



蘇州大學
Soochow University

HLT 540 Applied Epidemiology

Winter 2024

Course Credits: 4

Contact Hours: 56 hours

Instructor: TBA

Email: TBA

COURSE OBJECTIVES

Building upon foundational epidemiological principles, students will gain insights into the real-world application of epidemiological methods and practices. The course will cover various study designs, data analysis techniques, and the interpretation of epidemiological findings in practical settings to investigate public health issues. Students will engage in diverse learning methods, including lectures, case studies, readings, and hands-on exercises, gaining firsthand experience in identifying, controlling, and preventing diseases within communities.

Upon completion of this course, students will be able to:

1. Develop proficiency in the application of various study designs.
2. Analyze and interpret epidemiological data to draw evidence-based conclusions.
3. Acquire skills in outbreak investigation and control.
4. Explore the ethical considerations in applied epidemiology.
5. Apply epidemiological methods to public health issues.
6. Enhance communication skills to effectively convey epidemiological findings

PREREQUISITES

HLT 510 Introduction to Epidemiology

GRADING

Grades will be determined by accumulating points, with 100 points being the maximum, as follows:



ITEM	POINTS
Assignments	40 Points
Midterm Exam	15 Points
Group Project	20 Points
Final Exam	25 Points
Total	100 Points

Late submissions will be graded at the end of the course. Grades will be assigned according to the following rule:

$$A \geq 90 > B \geq 80 > C \geq 70 > D \geq 60 > F.$$

We reserve the right to make adjustments to the overall grading policy.

COURSE MATERIALS

Required Texts:

R. Bonita, R. Beaglehole, Tord Kjellström, *Basic Epidemiology*, 2nd Edition, World Health Organization, 2006.

Recommended (Optional) Texts or Other Materials:

Additional readings will be assigned for lectures and categorized by topics.

COURSE TOPICS

MODULE	TASKS
Module 1	<p>Topics: Topic 1: Introduction to Epidemiology Topic 2: Epidemiology and Public Health Topic 3: Measuring Health and Disease Topic 4: Study Designs in Epidemiology</p> <p>Assessments: Assignment#1: Literature Review</p>
Module 2	<p>Topics: Topic 5: Cross-sectional Studies Topic 6: Case-control Studies Topic 7: Cohort Studies Topic 8: Experimental Studies</p> <p>Assessments: Assignment#2: Case Study Analysis</p>



Module 3	Topics: Topic 9: Data Analysis and Presentation Topic 10: Causation in Epidemiology Topic 11: Epidemiology and Prevention: Chronic Noncommunicable Diseases Topic 12: Communicable Diseases: Epidemiology Surveillance and Response Assessments: Assignment#3: Case Study Analysis Midterm Exam
Module 4	Topics: Topic 13: Clinical Epidemiology Topic 14: Environmental and Occupational Epidemiology Topic 15: Epidemiology, Health Policy and Planning Topic 16: Steps in Practical Epidemiology Assessments: Assignment#4: Case Study Analysis Group Project
Module 5	Topics: Topic 17: Ethical Considerations in Epidemiology Topic 18: Application of Epidemiology to Public Health Issues Topic 19: Application of Epidemiology in Everyday Life Topic 20: Group Project Presentations Assessments: Group Project Presentations Final Exam

ATTENDANCE

1) Class attendance is required. Missing classes without permission will lead to decrease in overall grade.

Missing less than two classes: no penalty.

Missing more than two classes: 7% will be taken off from the overall grade.

If the instructor reports a student's frequent missing of class to the Soochow University Academic Administration Office, the student might get a written warning and might be prohibited from attending final exam.

2) Participants in this course are expected to arrive in class promptly and adequately prepared. The primary objective of this course is to critically engage with the readings and the subject matter. Therefore, course participants are expected to have completed the reading prior to class and prepare thoughtful reflections/commentaries to share with fellow colleagues.



LEARNING REQUIREMENTS

- 1) Late assignments are not acceptable and are subjected to grade deductions.
- 2) Assignments submitted in the wrong format will be counted as not submitted.
- 3) Failure to submit or fulfill any required course component results in failure of the class.
- 4) Make-up for midterm and final exams only with valid excuses, as defined by the University.
- 5) In order to earn a Certificate of Completion, participants must thoughtfully complete all assignments by stated deadlines and earn an average quiz score of 50% or greater.

TECHNOLOGY POLICY

The use of electronic devices in class is distracting, both for the user and for the rest of the class. Only non-programmable calculators can be used in the tests and exam. Any attempts to use cell phones and other electronic communication devices will be seemed as cheating. Laptops are discouraged, unless you use them for activities DIRECTLY related to the course (e.g., note taking, reading course documents).

ACADEMIC INTEGRITY POLICY

Soochow University highly values the academic integrity and aims to promote the academic fairness, honesty and responsibility. Any academic dishonesty behaviors and any attempts to cheats and plagiarism will be reported to the university administration office. A written warning and the relevant penalties will be imposed. The record might be shown on the official university transcript.

DISABILITY ACCOMMODATION

Soochow University is committed to maintaining a barrier-free environment so that students with disabilities can fully access programs, courses, services, and activities at Soochow University. Students with disabilities who require accommodations for access to and/or participation in this course are welcome.

Note:



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Please contact the University Administrative Office immediately if you have a learning disability, a medical issue, or any other type of problem that prevents professors from seeing you have learned the course material.