



Western University is committed to a **thriving campus**. We encourage you to check out the [Digital Student Experience](#) website to manage your academics and well-being. Additionally, the following link provides available resources to support students on and off campus: <https://www.uwo.ca/health/>.

## ANATCELL/PATH 4425B, Advanced Clinical Histology

### Course outline for W2023, revised December 2023

#### 1. Technical Requirements:

	<b>Laptop or computer</b>
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#### 2. Course Overview and Important Dates:

Delivery Mode	Dates	Time
In person	Tuesdays	2:30 PM - 4:30 PM EST
In person	Thursdays	2:30 PM - 4:30 PM EST

\*Details about design and delivery of the course are listed below in Section 4



##### Important Dates:

Classes Start	Reading Week	Classes End	Study days	Exam Period
January 8	February 17 - 25	April 4	April 11-13	April 13- 30

\*March 7, 2024: Last day to drop a second-term half course without penalty.

#### 3. Contact Information

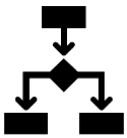


Course Coordinators	
Dr. Douglas Hamilton	douglas.hamilton@schulich.uwo.ca
Course Instructors	
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Dr. Liena Zhao	liena.zhao@lhsc.on.ca
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Dr. Vasu Bhat	
Course TAs	
Justin Carmichael	jcarmi25@uwo.ca

#### 4. Course Description and Design

ANATCELL/PATH 4425 is an advanced clinical histology course that focuses on the microscopic evaluation and interpretation of tissue sections obtained from humans and animals. Lectures and laboratory sessions will focus on examining select histology specimens obtained from healthy tissue/organs and from humans and animal models of disease.

Mode	Dates	Time	Frequency	Location
Lectures, in person	Tuesdays	2:30 PM - 4:30 PM EST	weekly	MSB282
Labs, in person	Thursdays	2:30 PM - 4:30 PM EST	weekly	DSB2005A



- Lectures will take place in person.
- Lab sessions will take place in person in **DSB 2010** or online using zoom.
- Microscopes and Materials will be provided.
- Attendance at Labs is required.
- Lab coats and goggles are **NOT** required.
- Missed work should be completed within 48 hours.

- All course material will be posted to OWL: <http://owl.uwo.ca>. Any changes will be indicated on the OWL site and discussed with the class.
- Students needing assistance can seek support on the [OWL Help page](#). Alternatively, they can contact the [Western Technology Services Helpdesk](#). They can be contacted by phone at 519-661-3800 or ext. 83800.

[Google Chrome](#) or [Mozilla Firefox](#) are the preferred browsers to optimally use OWL; update your browsers frequently. For evaluating internet speed, please click [here](#).

#### 5. Learning Outcomes



Upon completing the course, you will be able to:

- a) demonstrate proficiency in the proper use of the light microscope in examining histological specimens on glass slides.
- b) describe the normal microscopic organization of major tissues and organs.
- c) contrast the normal histology to changes seen in the diseased tissues.
- d) predict morphological, histological, and physiological outcomes as a result of disease.

## 1. Course Content and Schedule

Week	Block	Month	Day	Format	Topic	Instructor
1	1	January	9	Lecture	Introduction to the course	Dr. Hamilton
			11	Lab	Basic Tissue Structures with examples	
2			16	Lecture	Disease models and Histology	
			18	Lab	Slides with examples	
3			23	Lecture	Connective Tissue Histology	
			25	Lab	Slides with examples	
4	2		30	Lecture	Connective Tissue Pathology - Skin and Periodontium	Dr. Hamilton
		February	1	Lab	Slides with Examples	
5			6	Lecture	Connective Tissue Pathology - Bone and Cartilage	
			8	Lab	Slides with examples	
6			13	Lecture	Connective Tissue Research and animal models	
			15	Lab	Slides with examples	
8		<b>Spring Reading Week (Feb 17-25): NO CLASS</b>				
7	3	February	27	Lecture	Normal Breast Histology	Dr. Zeman-Pocrnich
			29	Lab	Slides with examples	
9		March	5	Lecture	Breast Pathology	
			7	Lab	Slides and examination	
10			12	Lecture	Breast Cancer Diagnostics	
			14	Lab	Slides with examples	
11	4		19	Lecture	Normal Gastrointestinal and	Dr. Zhao
			21	Lab	Slides with examples	
12			26	Lecture	Gastrointestinal Pathology/Diagnostics and	
			28	Lab	Slides with examples	
13		April	2	Lecture	Hepatopancreaticobiliary Pathology/Diagnostics and animal models	
			4	Lab	Slides with examples	

## 6. Evaluation

Below is the evaluation breakdown for the course. Any deviations will be communicated.

Assessment	Format	% of Final Mark	Date
Assignment Block 1		10	TBA
Quiz Block 1		10	TBA
Assignment Block 2		10	TBA
Quiz Block 2		10	TBA
Assignment Block 3		10	TBA
Quiz Block 3		10	TBA
Assignment Block 4		10	TBA
Quiz Block 4		10	TBA
Final Exam		20	TBA

### Absence from Course Commitments

#### [Policy on Academic Consideration for Student Absences](#)

If you are unable to meet a course requirement due to illness or other serious circumstances, you must seek approval for the absence as soon as possible. Approval can be granted either through a **self-reported absence** or via the **Academic Counselling** unit. Students have two self-reports to use throughout the academic year; absence from course commitments including tests, quizzes, presentations, labs, and assignments that are worth 30% or less can be self-reported. Self-reported absences cover a student for 48 hours (yesterday + today or today + tomorrow). Your instructor will receive notification of your consideration; however, you should contact your instructor immediately regarding your absence. Students are expected to submit missed work within 24 hours of the end of the 48-hour period. Please review details of the [university's policy on academic consideration for student absences](#).

If you have used both self-reported absences or will miss more than 48 hours of course requirements, a Student Medical Certificate (SMC) should be signed by a licensed medical or mental health practitioner and you should contact academic counselling. Academic Counselling will be operating virtually this year and can be contacted at [scibmsac@uwo.ca](mailto:scibmsac@uwo.ca).

#### Information about late or missed evaluations:

- Students are required to self-report absences from assessments.
- Students have two self-reports to use throughout the academic year. They may self-report their absence for course commitments including term tests, quizzes, presentations, labs and assignments that are worth 30% or less. If students have used their two self-reported absences and get sick again, they must fill out an SMC and contact academic counselling.
- Late assignments without illness report submitted within 24 hours past the deadline will be subject to a 50% grade deduction on that assignment. Late assignments will not be accepted more than 24 hours past the deadline.
- Late assessments with illness self-reports should be submitted within 24 hours of submission of the last illness self-report.

A make-up exam will be offered.

If a make-up assessment is missed, the student will receive an INC and complete the task the next time the course is offered.

Click [here](#) for a detailed and comprehensive set of policies and regulations concerning examinations and grading. The table below outlines the University-wide grade descriptors.

A+	90-100	One could scarcely expect better from a student at this level
A	80-89	Superior work which is clearly above average
B	70-79	Good work, meeting all requirements, and eminently satisfactory
C	60-69	Competent work, meeting requirements
D	50-59	Fair work, minimally acceptable
F	below 50	Fail

## 7. Communication:

- Students should check the OWL site every 24 – 48 hours.
- Students should contact their instructor(s) and teaching assistant(s) by email.
- Emails will be monitored daily; students will receive a response in 24 – 48 hours
- Students should use the Q&A forum on ECHO360 for questions and discussions.
- Students should post all course-related content on the ECHO360 forum so that everyone can access answers to questions
- The discussion forums will be monitored daily by instructors or teaching assistants.



## 8. Office Hours:



- Office hours may be held upon email request using Zoom.

## 9. Resources and Texts



- All resources will be posted in OWL
- Recommended Textbook:** Histology: A Text and Atlas, Pawlina, W. 8<sup>th</sup> Edition
- Recommended Atlas:** A Photographic Atlas of Histology, Leboffe, M.J., 2<sup>nd</sup> Edition

## 10. Professionalism & Privacy:

Western students are expected to follow the [Student Code of Conduct](#). Additionally, the following expectations and professional conduct apply to this course:



- Students are expected to follow online etiquette expectations provided on OWL
- All course materials created by the instructor(s) are copyrighted and cannot be sold/shared
- Recordings are not permitted (audio or video) without explicit permission
- Permitted recordings are not to be distributed
- Copying of assignments is considered plagiarism and will be handled and reported as academic misconduct.
- Students will be expected to take an academic integrity pledge before some assessments
- All recorded sessions will remain on ECHO360.

## 11. How to Be Successful in this Class:

Students enrolled in this class should understand the level of autonomy and self-discipline required to be successful.



1. Invest in a planner or application to keep track of your courses. Populate all your deadlines at the start of the term and schedule time at the start of each week to get organized and manage your time.
2. Make it a daily habit to log onto OWL to ensure you have seen everything posted to help you succeed in this class.
3. Create weekly checklists to help you stay on track.
4. Take notes as you go through the lesson material. Treat this course as you would a face-to-face course. Keeping handwritten notes or even notes on a regular Word document will help you learn more effectively than just reading or watching the videos.
5. Connect with others. Try forming an online study group and try meeting on a weekly basis for study and peer support.
6. Do not be afraid to ask questions. If you are struggling with a topic, check the online

- discussion boards or contact your instructor(s) and or teaching assistant(s).
7. Reward yourself for successes. It seems easier to motivate ourselves knowing that there is something waiting for us at the end of the task.

## **12. Western Academic Policies and Statements**

### **Absence from Course Commitments**

#### [Policy on Academic Consideration for Student Absences](#)

In the interest of the health and safety of students and health care providers, you are no longer required to seek a medical note for absences this term. If you are unable to meet a course requirement due to illness you should use the [Illness Reporting Tool](#). This tool takes the place of the need to submit a medical note and the Self-Reported Absence System formally used by undergraduate students.

You are required to self-report every day that you are ill and unable to complete course commitments. Details about when you should submit missed work, the format of the missed work can be found in the Section 7. Evaluation above. Students should communicate promptly with their instructor and use this tool with integrity.

### **Accommodation for Religious Holidays**

The policy on Accommodation for Religious Holidays can be viewed [here](#).

### **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. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examinations dates. These dates as well as other important information about examinations and academic standing can be found [here](#).

### **Academic Offenses**

“Scholastic offences are taken seriously, and students are directed [here](#) to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence.

### **Accessibility Statement**

Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation or review [The policy on Accommodation for Students with Disabilities](#).

## Correspondence Statement

The centrally administered **e-mail account** provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner. You can read about the privacy and security of the UWO email accounts [here](#).

## Turnitin and other similarity review software

All assignments will be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. Students will be able to view their results before the final submission. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and [Turnitin.com](#).

## 13. BMSUE Academic Policies and Statements

### Copyright and Audio/Video Recording Statement

Course material produced by faculty is copyrighted and to reproduce this material for any purposes other than your own educational use contravenes Canadian Copyright Laws. You must always ask permission to record another individual and you should never share or distribute recordings.

### Rounding of Marks Statement

Across the Basic Medical Sciences Undergraduate Education programs, we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. **Final grades** on this course, irrespective of the number of decimal places used in marking individual assignments and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.4 becomes 74, and 74.5 becomes 75. Marks WILL NOT be bumped to the next grade or GPA, e.g. a 79 will NOT be bumped up to an 80, an 84 WILL NOT be bumped up to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for mark "bumping" will be denied.

## 14. Support Services

The following links provide information about support services at Western University.

[Academic Counselling \(Science and Basic Medical Sciences\)](#)

[Appeal Procedures](#)

[Registrarial Services](#)

[Student Development Services](#)

[Student Health Services](#)