

ANATCELL 9567L: Cross-sectional & Spatial Anatomy for Radiology

Department of Anatomy and Cell Biology
Schulich School of Medicine and Dentistry
Western University

Course Coordinator: Dr. Tyler Beveridge

Email: tbeverid@uwo.ca

Phone: x86819

Office: MSB 486

Radiology Residency Program Coordinator: Carol Anderson

Email: carol.anderson@lhsc.on.ca

Phone: x32615

Class Meeting Schedule: Monday – Friday in June

Location: MSB 483, & University Hospital (UH) Diagnostic Imaging Facilities

Course Website: <https://owl.uwo.ca/portal>

Participants: Clinical Anatomy MSc Graduate Students & PGY 1 Radiology Residents

1. COURSE FORMAT

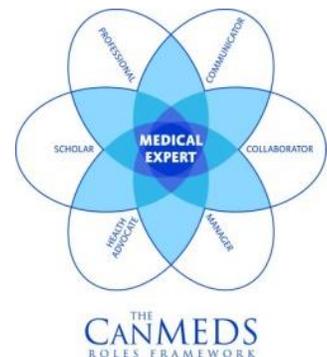
During this four-week rotation, PGY1 radiology residents and clinical anatomy (MSc) students will work in collaboration to develop their skills and knowledge related to cross-sectional anatomy. This will be completed through a reciprocal interaction where the residents will facilitate radiological imaging session with their graduate student colleagues, while the clinical anatomy (MSc) student facilitate their medical colleagues through gross cadaveric dissection. The goal is to leverage the strengths of each group to provide an in-depth exploration of spatial anatomy.

2. COURSE GOALS

This course will develop based on the collective interest of the group. As such, several skills pertaining to the CANMEDS Medical Expert will be developed:

Clinical Decision-Maker:

- Correlate gross anatomy with imaging anatomy, including congenital and anatomic variations
- Review anatomy pertinent to diagnostic radiology, with emphasis on the following areas:
 - Neuroanatomy, including head and neck (includes face, skull base, cranial nerves)
 - Body Cavities: mediastinum, abdomen, pelvis, and all constituent organs and spaces
 - Extremities: Upper and lower limbs, girdles and neurovascular paths



Collaborator:

- Work in partnership with the other programs trainees to optimize learning for all

Health Advocate:

- Abide by the Department of Anatomy & Cell Biology's policy of treating all material in the department including deceased individuals in the cadaver lab with the utmost dignity and respect

Professional:

- Behave in a professional manner (punctual, courteous, diligent, helpful)
- Attend to designated duties unless time off has been prospectively approved (i.e., vacation, professional leave)

Scholar, Manager & Communicator:

- Develop and deliver learning modules for the other team's trainees to complete while in the anatomy lab/medical imaging facilities

3. LEARNING OUTCOMES

In this course, students will learn to:

- 1) Compare and contrast spatial anatomical relationships through gross dissection and radiographic imaging
- 2) Generate differential diagnoses given a radiographic image
- 3) Coordinate and facilitate interprofessional cooperative small group learning

4. COURSE WEBPAGE

All course readings and supplementary materials will be provided in class or made available electronically through the OWL site for this course: <https://owl.uwo.ca/portal>

5. COURSE REQUIREMENTS & GRADING

All students are expected to:

- 1) Attend and be punctual for teaching sessions,
- 2) Participate actively in class discussion,
- 3) Coordinate and lead a proportionate amount of their groups respective teaching (i.e., either residents facilitating radiographic chart reviews, or MSc students facilitating gross dissection labs)

This course is a 0.5 credit pass/fail course. Success is based on 80% attendance and completion of the dissection/weekly case scenarios.

6. CONFIDENTIALITY

The nature of this course will deal with sensitive and confidential information. Please familiarize yourself with the privacy and confidentiality policy for LHSC. The required training module can be accessed at:

https://www.lhsc.on.ca/doc/orientation/privacy-confidentiality/story_html5.html

7. 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 the [Student Services](#) site, and for further policy information please read the [Medical Accommodations Policy](#)

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 on the [Student Services](#) site. Hard copies are available from the student's home Faculty Academic Counseling 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 Counseling Service. Documentation from Hospital Urgent Care Centre 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://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform_15JUN.pdf

8. RECOMMENDED RESOURCES

Textbooks:

1. [Netter's Atlas of Human Anatomy](#)

A traditional atlas with comprehensive illustrations. This resource does not contain written descriptions.

2. [Gray's Anatomy for Students](#)

A popular textbook containing the most clinically pertinent parts of Gray's Anatomy. Contains great descriptions along with informative illustrations.

3. [Rohen's Colour Atlas of Anatomy](#)

A photographic atlas containing real cadaveric images.

Websites:

<https://radiopaedia.org/>

<http://learningradiology.com/index.htm>

9. CLASS SCHEDULE

This course will run during PGY1 Block 13 in June. As the course goals and learning outcomes have been intentionally designed to allow freedom of exploration, the class schedule is flexible and should be discussed amongst your peers. In general, the schedule is as follows:

<i>Dates</i>	<i>Theme</i>	<i>Dissections*</i>	<i>Radiographic Cases*</i>
Week 1	Thorax	To be coordinated and facilitated by the Clinical Anatomy students. Radiology residents are <u>expected</u> to request/direct the topics covered	To be coordinated and facilitated by the Radiology residents. Clinical Anatomy students may request the topics covered
Week 2	Abdomen		
Week 3	Head & Neck		
Week 4	Limbs		

*Class times will be determined at the class introduction.