

Instructor and class information:

Instructor: Mike Hruschka

Office: WOH 103

Office Hours: MTWR 10 – 11 AM

Email: hruschm@linnbenton.edu

CRN: 30144

Class time: MW 11AM – 1PM

Room: WOH 120

Course description and objectives:

This is a survey course in mathematics for students in the liberal arts and other non-science majors. Topics are selected from areas such as management science, statistics, social choice, the geometry of size and shape, and computers and their applications. Emphasizes the application of mathematics to the problems of contemporary society and the critical role these applications play in economic, political and personal life. Upon successful completion of this course, students will be able to: Formulate questions that can be addressed with data, then organize, display and analyze relevant data to address these questions and communicate results. Apply the basic principles of study design to develop and analyze the validity of simple experiments. Demonstrate numeric and algebraic reasoning skills to support statistical analysis and financial literacy. Construct, use, and interpret mathematical models, specifically linear, quadratic, logarithmic, and exponential functions, to represent relationships in quantitative data

Prerequisite:

MTH 95 or 98.

Required Course Materials:

- A device to access the Internet, this can be a tablet, laptop or phone. There are laptops available to check out in the Library for class. You will need internet access both in and outside of class.
- A 3-ring binder, about 1.5 inches thick; all of your work will be organized in this binder.
- A calculator; you may use a smartphone or other device except during tests.

Textbook:

Math in Society by David Lippman; free online here:

<http://www.opentextbookstore.com/mathinsociety/current2.php?chapter=MathinSociety.pdf>. There is also a link to the textbook in MyOpenMath.

Enrolling in MyOpenMath:

- 0 If you have used MyOpenMath before, log in and skip to step 6
- 1 Go to www.myopenmath.com
- 2 Click on "Register as a New Student"
- 3 Enter a user name, I recommend using your student ID number
- 4 Choose and confirm a password, one you will not forget
- 5 Enter your first and last names, and your e-mail address
- 6 Enter the Course ID: 62563
- 7 Enter the Enrollment Key: W2020 MW

Grading Policy:

Your grades may be viewed on MyOpenMath.com and will be based on the following:

- Online Homework and in-class activities: 15%
- Projects: 20%, submitted four times during the term
- Tests: 40%: 2 midterms worth 20% each.
- Final Exam: 25%

Grading Scale:

A: 90 -100% B: 80 – 89% C: 70 - 79% D: 60 - 69% F: 0 - 59%

Some grading details:

Online Homework and in-class activities:

Every week, you will have homework problems due through our online platform My Open Math. This gives you a chance to immediately reflect on your learning and understanding. Much of the learning you do in this class will be from in-class activities and worksheets, some of which will be collected for a grade. The lowest 2 homework/in-class activity grades will be dropped.

Projects:

Each assignment will have a description and a grading rubric. This helps you identify your goal for the grade you want to earn.

Tests:

Tests will be during regular class time. Some tests may have a take home portion as well as an in-class portion.

Resources:

Class time:

This class is meant to be collaborative. Work with your fellow students and ask me questions.

MyOpenMath:

This is where you will do most of your homework. MOM contains links to individual textbook chapters, **video lectures**, and has a **discussion forum** where you can ask questions of fellow students or the instructor. **Keys** and **class notes** will be posted on MyOpenMath.

Learning Center /Math Café:

The Learning Center, WH226, is an excellent place to study and to get help with your homework. (Please remember to log on and log off the computer with each visit to the Learning Center.) The other LBCC campuses have similar facilities with Math Help available. The Albany Campus has The Math Café in WH-227, which is connected to the Learning Center.

- There is free wireless available in the Math Café and Learning Center (with lots of places to plug in so your battery won't be depleted.)
- The relaxed atmosphere and table arrangement in the Math Café and Learning Center provide great locations for study groups to meet and work.
- Instructional assistants are available in the Learning Center and Math Café to answer your math, and study skills questions. The Math Café specializes in Math 50, 75, 95, 98, **105**, and 111.
- The Learning Center also offers 3 hours per week of free individual and small group **tutoring**.

Office hours:

If you have questions, please come see me and ask. I will always be in my office during office hours, and am generally willing to help any other time you find me in my office and by appointment. I am also available for help in the Learning Center.

Textbook:

Math in Society by David Lippman; free online here:

<http://www.opentextbookstore.com/mathinsociety/current2.php?chapter=MathinSociety.pdf>

Optional: Excursions in Modern Mathematics by Peter Tannenbaum.

Academic Honesty:

I assume that you are ethical and honest. However, if there is an incident of academic dishonesty (cheating), you will receive a score of zero for that test/assignment and the incident will be reported to the college administration for possible further disciplinary action. If there is a second offense, you will receive a grade of F for the course and the incident will be reported to the college administration with a recommendation for disciplinary action.

Special Circumstances:

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](https://www.linnbenton.edu/cfar) <https://www.linnbenton.edu/cfar> for steps on how to apply for services or call 541-917-4789.

LBCC Comprehensive Statement of Nondiscrimination:

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.

Statement of Inclusion:

The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. (related to Board Policy #1015)