

Course at a Glance



Course Title: Epidemiology

Course Number: PHC 6000

Dept: EPB

Credits: 3

Traditional Section: 310

Reference Number: 16822

Certificate Section: 510

Reference Number: 20426

GDM Section: 851

Reference Number: 27376

PHP Section: 351

Reference Number: 20425

Instructors Name: Dr. Heather Stockwell, Dr. Amy Borenstein, Dr. Aurora Sanchez-Anguiano

Instructors Email: stockwel@health.usf.edu, aborenst@health.usf.edu, asanchez@health.usf.edu

Course Prerequisites:

Although not required, students are encouraged to take Biostatistics I prior to or concurrently with this course.

Course Description:

This course is an introduction to epidemiologic concepts and methods used to evaluate the distribution and determinants of health and disease in populations.

Format of content presentation, activities and/or instructional methods:

This course is divided into 3 sections. Each section is taught by a different instructor and consists of 4 units and an exam for a total of 12 units, 6 quizzes (2 per section) and 3 exams. The first two exams consist of 40 questions and the final exam is cumulative and includes 60 questions.

Textbook and Ordering materials:

Required Textbook:

Oleckno, William A. Essential Epidemiology, Principals and Applications. Prospect Heights, Illinois: Waveland Press, Inc., 2002.

Optional Exercise book:

Hebel J, McCarter R. Study Guide to Epidemiology and Biostatistics, 6th Edition. Sudbury, Massachusetts: Jones and Bartlett Publishers, 2006.

How to Order:

Purchase your textbook online on the [HSC Bookstore website](http://usfhsc.bncollege.com) (<http://usfhsc.bncollege.com>)

Course learning objectives:

1. Describe the history of epidemiology and its contribution to public health;
2. Develop a population-based perspective of disease and other health-related events;
3. Perceive ethical issues in epidemiologic research;
4. Perceive the need for data-based research on diverse cultural groups and understand the differences between genetic and biologically-based versus sociologic and socioeconomically-based measures
5. Learn the methodology used to study the distribution and determinants of health-related events in populations;
6. Discern the differences between experimental and observational study designs;
7. Calculate and interpret measures of health status and measures of association;
8. Distinguish between association and causation. Describe the criteria used to evaluate causal associations;
9. Apply the basic methodology related to the design and conduct of observational and experimental epidemiologic studies;
10. Recognize the roles of chance, bias and confounding in the interpretation of epidemiologic results;
11. Explain the difference between confounding and effect-modification;
12. Systematically begin to critically evaluate the epidemiologic literature;
13. Discern the basics of the epidemiology of infectious diseases. Outline the methodology to investigate an epidemic outbreak and techniques for disease surveillance;
14. Acquire the basic skills of applied epidemiologic techniques in screening for disease control.

Types of assessments and activities in the course:

- 3 exams:
 - Covering Units 1 through 4 (40 questions);
 - Covering Units 5 through 8 (40 questions);
 - Comprehensive Final Exam. (60 questions).
- 6 quizzes
 - 2 quizzes per section. (total of 6 quizzes)
- Review units and complete exercises;
- Read assigned materials from the textbook;
- Participate in virtual help sessions (optional but recommended);
- Obtain from the library and read the articles referenced in the syllabus;
- Use guidelines given to complete a critical review of an epidemiologic peer-reviewed manuscript;
- Complete an outbreak investigation on the CDC web site.

Student Expectations:

- Students who choose to work in the virtual 'discussion boards' are expected to use netiquette.
- DSL/Cable internet connection is **STRONGLY** encouraged to participate in this class.

Required Dates to be Online:

The exams will be offered on the following dates:

Exam I. **Thursday**, February 9

Exam II. **Thursday**, March 22

Final Exam. **Thursday**, May 3

If you anticipate difficulty taking any exam at the assigned time, please e-mail the instructor as soon as possible to arrange for an alternative time to take the exams.

For more information about the course, contact:

Name: Dr. Heather Stockwell, Dr. Amy Borenstein, Dr. Aurora Sanchez-Anguiano

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Note: For problems accessing the course materials and other computer technical problems, click the **Tech Assistance** button in your course website and fill out a "Technical Problem Report Form". Tech Assistance button links to the Technical Assistance page of the Office of Educational Technology & Assessment website at: <http://health.usf.edu/publichealth/eta/techsupport.html>. Students can also receive assistance via telephone at 813-974-6666, Mon-Fri 8:30am-5pm, or via email at eta@health.usf.edu.

Technology Requirements (e.g. software or hardware):

Visit this website for software requirements and downloads:

http://health.usf.edu/publichealth/eta/students_tech_requirements.htm

Course Specific Technology Requirements:

View the [Elluminate Live! Technology Requirements](#)

(http://eta.health.usf.edu/technology/illuminate/Elluminate_Live10_sessions.pdf).

To participate in the online group or individual help sessions you must meet ALL the computer requirements for Elluminate Live! sessions.

Please Note: The information on this document is subject to change. The course instructor has the right to change any information posted in this document. Students should check the official course syllabus released during the first week of classes for any updates to this document.