

# ACB9561

## Course Outline 2022-2023

---

### Overview:

This course is a detailed study of the cellular and microscopic structure of the various tissues and organ systems of the body, with an emphasis on humans and other mammals used in medical research. Systems are examined stressing the relations of structure to function. The course expects, and highly encourages, student participation and uses microscopic exploration of histologically sectioned material and demonstrations. The course has the following components:

- 1) **Lectures and Labs:** Students are enrolled in the 3<sup>rd</sup> year Undergraduate Histology Course **ANATCELL3309**. Lectures are delivered and recorded with ECHO360, or students may attend live with the F2F group. Course materials, including the schedule, lecture notes and PowerPoint slides will be available on the **ANATCELL3309 OWL site**.
  - 2) **Tutorials:** We will meet every **Friday 9:00-11:00 AM in DSB 2010**, for student led discussions and to study microscopic slides. Materials, as required, will be posted on the **ANATCELL 9561 OWL site**.
- **Before each Tutorial on Fridays, students are expected to have viewed the relevant lectures on ECHO360 (Tuesdays and Thursdays) and watched the pre-recorded lab talk on ECHO360 from a previous year (this will be on the ANATCELL9561 OWL site). ALL students are expected to be prepared to lead a discussion on that week's lectures and lab. Each Friday the topic will focus on the ANATCELL 3309 lab scheduled for the following Monday.**
  - **One student will be randomly selected at the beginning of class to lead the discussion. The remaining students will play a supportive role, asking questions to guide the discussion. Student performance in both roles will contribute to the weekly grade for the class. You are not expected to have a formal slide presentation, but feel free to have a slide or two with concepts to guide your presentation. This is completely optional.**
  - **Once your name has been selected, it will go back into the pool for the upcoming weeks.**
  - **Life can sometimes get in the way of your studies. Once a semester you can get a pass if your name is selected and you were not able to prepare.**

### Learning Outcomes:

By the end of the course students will be able to:

- a) explain structure/function relationships of tissues, organs, and their parts at the microscopic level.
- b) navigate histological sections using both a real and a virtual microscope.
- c) identify and name tissues, organs and their parts in microscopic images.
- d) discuss clinical scenarios and their histological manifestations.
- e) lead small group discussions on histology content.

**Times and Location:**

**Lectures ANATCELL 3309:** Tuesdays, Thursdays, 11:30 AM-12:30 PM in SEB 2200, or recorded and archived in ECHO360.

**Labs ANATCELL 3309:** Archived on ECHO360 and available in advance of Friday tutorial

**Tutorials:** Fridays, 9-11 AM in DSB 2010

**Instructor Information:**

Kem Rogers, HSA027, [krogers@uwo.ca](mailto:krogers@uwo.ca).

**Recommended Texts:**

- Histology: A Text and Atlas, Pawlina, W. 8<sup>th</sup> Edition
- A Photographic Atlas of Histology, Leboffe, M.J., 2<sup>nd</sup> Edition
- Netter's Histology, Ovalle and Nahirney

***Note:** If you already have a histology text there is no need to purchase the recommended texts. Any other histology text is acceptable as well.*

**Online Virtual Slide Boxes:**

<http://histologyguide.org/index.html>

<http://www.mbfbioscience.com/iowavirtualslidebox>

<http://histology.medicine.umich.edu/full-slide-list>

**Assessments and Mark Breakdown:****Assessment (Fall term): 20%**

Weekly Histology discussions, presentation and participation.

**Fall Exam: 30%**

Written exam consisting of 50 images, multiple choice questions and 2 essay questions

**Assessment (Winter term): 20%**

Weekly Histology discussions, presentation and participation.

**Winter Assessment: 30%**

Written exam consisting of 50 images, multiple choice questions and 2 essay questions