

# **PUBHLTH/HRM 707: Advanced topics in epidemiology**

## **Course overview and introduction**

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*Associate Professor*

*Department of Health Research Methods, Evidence, and Impact*



# Outline

1. Course outline
2. Course conduct
3. Course evaluation

# Course outline

Date	Lecture Room	Session	Instructor(s)	Content
Jan 5	online	1	Lawrence Mbuagbaw	Making sense of data and causal inference
Jan 12	online	2	Lawrence Mbuagbaw	Ecological studies
Jan 19	online	3	Lawrence Mbuagbaw	Outbreak epidemiology
Jan 26	online	4	Lehana Thabane	Community based trials
Feb 2	online	5	Lawrence Mbuagbaw	Interrupted time series to evaluate health policies
Feb 9	online	6	Lawrence Mbuagbaw	Methodological studies
Feb 16	online			Family day week
Feb 23	online	7	Lawrence Mbuagbaw	Measures of socio-economic status
Mar 2	online	8	Lawrence Mbuagbaw	Chart review studies
Mar 9	online	9	Behnam Sadeghirad	Surveys, surveillance, and monitoring
Mar 16	online	10	Mackenzie Slifierz	Spatial epidemiology
Mar 23	online	11	Mackenzie Slifierz	Social epidemiology
Mar 30	online	12	Lawrence Mbuagbaw	Propensity score analyses
April 6	online	13	Lawrence Mbuagbaw	Final presentations
Room holds:	N/A			

**1:00 pm – 4:00pm**  
**Zoom**

# Course outline

- Additional topics:
  - Network analyses

# Course conduct

- Weekly lectures via Zoom
  - In-depth discussions
  - Slides will be put up on **Avenue** after the lectures
  - No tutorials
- Weekly readings (sometimes)
- In class exercises (sometimes)
- Discussions on Avenue (if you want)
  - Set up for alerts
- Final assignment
  - Report of analyses
- No office hours
- Course evaluation



# avenue to learn

- **Course essentials**

- Course summary
- Examples for the final assignment
- Slide template for final presentation

- **Modules**

- Session outline
  - Objectives
  - Readings
  - Assignment
- Slides
- No PDFs of articles

**Use for discussions?**

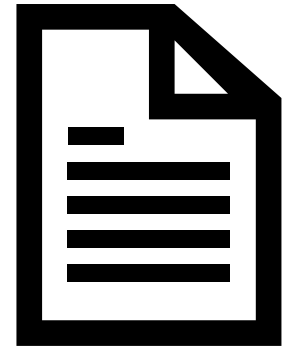
# Course evaluation: Assignments

- During each session, students will be expected to complete a hands-on exercise to demonstrate practical knowledge of the material covered.
- Assignments may also be “take-home”
- Grades from these assignments will consist of **30%** of your total grade.



# Course evaluation: Final assignment

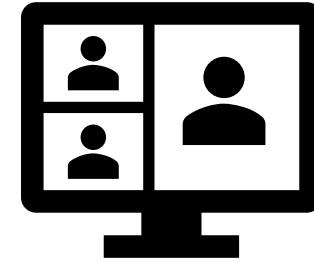
- A report on critical and statistical appraisal of a paper on one of the topics in the course.
- Two (2) page max (excluding references)
- Single spaced, 11-point font, Times New Roman
- Grades from these assignments will consist of **30%** of your total grade.
- **Select a topic by March 2nd**
- **Assignment due on March 30th**





# Course evaluation: Final presentation

- A presentation on your critical and statistical appraisal of a paper on one of the topics in the course.
- 10 mins
- 10 slides (excluding title slide and references)
- Grades from these assignments will consist of **40%** of your total grade.
- **Final presentation on April 6th**



# Attendance

**Attendance**



- Mandatory for all sessions
- Declare all absences at least 24 hours before (max of 2 are allowed)
- Inform lecturer and course coordinator





Lawrence Mbuagbaw



Lehana Thabane



Behnam Sadeghirad



**Mackenzie Slifierz**

# What I need from you:

## 1. Communication

- All emails should have “**PUBHLTH/HRM 707**” in the title.

## 2. Attendance

- Show up and participate

## 3. Other topics?



# Final words

- Ask questions
- Read the readings
- Discuss among yourselves
- Email me if you have any [course-related] problems:  
[mbuagblc@mcmaster.ca](mailto:mbuagblc@mcmaster.ca)
- Enjoy the course!

