

HE220 Introduction to Epidemiology and Health Data Analysis

Linn-Benton Community College

Fall2021

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Office Hours: Monday and Wednesday 8:30 am to 10:00 am <https://linnbenton.zoom.us/j/5561495447>
or one tap mobile +13462487799,,5561495447#

In addition, office hours may be arranged by appointment.

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NOVEL CORONAVIRUS/COVID-19 Use of Face Coverings

[Wear a mask or face covering indoors at all times](#). Your mask or face covering must be properly worn (fully covering nose and mouth and tight-fitting). Mesh masks, face shields, or face covering that incorporates a valve designed to facilitate easy exhalation are not acceptable. If you have a medical condition or a disability that prevents you from wearing a mask or cloth face covering, you must obtain an accommodation from [CFAR \(Center for Accessibility Resources\)](#) to be exempt from this requirement. State guidelines do not limit class size. Physical distancing accommodations can be made upon request and cleaning supplies are also available for personal use.

Course Description:

This is an introductory course to health data analysis and biostatistics that covers both descriptive and inferential statistics designed to provide preparatory background for taking a subsequent course in epidemiology and biostatistics in a four-year degree program. This course will introduce probability and sampling distributions as the foundation for statistical inference; hypothesis testing, confidence intervals, chi-square distribution, and linear regression and correlation.

Course Outcomes:

Upon successfully completing this course with a C or better, students will have completed the following measurable outcomes:

1. Examine the importance of biostatistics in public health and medical research.
2. Differentiate between observational and experimental studies and recognize the strengths and weaknesses of each type of study.
3. Recognize the basic limitations on statistical procedures and know when and how to use them appropriately.
4. Interpret statistical results, tables, and figures from public health and medical literature.
5. Distinguish and defend the use of appropriate statistical methods in current published public health research.

Course Materials:

You will need the following materials to complete this class:

- OER for course
- A calculator with square root and exponential notations for this class.
- Access to Excel

- Access to a scanner, scanner app, or ability to load photos in a word document.
- Access to Zoom when unable to attend in person

Course Comments:

1. I do accept late assignments – it is 10% off for each day late. After seven days, you will get a zero grade, but I will still correct it so you have a study tool.
2. Attendance and participation are worth points in this class.
3. **I do not accept any assignments in the form of an email attachment.** You must submit all electronic work via homework submission slots on Moodle. Read all instructions on saving and sending files.
4. Students are expected to be honest and ethical in their academic work. Academic dishonesty is defined as an intentional act of deception in one of the following areas:
 - Cheating – use or attempted use of unauthorized materials, information or study aids
 - Fabrication – falsification or invention of any information
 - Assisting – helping another commit an act of academic dishonesty
 - Tampering – altering or interfering with evaluation instruments and documents
 - Plagiarism – representing the words or ideas of another person as one’s own

NOTE: Homework is unique each term. The use of Chegg, Course Hero, or other online resource to complete your work is considered cheating and will be subject to action by college. LBCC is in communication with Chegg and we are alerted when a question we have written for homework or a test has been submitted by a student for an answer.

4. You should contact your instructor during the first week of class if
 - You have a documented disability and need accommodations,
 - Your instructor needs to know medical information about you, or
 - You need special arrangements in the event of an emergency.
5. Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency should speak with their instructor during the first week of class. If you believe you may need accommodations but are not yet registered with the Center for Accessibility Resources (CFAR), please visit the [CFAR Website](#) for steps on how to apply for services or call 541-917-4789.
6. LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. (for further information <http://po.linnbenton.edu/BPsandARs/>) Board Policy P1015
7. **Basic Needs:** Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Single Stop Office for support (SinglestopatLBCC@linnbenton.edu , 541-917- 4877, or visit us on the web www.linnbenton.edu

under student services for current students). Our office can help students get connected to resources to help. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to provide any resources that they may possess.

Please Note:

- Class participation is encouraged. ASK QUESTIONS – it is very important for your learning. There are no dumb questions! You will see a question form for each week.
- Statistics is best learned through practice with problems.
- Tutors are available! You can sign up for tutoring online or call (541) 917-4684. Make sure you specify it is for HE220.