Intro to Statistics – MTH 243 – Winter 2021 Syllabus

General Information

Instructor Information and Availability

Instructor name: Michael Lopez
E-mail address: lopezm@linnbenton.edu
Office hours (via zoom): TBD (You are always welcome to make an appointment!)

Course Information

Course name: MTH 243 Introduction to Statistics
Section: 02
CRN: 34795
Scheduled time/days: **No scheduled class times, but we will have 10-minute Weekly Check-Ins.**
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.
- 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)
- **Audio and Video Capabilities for Weekly Check-Ins via Zoom**

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

- Go to 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 you LBCC or OSU E-Mail address
- Enter the Course ID: **97180**
- Enter the Enrollment Key: **W2021Lopez**

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 all to work heavily in groups. I do expect you to do weekly check-ins with me, via zoom. I do expect you all to take advantage of my time by attending office hours, setting up appointments with me, email, messages in MOM, etc.

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

Please be redundant, I will be. This means if you have a question, send it to me through multiple communication avenues, MOM, email, and Moodle.

Do communicate any issues, before any deadlines.

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 assistant 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% Group Exams 1, 2, and 3 (10% each)
5% Weekly Check-Ins
5% 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.

Campus Resources

Math Support Services

Open Hours:
Monday – Friday: 9am – 7pm
Saturday: 11am – 4pm
Sunday: 11am – 3pm
https://linnbenton.zoom.us/j/94627678411
Email: mathdesk@linnbenton.edu for questions

Learning Center Discord Server

Join the MTH 243 Discord to interact with other students taking this course, great for working on online homework and Write-Ups!
https://discord.gg/geMqSqV

Groups

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

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.

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.

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 MOM Announcement, or through LBCC e-mail.

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.