

# ALHS 4320 Fall 2022 Syllabus

## Instructor Information

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**Professor:** Christina Tuell, EdD, CHES  
**Phone:** 903-969-0782 (this is my cell, you are welcome to call/text as needed)  
**Email:** [ctuell@uttyler.edu](mailto:ctuell@uttyler.edu)  
**Office:** N/A  
**Office Hours:** By appointment

## Course Information

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**Lecture:** Tuesday & Thursday, 9:30 - 10:50 am  
Teams  
[Click here to join the meeting](#)  
Meeting ID: 233 800 762 282  
Passcode: 4hvJn4

## Course Description

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Study of the distribution and determinants of disease, disability, disorders, morbidity and mortality in human populations.

Topics covered in this course include: basic principles of epidemiology; measures of disease frequency; epidemiologic study designs: experimental and observational; bias; confounding; outbreak investigations; screening; causality; and ethical issues in epidemiologic research. In addition, students will develop skills to read, interpret and evaluate health information from published epidemiologic studies.

This course has two main components course discussion during scheduled class time and asynchronous learning opportunities. Actively participating in both components is essential to your success in this course.

## Learning Objectives

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By the end of this course students will develop the ability to:

- Explain the role of epidemiology in public health.
- Describe the range of epidemiologic study designs used to examine the health status of a population and be able to evaluate the strengths and limitations of each.
- Discuss and apply epidemiological criteria needed to establish causal relationships.
- Define, calculate, interpret and compare health indicators most commonly used in epidemiology.

## Course Requirements and Expectations

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### Required Resources

- Online text: Principles of Epidemiology: An Introduction to Applied Epidemiology and Biostatistics. <https://www.cdc.gov/csels/dsepd/ss1978/index.html>
- Epiville: <https://epiville.ccnmtl.columbia.edu/modules.html>
- Solve the Outbreak: <https://www.cdc.gov/mobile/applications/sto/web-app.html>

### Additional Resources

- **Epidemiology, the Internet and Global Health.**  
An online compilation of hundreds of lectures on a wide variety of topics; I would recommend this site to anyone interested in further reading on a specific subject area. The site can be accessed at <http://www.pitt.edu/~super1/>
- Two YouTube playlists [Crash Course](https://youtube.com/playlist?list=PL8dPuuaLjXtPkACD-BkU-oM6PUotjdCEk) <https://youtube.com/playlist?list=PL8dPuuaLjXtPkACD-BkU-oM6PUotjdCEk> and one I compiled <https://youtube.com/playlist?list=PL8dPuuaLjXtPkACD-BkU-oM6PUotjdCEk>

### Requirements and Expectations

- Students are expected to **attend all virtual classes with cameras and mics on**. You are expected to attend on time and actively participate in class activities.
- Complete reading assignments and activities prior to class. Readings are listed in the course schedule and additional readings may be assigned as needed.
- Due dates for assignments will be discussed during the first class day. Late work will not be accepted after the tenth week of class.
- The **midterm** will be a paper-based project due the eighth week of class.
- The **final project** will be due the final week of class on the second-class day.
- Grading Rubric
  - Assignments: 35%
  - Participation: 15%
  - Midterm: 25%
  - Final: 25%
- **CANVAS:** All course content and assignments will be administered through Canvas. Please reach out to IT if you have any canvas issues or need help navigating the platform. [itsupport@uttyler.edu](mailto:itsupport@uttyler.edu) or go by RBN 3022 <https://uttyler.service-now.com/sp>
  - **You will need to go through all the content posted in Canvas. Modules will be locked and open based on completing prior work and dates.**
- It is strongly recommended students use Grammarly, the writing center, and other available resources to proof work before it is submitted.
- Class participation - includes but is not limited to posing and/or responding to questions that relate to the course material (readings, videos, presentations.)

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Questions about due dates , exam or quiz schedules should be directed to graduate teaching assistant and will not be counted as participation) I consider all of the following “participation” – as long as they are not related to information about schedules and due dates.

- Questions in class
- Questions after or before class
- Questions in my office , by e mail or telephone
- Answering questions in class
- Participating in class discussions
- Written or verbal responses to videos or speakers
- Suggestions (politely offered) for making class time more meaningful, valuable or interesting for students (and teacher)
- Showing up

Schedule

Week	Class via <a href="#">Teams</a>	Topics	Assignment Due
1	8/23	<a href="#">Academic Calendar</a>	
	8/25	<a href="#">Cliff Analogy</a>	
2	8/30	<b>Book:</b> Intro to Epidemiology	<b>Exercises 1.1-11</b> <b>Unit Assessment</b> <b>Epiville Discussion 1</b>
	9/1* <small>Census Day</small>		
3	9/6	<b>Book:</b> Intro to Epidemiology	
	9/8	<b>Epiville:</b> Casual Inference	
4	9/13	<b>Book:</b> Summarizing Data	
	9/15		
5	9/20	<b>Book:</b> Summarizing Data	
	9/22	<b>Epiville:</b> SARS Outbreak Study 1	
6	9/27	<b>Book:</b> Measure of Risk	<b>Exercises 3.1 - 8</b> <b>Unit Assessment</b> <b>Epiville Discussion 3 &amp; 4</b>
	9/29	<b>Epiville:</b> SARS Outbreak Study 2	

7	10/4	<b>Book:</b> Measure of Risk	
	10/6	<b>Epiville:</b> Randomized Trials	
8	10/11	Mid Term	
	10/13		
9	10/18	<b>Book:</b> Displaying Public Health Data	<b>Exercises 4.1 - 7</b> <b>Unit Assessment</b> <b>Epiville Discussion 5 &amp; 6</b>
	10/20	<b>Epiville:</b> Cohort Study	
10	10/25	<b>Book:</b> Displaying Public Health Data	
	10/27	<b>Epiville:</b> Case-Control Study	
11	11/1	<b>Book:</b> Public Health Surveillance	<b>Exercises 5.1 - 6</b> <b>Unit Assessment</b> <b>Epiville Discussion 7 &amp; 8</b>
	11/3 *Last day to withdraw	<b>Epiville:</b> Ecological Study	
12	11/8	<b>Book:</b> Public Health Surveillance	
	11/10	<b>Epiville:</b> Bias	
13	11/15	<b>Book:</b> Investigating Outbreaks	
	11/17	<b>Epiville:</b> Confounding	

14 No Class - Thanksgivi ng	11/22		
	11/24		
15	11/29	<b>Book:</b> Investigating Outbreaks  <b>Epiville:</b> Screening	<b>Exercises 6.1 - 9</b> <b>Unit Assessment</b> <b>Epiville Discussion 9 &amp; 10</b>
	12/1		
16 Finals Week Grades Due 12/12	<b>Final due 12/8</b>		
	No Class Meeting		

## **Required Disclosures**