at all times.

Lectures: **Western Science Centre 55** **Tuesdays & Thursdays, 2:30 - 3:30 p.m.**

Labs: **Dental Sciences Building 4001** **Anatomy 9501 - Wednesdays, 2:30 - 4:30 p.m.**

**Anatomy 2221 - Tuesdays or Thursdays,
3:30 - 5:30 p.m.**

Anatomy 9524 – Fridays, 8:30 - 10:30 a.m.

Requisites:

Required course for each of Anat 2221, 9501, 9524

Prerequisite(s): for Kin - Grade 12U Bio; enrollment in MScPT or MScOT or BSc stream of Kin

Corequisite(s)

Antirequisite(s): Anat 3319

Senate regulation regarding the student's responsibility regarding requisites:

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

3. INSTRUCTOR INFORMATION

Course Committee Chair: **Dr. Brian Allman**
Office: MSB 460, Medical Sciences Building
Phone: 519-661-2111 ext. 88689
Email: brian.allman@schulich.uwo.ca

Course Director: **Dr. Marjorie Johnson**
Anatomy 9501, 9524 Office: MSB487, Medical Sciences Building
Phone 519 661-2111, Ext 86756
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Course Director: **Dr. Michelle Mottola**
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Instructors: **Dr. Brian Allman**
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Email: mmottola@uwo.ca

Teaching assistants: each lab will have 2-4 graduate teaching assistants or volunteers - names TBA on the course web site

Office Hours:

Primarily, we have an open door policy and do respond to email as "virtual office hours". It is always good practice to call or email ahead of time if you would like to meet in person.

OWL:

This site will be used primarily for lecture material, grades, practice quizzes, announcements and calendar updates.

Students with OWL issues should contact the Computer Support Centre at 519 661-3800 or fill out the webform: <https://servlet.uwo.ca:8081/vistahelpdesk/controller.jsp>.

4. COURSE MATERIAL

Required Course Notes:

These are posted on OWL in pdf format. It is expected that you use the notes in the e-format during lectures as a guide to your learning. Extra reading from the recommended textbooks can assist with your learning. **Please print out the lab instructions and bring them to lab each week.**

RECOMMENDED TEXTBOOK: older versions are acceptable

Atlas of Clinical Gross Anatomy, 2005, Moses et al., Elsevier Mosby, Philadelphia ISBN 0323037445

OR

Human Anatomy: Color atlas and text. 2008, 5th edition. Gosling et al., Mosby-Wolfe, London ISBN:9780723434511 - Older editions are sufficient

LAB BOOKS:

To supplement their lab notes, students are required to use an atlas during their labs. There must be at least one atlas per group during the lab sessions. ***Some atlases are provided in the lab, but these must remain in the lab.***

Atlas Recommended if not using Moses et al (above)

Grant's Atlas of Anatomy, 2005, 11th edition, Agur & Dalley, Lippincott, Williams & Wilkins, Baltimore.

OR

Atlas of Human Anatomy, 2003, 3rd edition, Netter, Novartis, East Hanover, N.J.

OR

Color Atlas of Anatomy, 5th edition, 2002, Rohen, Yokochi, Lutjen-Drecol, LWW

AUDIO-VISUAL AIDS:

Look for additional resources on the course web site home page under Practice Activities, Helpful Links and Videos.

THE ANATOMY LEARNING CENTRE: WHERE AND WHAT IS IT? The Anatomy Learning Centre is located in **Room D4002** of the Dental Sciences Building.

It contains plastic models of most anatomical structures. The entrance code for the door will be given out during the first lab.

5. EVALUATION: see schedule (pgs 8-13) for dates

<u>Course</u>	<u>Type of Test/Exam</u>	<u>Duration</u>	<u>% of Final</u>
Anatomy 9501	Lab Practical 1	1 hour	15%
	Lab Practical 2	1 hour	15%
	Term I Written Test	2.5 hours	30%
	Term II Lab Practical 3	1 hour	20%
	Term II Written Exam	1 hour	20%
Anatomy 9524	Lab Practical 1	1 hour	20%
	Lab Practical 2	1 hour	25%
	Online case quizzes	NA	15%
	Final Written Exam	2.5 hours	40%
Anatomy 2221	Lab Practical 1	1 hour	15%
	Lab Practical 2	1 hour	15%
	Term I Written Test	2.5 hours	20%
	Term II Lab Practical 3	1 hour	25%
	Term II Written Exam	2.5 hours	25%

Written multiple choice exams will be graded using the Scantron system. Multiple-choice exams may be examined by computer software to check for unusual coincidences in answer patterns that may indicate cheating. Lab practical tests will be in a “bell-ringer” format. More information about the bell-ringer format will be given in lab and lecture prior to the first lab practical. The written exams are cumulative within each term, not across terms. The breakdown of questions will reflect the material covered. (ie. Dec written will be 50:50 back/upper and lower limb; the April final will be 50:50 head/neck/thorax and abdomen/pelvis.) Online case quizzes may be attempted by all but they will only count toward the OT student grades.

6. ASSESSMENT CONDITIONS

- A minimum of 80% **attendance** is required for the labs. Documentation is required for attendance less than 80%. Any attendance less than 80% without documentation will result in an automatic loss of 5% of the overall course grade.
- An **overall passing average** (according to your specific program) is required to pass the course. In other words, a student may fail a lab component but still have an overall passing average.
- **Rounding of grades:** According to the Schulich undergraduate science courses guidelines, decimal points will NOT be rounded to the next whole number (e.g., 69.56 to a 70%). Marks close to the next decade will **not be** rounded beyond the next single digit grade e.g., 68.5 **will not be** round to 70, nor will 69=70). In other words you get what you achieved; however, the OWL grading software will automatically round up the grade submissions to a whole number.
- **Minimum average** of 65% is required for 9524 students (OT program requirement)

Absence from course commitments

A. Absence for medical illness or non-medical reasons:

Students must familiarize themselves with the Policy on Accommodation for Medical Illness:

<https://studentservices.uwo.ca/secure/index.cfm>

- **Documentation for medical or non-medical reasons**, according to the **Policy on Accommodation for Medical Illness** is required for absences from tests or exams. Documentation is not required for work worth less than 10% of the total course grade (ie. individual lab sessions). When documentation is required for missing an exam or test, such documentation must be submitted by the student directly to the appropriate Faculty Dean's office and not by the instructor.
- It will be the Dean's office that will determine if accommodation is warranted.
- The date and nature of a make-up test/exam will be determined by the instructor, in consultation with the student. Generally, students who miss a lab test will be given a verbal 1:1 lab test or re-weighting of grades will be considered. Written tests/exam will be made up by a written test/exam.

Statement from the Dean's Office

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to the Dean's office as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor once the accommodation has been approved and the instructor has been informed. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from the Dean's Office immediately. For further information please see:

<http://www.uwo.ca/univsec/handbook/appeals/medical.pdf>

PT Attendance:

Students in the MSc PT are expected to attend all classes and laboratory sessions. If a student must be absent from regularly scheduled class times he/she is expected to contact the course instructor/manager

and the School of PT main office and excuse himself/herself from that class or lab. A student requiring academic accommodation due to illness, should use the Student Medical Certificate when visiting an off-campus medical facility or request a Record's Release Form (located in the Dean's Office) for visits to Student Health Services.

The form can be found at:

https://studentservices.uwo.ca/secure/medical_document.pdf

The Policy on Accommodation for Medical Illness is also available on the BMSUE secure site:

www.uwo.ca/bmsc

B. Special Examinations

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents.

A Special Examination must be written at the University or an Affiliated University College no later than 30 days after the end of the examination period involved. To accommodate unusual circumstances, a date later than this may be arranged at the time permission is first given by the Dean of the Faculty. The Dean will consult with the instructor and Department Chair and, if a later date is arranged, will communicate this to Registrarial Services. If a student fails to write a scheduled Special Examination, permission to write another Special Examination will be granted only with the permission of the Dean in exceptional circumstances and with appropriate supporting documents. In such a case, the date of this Special Examination normally will be the scheduled date for the final exam the next time the course is offered.

7. PLAGIARISM

Senate regulations **require ALL** instructors to include the following statements on plagiarism, cheating and proficiency in English in the course outline:

“Students must write their essays and assignments in their own words. Whenever students take an idea or 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 Western Academic Calendar).”

STUDENT CODE OF CONDUCT

The purpose of the Code of Student Conduct is to define the general standard of conduct expected of students registered at Western University, provide examples of behaviour that constitutes a breach of this standard of conduct, provide examples of sanctions that may be imposed, and set out the disciplinary procedures that the University will follow. For more information, visit

<http://www.uwo.ca/univsec/board/code.pdf>

8 . TERM SCHEDULE as follows: (changes may be made during the term if needed)

**TERM 1 2017-18
INTRODUCTION, BACK, SPINAL CORD, AND LIMBS**

INTRO & UPPER LIMB– Dr. Allman

Lecture Schedule

<u>Date</u>	<u>Topic</u>
Thurs. Sept. 7	Introduction to the course, Anatomical terminology, tissue, joints
Tues. Sept. 12	Osteology
Thurs. Sept. 14	Intro to Upper limb, Muscles of the Scapula
Tues. Sept. 19	Deep Back & Spinal Cord
Thurs. Sept. 21	Pectoral Muscles and Axilla
Tues. Sept. 26	Brachial Plexus
Thurs. Sept. 28	Arm
Tues. Oct 3	Shoulder and Elbow Joint
Thurs. Oct. 5	Anterior Forearm
Tues. Oct. 17	Anterior Forearm and Carpal tunnel
Thurs Oct. 19	Posterior Forearm
Tues. Oct. 24	Hand
Thurs. Oct. 26	Review or catch-up

Back and Upper Limb Lab Schedule

<u>Date</u>	<u>Topic</u> – see lab instructions found on the course web site
Week of Sept. 11	Service, Osteology of axial skeleton and upper limb
Week of Sept. 18	Superficial back & Deep back
Week of Sept. 25	Spinal cord and Pectoral region
Week of Oct. 2	Brachial Plexus and Arm
Week of Oct. 16	Anterior Forearm and Shoulder/Elbow
Week of Oct. 23	Posterior Forearm and Hand
Mon. Nov. 6	Lab Practical 1: All cohorts (Kin, PT & OT) 7:00-10:00pm Specific time slots provided in lecture/lab

LOWER LIMB

Lecture Schedule – Dr. Tim Wilson

<u>Date</u>	<u>Topic</u>
Tues. Oct. 31	Intro lower limb, pelvic girdle Lumbosacral plexus
Thurs. Nov. 2	Anterior and Medial thigh
Tues. Nov. 7	Medial and Lateral thigh
Thurs. Nov. 9	Gluteal & Posterior thigh
Tues. Nov. 14	Hip and knee joint
Thurs. Nov. 16	Popliteal fossa, leg overview
Tues. Nov. 21	Posterior & anterior leg
Thurs. Nov. 23	Lateral leg and ankle joint
Tues. Nov. 28	Foot arches, joints, ligament
Thurs. Nov. 30	Intrinsic foot muscles

Lower Limb Lab Schedule

<u>Date</u>	<u>Topic</u>
Week of Oct. 30	Anterior/Medial thigh dissection, self-study lower limb osteology
Week of Nov. 6	Gluteal and Posterior thigh, Hip Joint
Week of Nov. 13	Posterior Leg dissection
Week of Nov. 20	Anterior leg and knee
Week of Nov, 27	Foot
Tues. Dec. 5	Lab Practical 2: Kin Tues group, 3:30-5:30pm
Wed. Dec. 6	Lab Practical 2: PT, 2:30pm
Thurs. Dec. 7	Lab Practical 2: Kin Thurs group, 3:30-5:30pm
Fri. Dec. 8	Lab Practical 2: OT, 8:30-10:30am
Dec. 10-21	Mid-year exam period. Exam date TBA

TERM 2 2017-18

NECK & THORAX – Dr. Johnson

Lecture Schedule

<u>Date</u>	<u>Topic</u>
Tues. Jan 9	Skull, Brain, Brain Stem
Thurs Jan 11	Brain stem, Cranial nerves, Cn VII
Tues Jan 16	CnVII, CnV, Muscles Mastication, TMJ
Thurs Jan 18	Blood Supply to Head & Neck
Tues Jan 23	Triangles of Neck
Thurs Jan 25	Carotid Triangle and root of neck
Tues Jan 30	Thoracic wall, respiration, breasts
Thurs Feb 1	Pleura and lungs
Tues Feb 6	Mediastinum, pericardium
Thurs Feb 8	Heart and coronary circulation
Tues Feb 13	Conductivity and lymphatics
Thurs Feb 15	Posterior mediastinum
Wed Feb 21	Written Exam PT Group: 1:30-2:30pm; Lab Practical 3: PT Group, 2:30-4:30pm
Tues Feb 27	Posterior thoracic wall

[Lab Schedule](#) and instructions will be on the course website:

<u>Date</u>	<u>Topic</u>	<u>Course Lab Notes</u>
Week of Jan 8	Osteology of skull, meninges	follow lab notes
Week of Jan 15	Brain, Muscles of Face, CnVII	
Week of Jan 22	Muscles Mastication, Cn V, TMJ	
Week of Jan 29	Triangles of Neck & Blood supply	
Week of Feb 5	Thoracic Wall, Pleural Cavity & Lungs	
Week of Feb 12	Middle Mediastinum – Heart and Posterior Mediastinum	
Wed Feb 21	Written Exam PT Group: 1:30-2:30pm; Lab Practical 3: PT Group, 2:30-4:30pm	
Week of Feb 26th	Posterior Mediastinum (Kin only)	

ABDOMEN & PELVIS – Dr. Mottola

Kin students only

Lecture Schedule

<u>Date</u>	<u>Topic</u>
Thurs Mar 1	Abdominal Wall & Inguinal Canal
Tues Mar 6	Inguinal Canal & Overview of Digestive System
Thurs Mar 8	Peritoneal Membranes & Abdominal Contents
Tues Mar 13	Abdominal Contents & Portal System
Thurs Mar 15	Posterior Abdominal Wall & Blood/Nerve supply

Tues Mar 20 Urinary System & Kidneys

Thurs Mar 22 Bony Pelvis & Perineum

Tues Mar 27 Pelvic Nerves & Vessels

Thurs Mar 29 Male Pelvic Viscera

Tues April 3 Female Pelvic Viscera

Thurs April 5 Wrap up lecture

Tues April 10 Lab Practical 3: Kin Tues and Thurs groups, 2:30-5:30pm

Kin groups Final Written Exam TBD

[Lab Schedule](#) and instructions will be found on the web site:

Date	Topic	Online Course Lab Notes
Week of Mar 5	Abdominal wall & Inguinal canal	Abdominal wall lab
Week of Mar 12	Abdominal contents	Abdominal contents
Week of Mar 19	Posterior wall of Abdomen (contents will be removed)	Posterior wall
Week of Mar 26	Pelvis, blood vessels, nerves use prosections and intact viscera in cadaver	Pelvis Perineum
Week of April 2	Pelvis & perineum use prosections and intact viscera in cadaver	Pelvis Perineum
Tues April 10	Lab Practical 3: Kin Tues and Thurs groups, 2:30-5:30pm	
	Kin groups Final Written Exam TBD	

9. ADDITIONAL INFO AND RULES

Students may have access to the Lab and Learning Centre during regular hours of each week day, if no class is present. ***Due to security issues the building will lock down at 6pm each night and will not be open on weekends.***

LAB RULES AND REGULATIONS:

1. Food and/or drink are not allowed in the Anatomy lab or Learning Centre.
2. Lab coats and closed-toe shoes are required in the Anatomy lab. Safety glasses are required.
3. The security system locks down the building at 6pm every night, and the lab will not be accessible on the weekends.
4. Extra study hours outside of your designated lab time will be posted on the blackboard in the lab. Please let Haley or Kevin know if you will be in the lab.
5. See Haley about all lab equipment, lab coats and locker combinations.

Statement on Academic Offences

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/schloff.pdf> .

Support Services:

There are various support services around campus and these include, but are not limited to:

1. Student Development Centre -- <http://www.sdc.uwo.ca/ssd/>
2. Student Health -- <http://www.shs.uwo.ca/student/studenthealthservices.html>
3. Registrar's Office -- <http://www.registrar.uwo.ca/>
4. Ombuds Office -- <http://www.uwo.ca/ombuds/>
5. Academic Counselling (Science and Basic Medical Sciences):
<http://www.uwo.ca/sci/counselling/index.html>

Students who are in emotional/mental distress should refer to Mental Health@Western <http://www.uwo.ca/uwocom/mentalhealth/> for a complete list of options about how to obtain help.

10. RESPECTFUL LEARNING ENVIRONMENT

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"We can all learn from each other. To encourage the free and open sharing of information and ideas, we must all work together to develop a respectful and supportive environment. Disrespectful or discourteous behaviour is inappropriate and unacceptable in the classroom."