

## Pathology and Laboratory Medicine / One Health

### ONE HEALTH IN ACTION

### OH3600

#### Course outline for Spring 2023

Lecture Room: Visual Arts Centre (VAC), room 100



Although this academic year might be different, 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/>.

#### Revised on Dec 1<sup>st</sup>, 2022.

Although the intent is for this course to be delivered **in-person** (with an online component), the changing COVID-19 response landscape may necessitate this course to be delivered online either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). This course has no exams; thus, the grading scheme will not change.

Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service.

#### 1. Technical Requirements:



Stable internet connection



Laptop or computer



Working microphone



Working webcam

## 2. Course Overview and Important Dates:

This course lectures<sup>1</sup> will be delivered in person, with tutorials and group online sessions<sup>2</sup> Virtual/online sessions will be a combination of live synchronous and recorded sessions as well in person activities if possible. Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions. \* This course outline will be further revised **if needed** to adapt to the evolving nature of the Covid-19 crisis.



Mode	Dates	Time	Frequency	Attendance
Virtual / Live synchronous	T	2:30pm-3:30pm EST	Weekly	Required (As needed)
In Person	Th	2:30pm-4:30pm EST	Weekly	Required
Virtual recorded <sup>2</sup>	N/A	N/A	Weekly	As needed
Virtual office hours <sup>3</sup>	T	2:30pm-3:30pm EST and other times.	Weekly	As needed

<sup>1</sup> A schedule will be posted for weekly session/activities; <sup>2</sup> Virtual live synchronous and asynchronous sessions will be recorded for later viewing (if needed). <sup>3</sup> The course coordinator will be available for office hours, which must be scheduled via email.

### Important Dates

Classes Start	Spring Break	Classes End	Study Day(s)	Exam period
January 10	February 18-26	April 6	April 7-12	April 13-30

## 3. Contact Information



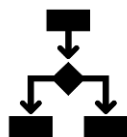
Name	Contact Information
<b>Dr. Francisco Olea Popelka</b> Chair in One Health & Associate Professor Course Coordinator	Use OWL message or direct email at: <a href="mailto:foleapop@uwo.ca">foleapop@uwo.ca</a>
<b>Cheryl Campbell</b> Undergraduate Education Program Coordinator, Department of Pathology and Laboratory Medicine	<a href="mailto:ccampbel@uwo.ca">ccampbel@uwo.ca</a>
<b>Moheem Halari, MBBS, MSc</b> Doctoral Candidate, Pathology & Laboratory Medicine	<a href="mailto:mhalari@uwo.ca">mhalari@uwo.ca</a>

#### 4. Course Description and Design

##### GENERAL OUTLINE

This course represents a core learning experience for students in One Health. Fundamental research and methodologic approaches in One Health will be emphasized, including: study designs; data systems and surveillance; data analytics; informatics; collaboration and teamwork in interdisciplinary teams; engaging stakeholders; advocacy and the role of One Health in informing policy; and integrating One Health into governance systems. Students will synthesize and integrate these fundamental concepts during critical evaluations of contemporary One Health case studies.

This class will **meet once weekly in person for lectures on Thursdays**. Lectures will be dedicated to reviewing topics and concepts, and discussions of One Health research and “real world” case examples. Students will have the opportunity to interact with instructors actively engaged in One Health research. Students are expected to attend all class sessions.



Mode	Dates	Time	Frequency
In Person <b>lectures</b>  (virtual sessions Synchronous as needed)	<b>Thursday</b>	2:30-4:30pm	Weekly
Group activities, Office Hours Tutorials	Tuesdays	2:30-3:30pm	Weekly
Virtual Sessions Asynchronous	Weekly lesson's material (i.e. slides, readings) are posted weekly	-	Weekly

- Recorded (asynchronous) pre-work must be completed [at least 1 days] prior to live (synchronous) sessions
- Attendance at live (synchronous) sessions is required
- Missed work should be completed within [48] hours
- A recording will be provided for live (synchronous) sessions

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.

If students need assistance, they 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. Students interested in evaluating their internet speed, please click [here](#).

## 5. Learning Outcomes

Upon completion of this course, students should:

1. Have an understanding of One Health research, and the key features that differentiate a research study using a One Health approach.
2. Be able to identify and discuss key study designs in One Health.
3. Identify and discuss the myriad ethical considerations in One Health research.
4. Identify and discuss strategies to address ethical considerations in One Health research.
5. Identify and discuss key methodologic and analytic approaches in One Health research.
6. For a given health problem, identify and discuss the role of key stakeholders using the One Health approach.
7. Identify and discuss strategies for engaging stakeholders to develop solutions to One Health problems.
8. Identify and discuss strategies for implementing One Health findings into policy and institutional “solutions”.
9. Gain familiarity with the One Health scientific literature.
10. Critically appraise One Health case studies using the scientific literature and the One Health approach.

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## 6. Course Content and Lectures Schedule



DATE	TOPIC	INSTRUCTOR
Week 1 Thursday January 12	Introduction to the course Course structure / expectations <b>Case 1</b> One Health approach for <b>Tuberculosis and Rabies</b>	FJOP
Week 2 Thursday January 19	<b>Case 2:</b> One Health approach for: <b>Walpole Island</b>	GM
Week 3 Thursday January 26	<b>Case 3:</b> One Health approach for: <b>Bats and viruses</b>	RT
Week 4 Thursday February 2	<b>Case 4:</b> One Health approach for: <b>Wine Niagara</b>	AS
Week 5 Thursday February 9	<b>Case 5:</b> One Health approach for: <b>Antimicrobial Resistance</b>	ET
Week 6 Thursday February 16	One Health Students Projects <b>Students Oral Presentations</b>	FJOP
Week 7 February 18-26	<b>SPRING BREAK</b>	
Week 8 Thursday March 2	<b>Lesson 5:</b> One Health approach for: <b>Food Safety</b>	TBC
Week 9 Thursday March 9	<b>Lesson 6:</b> One Health approach for: <b>Water Safety and Security</b>	TBC
Week 10 Thursday March 16	<b>Lesson 7</b> 'Case' example One Health approach for: <b>Mercury, water, fish, humans</b>	BB
Week 11 Thursday March 23	<b>Lesson 8</b> 'Case' example One Health approach for: <b>Climate Change and Health</b>	AG
Week 12 Thursday March 30	<b>Lesson 9:</b> 'Case' example One Health approach for: <b>Mink / Covid-19</b>	FJOP
Week 13 Thursday April 6	One Health Students Projects <b>Final Oral Presentations</b>	FJOP
April 7 to 10	<b>STUDY DAYS</b>	
April 13-30	<b>SPRING EXAM PERIOD</b>	

## 7. Online Participation and Engagement



- Students are expected to participate and engage with content as much as possible
- Students can participate during all sessions or post on OWL after watching the recording
- Students can also participate by interacting in the forums with their peers and instructors

## 8. Evaluation

### Assessments & Evaluation

The student's grade for this course will be determined as follows:

	COMPONENT	% OF FINAL GRADE
One Health Term Project	<b>One Health Term Project: Oral Component</b>	<b>40% (Total)</b>
	Initial Progress Oral Presentation	20%
	Final Oral Presentation	20%
One Health Term Project	<b>One Health Term Project: Written Component</b>	<b>40% (Total)</b>
	Part 1: Team structure, responsibilities, tasks, and timeline.	10%
	Part 2: Title and Proposed Summary & Goals	10%
	Part 3: Final, Revised Report	20%
Peer Evaluation	<b>Peer Evaluation of Group Work</b>	<b>10% (Total)</b>
Participation	<b>Course participation</b>	<b>10% (Total)</b>
	<b>TOTAL</b>	<b>100%</b>

**One Health Term Project (Written Component, 40%):** The Term Project is designed to allow students to work with peers (classmates) in groups of 4-5 students to develop a **One Health action plan** to address a health issue. The written component of the Term Project is divided in to three distinct parts, with due dates for these parts spread throughout the term. Detailed instructions for the Term Project, the three distinct parts, and grading rubrics, are provided separately and available in the course OWL site. All parts of the written component of the Term Project will be submitted through OWL and evaluated by TurnItIn. *Please note:* all parts to the Term Project are due on the date and time listed in this Syllabus. For each 24 hour period, or part thereof, that any part of the Term Project is submitted after the posted date and time, 25% will be deducted from the earned grade. No part of the assignment will be accepted if it is submitted more than 4 days (four 24 hour periods, or part thereof) after the posted due date and time. Please plan accordingly.

**One Health Term Project (Oral Component, 40%):** The goal of the oral component of the Term Project is to provide student with an opportunity to develop group-based oral presentation skills and the ability respond to questions. The first oral presentation (initial progress report) is an opportunity to introduce your topic, your team, action plan and one health approach to be used, progress to date, and to convey the importance of your work to the audience. Each presentation will be for approximately 15-20 minutes. Do keep in mind that your audience will comprise of 'non-experts' in the field. You should clearly describe the problem/knowledge gap, the project main goal, the methodology you will use, and your preliminary and expected results. You should clearly describe how the use of a one health approach is relevant (useful/beneficial) to the specific health topic (research question) under investigation. For the final oral presentations, (12-15 minutes) students will present their final action plans, evaluation plans, outcomes, as well as discussing the significance and implication of their work. Specific guidelines and grading rubrics will be provided in advance via OWL and discussed in class. **All students will be required to deliver an oral presentation to describe a particular aspect or section of the One Health project**, and 20% of the final course grade will be assigned to each individual student based on each student's oral presentation.

**Special Note on Group Work and Course Grading:** The Term Project will be completed in groups. Being able to effectively work in groups is a key skill and competency for one health and, thus, it is essential that students develop the communication skills and professionalism to be able to work in groups that can consist of a wide variety of individuals, colleagues, and professionals from different backgrounds, expertise, and perspectives. While groups will be established and topics assigned by the course coordinator, it is expected that groups establish their own working arrangements and expectations, and that they manage tasks, timelines, workloads, and resolve conflicts and tensions within their own group (also important skills). In rare cases or uncommon, extenuating circumstances wherein issues cannot be resolved or managed within a group, the course coordinator will be available to assist, or intervene when necessary.

It is the intent that all members of the group receive the same grade **written components** of the Term Project (a total of 40% of the course final grade). For the **oral presentation** component (with a total of 40% of the course total), each student will present on behalf of the group different sections of the project, and each student will get an **individual grade** based on her/his presentation skills that will be worth 20% of the student final course grade. The remaining 20% of the oral component will be a grade assigned equally to every member of the group.

However, the **course coordinator reserves the right to adjust and individual student's grade** for any or all components of the Term Project based on the circumstances of these rare cases, consultation with the other group members, and / or based on a student's evaluation by their peers. The amount of adjustment to an individual student's Term Project grade will be at the discretion of the course coordinator but, in extreme cases, when, **for example, a student simply does not contribute at all (or very minimally) to the group's work, the course coordinator reserves the right to assign that student a grade of 0%** for each part to which the student did not contribute, or the entirety of the Term Project if appropriate.

**Peer Evaluation of Group Work (10%):** Using a standardized assessment tool (to be posted in OWL) on group work skills and competencies, students will complete evaluations of their peers on their peer's group work and contributions to the group. As Term Project groups will contain 3-4 students, each student will receive 2-3 evaluations, the scores from which will be averaged, and that will comprise 10% of the student's final grade. It is mandatory that all students complete all peer evaluations for their fellow students; a student who does not complete and submit all their peer evaluations will have their own grade withheld until their evaluations are complete. Students will receive the evaluations from their peers (anonymized).

**Class Participation (10%):** Participation will be evaluated by the course coordinator and based on class/sessions attendance as well on **activate participation** (i.e., speaking, sharing ideas, asking question, providing feedback) on oral discussions, oral presentations, and written forums.

- All assignments are due at 11:55 pm EST unless otherwise specified
- Written assignments will be submitted to Turnitin (statement in policies below)
- Rubrics will be used to evaluate assessments and will be posted with the instructions
- After an assessment is returned, students should wait 24 hours to read feedback before contacting their evaluator; to ensure a timely response, reach out within 7 days

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

\*\*\*\*\***ABSENCE FROM COURSE COMMITMENTS**\*\*\*\*\*

Communication between students and the course coordinator (and instructors): Students **must** follow all Western University guidelines and procedures outlined below. However, in addition, students **must directly contact the course coordinator** via email and in person (if possible) to inform them about any deviation or special request regarding deadlines for course commitments (One Health written project and oral presentation, and final exam), **before** (and not after) the due date for the task at hand.

\*\*\*\*\***ABSENCE FROM COURSE COMMITMENTS**\*\*\*\*\*

**Information about late or missed evaluations:**

- Late assessments without illness self-reports will be subject to a late penalty 25 %/day
- Late assessments with illness self-reports should be submitted within 24 hours of submission of the last illness self-report

**9. Communication:**



- Students should check the OWL site every 24 – 48 hours
- Students should email their instructor(s) and teaching assistant(s) using OWL “messages” or directly to the course instructor at [foleapop@uwo.ca](mailto:foleapop@uwo.ca)
- Emails will be monitored daily; students will receive a response in 24 – 48 hours
- This course will use the OWL forum for discussions
- Students should post all course-related content on the discussion forum so that everyone can access answers to questions
- The discussion forums will be monitored daily by instructors or teaching assistants

**10. Office Hours:**



- Office hours will be held remotely using Zoom and arranged individually with students.
- Students will be able to sign up for an appointment emailing the course instructor

**11. Resources**



- All resources will be posted in OWL



## 12. 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
- Students will be expected to take an academic integrity pledge before some assessments
- All recorded sessions will remain within the course site or unlisted if streamed

## 13. 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. Follow weekly checklists created on OWL or create your own 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.

## 14. 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](#).

## **15. BMSUE Academic Policies and Statements**

### **Cell Phone and Electronic Device Policy (for in-person tests and exams)**

The Schulich School of Medicine & Dentistry is committed to ensuring that testing and evaluation are undertaken fairly across all our departments and programs. For all tests and exams, it is the policy of the School that any electronic devices, i.e., cell phones, tablets, cameras, or iPod are strictly prohibited. These devices **MUST** be left either at home or with the student’s bag/jacket at the front of the room and **MUST NOT** be at the test/exam desk or in the individual’s pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam. Non-programmable calculators are only allowed when indicated by the instructor. The program is not responsible for stolen/lost or broken devices.

## 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.

## 16. 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](#)