



# Introduction to Statistics – MTH 243 – Fall 2021 Syllabus

## General Information

### Instructor Information and Availability

*Instructor name:* Kristina Holton  
*E-mail address:* [holtonk@linnbenton.edu](mailto:holtonk@linnbenton.edu)

Send me an email when you have questions or concerns - don't wait! Barring unforeseen circumstances, I will respond within 48 business hours (or sooner).

*Office hours:* TBD (You are always welcome to make an appointment!)

### Course Information

*Course name:* MTH 243 Introduction to Statistics  
*CRN:* 26200  
*Scheduled time/days:* Tuesdays & Thursdays, 11:00am - 12:50pm  
*Number of credits:* 4 credits

#### Prerequisites:

MTH 095 Intermediate Algebra or MTH 105 Math in Society with a grade of C or better.

### Course Materials

Required:

- Introductory Statistics, OpenStax. Text is free and open source, or you can purchase a hard-bound copy if you wish (<https://openstax.org/details/books/introductory-statistics>)
- Internet Access
- Enroll in MyOpenMath (MOM), instructions below
- Microsoft Office 365 (Free, go to <https://www.linnbenton.edu/student-services/library-tutoring-testing/library/help-desk.php> )

## Instructions on How to Register/Enroll in MyOpenMath (MOM)

- Go to [www.myopenmath.com](http://www.myopenmath.com)
- Click on “Register as a New Student”
- Use your Student ID (X number) for your User Name!
- Choose and confirm a password, one you will not forget
- Enter your first and last names, and your LBCC or OSU e-mail address
- Enter the Course ID: **126898**
- Enter the Enrollment Key: **MTH243Holton**

## Course Description

Emphasizes interpretation of statistical results. Focuses on sampling procedures, experimental design, descriptive statistics, and inferential statistical techniques to analyze survey and experimental data from a wide range of fields in science and social science. Includes basic concepts in graphical interpretation of one and two variable data, probability, discrete and continuous probability distributions, sampling distributions, confidence intervals for means and proportions, and hypothesis testing.

## Student Learning Outcomes

- Collect, organize, analyze, and interpret data
- Interpret and calculate basic probabilities
- Create appropriate designs of observational studies and experiments to address issues in a variety of fields including healthcare, biology, agriculture, psychology, and physics
- Apply inferential statistics methods to address issues in a variety of fields

## Class Policies

### Behavior and Expectations

I do expect you to come to class, prepared to learn. Participation is the best way to learn this material and be successful, so please engage in the class.

You are held accountable to the [Student Code of Conduct](#), which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct.

## Guidelines for Communication

The best way for me to assist you is for you to reach out. Email is usually the most convenient way to reach me. I can't know that you need help if you don't say something, so speak up! Please communicate about any issues, before the deadline.

If you have any concerns regarding this class, you are encouraged to make an appointment to meet with me to discuss your situation. The sooner we can address them, the more likely we are to find a reasonable solution. If you have met with me and feel the need to escalate your concerns, you should then contact the Dean of ASSH, Meg Roland: rolandm@linnbenton.edu

## Testing

All exams will be group exams and you will have 72 hours to complete it. There are no extensions and I will not take any late exams. You may use lecture notes, previous assignments, and talk with your groupmates. You are restricted from asking anyone outside your group and from googling solutions and/or posting the questions online.

Disclaimer: If exam questions are found online, or anyone seeks assistance outside the class, we will revert to proctored testing and taking individual timed exams.

## Grading

Assessment Percentage Breakdown: (Grade totals can be found in MOM):

30% Weekly Online Homework

30% Group Write-Ups (lowest Write-Up dropped)

30% Exams 1, 2, and 3 (10% each)

10% Weekly Quizzes (individual) (lowest 2 quiz scores dropped)

Final Weighted Average of Grade Calculation:

Letter Grade	Percentage	Performance
A	90-100%	Excellent Work
B	80-89%	Good Work
C	70-79%	Average Work
D	60-69%	Poor Work
F	0-59%	Failing Work

## Late Assignment Policy

You may use up to 4 late passes at your discretion for any of the Weekly Online Homework in MOM. The late pass will extend the deadline for 48 hours. Late passes can only be used for Online Homework, no late work or extensions will be accepted for any of the other assessments in the grading percentage breakdown. If you have an accommodation, the weekly quizzes may be extended.

## Groups

You will be working in groups for this entire class, so get to know your groupmates!

## Campus Resources

### Math Support Services

Remote and In-Person Math Support services for all levels of math are available, 6 days a week, through a single Zoom link: <https://linnbenton.zoom.us/j/94627678411>.

Open **remotely** during ALL service hours.

Monday through Friday, 9am - 8pm

Saturday, 11am - 4pm and Sunday, CLOSED.

Math Support will have **in-person support** during the following hours

Monday through Friday, 9am - 12pm & 2pm - 5pm

Saturday, 11am - 4pm

Email: [mathdesk@linnbenton.edu](mailto:mathdesk@linnbenton.edu) for questions

### Learning Center Discord Server

The Learning Center has a Discord server is a space where students can meet and collaborate on their studies. Students are welcome to join at

<https://discord.gg/geMqSqV>.

## Tips for Success in This Class

Three amazing tips your instructor can give you to be successful in this course:

- Attend Class Regularly
- Do not wait until the last minute to do assignments
- Do stay on top of the assignments

## **College Policies**

### **LBCC Email and Course Communications**

You are responsible for all communications sent via Moodle and to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. You may access your LBCC student email account through Student Email and your Moodle account through Moodle.

### **LBCC Email and Course Communications**

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.

### **Disability and Access Statement**

LBCC is committed to inclusiveness and equal access to higher education. If you have approved accommodations through the Center for Accessibility Resources (CFAR) and would like to use your accommodations in the class, please talk to your instructor as soon as possible to discuss your needs. If you believe you may need accommodations but are not yet registered with CFAR, please visit the [CFAR Website](#) for steps on how to apply for services or call [\(541\) 917-4789](tel:5419174789).

### **Statement of Inclusion**

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce.

[Equal Opportunity and Non-Discrimination Policy](#)

## **Basic Needs Statement**

Any student who has difficulty affording food or finding a safe and stable place to live, or who needs assistance with resources for transportation, childcare, etc., is urged to contact the [Roadrunner Resource Center](#) for support and referral to community resources. Also, please talk with your instructor if you are comfortable doing so. This can help them direct you to the appropriate office and resource.

## **Title IX Reporting Policy**

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](#) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

## **Public Safety/Emergency Resources**

In an emergency, call 911. Also, call [LBCC Public Safety and Loss Prevention Office](#) at 541-926-6855 and 541-917-4440.

From any LBCC phone, you may alternatively dial extension 411 or 4440. LBCC has a [public safety app](#) available for free. We encourage people to download it to their cell phones. Public Safety also is the home for LBCC's Lost & Found. They provide escorts for safety when needed. Visit them to learn more.

## **Changes to the Syllabus**

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class, through a Moodle Announcement, through LBCC e-mail, and/or by MyOpenMath Announcement.

## **Tentative Class Schedule**

Print the calendar or class schedule on its own page, preferably the last, so that students can easily find this resource.

- Week 1: Sampling, Data and Descriptive Statistics
- Week 2: Descriptive Statistics
- Week 3: Probability Topics
- Week 4: Discrete and Continuous Random Variables and Exam 1
- Week 5: The Normal Distribution and The Central Limit Theorem
- Week 6: Confidence Intervals and Hypothesis Testing 1 Sample
- Week 7: Hypothesis Testing 1 Sample and 2 Sample
- Week 8: The Chi-Square Distribution and Exam 2
- Week 9: Linear Regression, Correlation and ANOVA
- Week 10: ANOVA
- Final's Week: Final due by Wed 11:59PM in MOM

Review the "MTh 243 Calendar" to see when assignments are due.