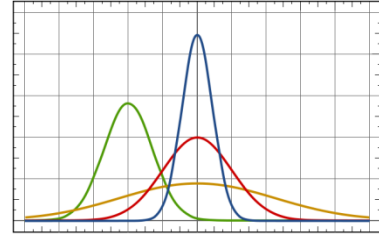


Statistics



For Scientists and Engineers – MATH 265
Monday, Tuesday, Wednesday, and Thursday 12:00 to 12:50 pm

Course:

In this class we will discuss as many topics as possible including probability, random variables, expectation, common distributions, confidence intervals, tolerance and prediction intervals, hypothesis testing, correlation, linear regression, normal probability plots, analysis of variance, and control charts. To take the class you must have completed MATH 252, Integral Calculus, with a grade of C or better.

Instructor: Jeff Crabill **CRN:** 33533
Office/Phone: Zoom Room 5419174627
Email: crabilj@linnbenton.edu

Class Zoom: See Moodle Link

Office Hours:

Since we are remote in a virtual class, the office hours can be anytime you need to meet. Let's make an appointment and we'll jump on zoom. I'm almost always available and happy to talk. Please make an app't using the link in Moodle or by sending me an email with suggested times to talk.

Required for this class...

- MyLab Stat (Pearson) Access
- Microsoft Excel spreadsheet (free download for students available)
- eBook – Walpole Statistics (available inside MyLab Stat)

Moodle Announcements:

Everything you need daily will be posted on Moodle and assignments will be submitted on Moodle in PDF documents. Please check Moodle regularly throughout the term.

Requirements and Grades:

Weekly MyLabStat	~100 pts
Short Daily MyLabStat	~50 pts
Misc In Class	~50 pts
5 Projects @ 20 pts each	100 pts
1 Midterm Exam** @ 100 pts each	100 pts
<u>1 Final Exam** @ 150 pts</u>	<u>150 pts</u>
Total	~550 pts

These point values are approximate and you should expect these to differ slightly. Letter grades, A through F, will be issued using standard 90%, 80%, 70%, 60% cutoffs.

No Ys will be issued for this course.

**** Midterm and Final will be in person.**

Location TBA and announced on Moodle.

Incompletes:

An incomplete may be issued for a student who is making satisfactory progress (grade of C or better) in the course, but who has failed to complete the final exam because of unusual circumstances. Any student seeking this option MUST talk to me before the end of finals week and sign a contract that I turn in with grades at the end of the term.

Reading the Textbook:

The concepts covered in this class will be completely new to most of you and it will feel different from most math classes you have taken. There is a lot of theory that goes with each topic. I can present the information in lecture, but you will need to read the sections at least twice to gain a good understanding of the ideas. You will be tested on the ideas as well as the mathematical algorithms used to complete statistical processes. Reading will be an important part of this class, so follow along in the textbook.

Anyone with Special Needs...?

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 the instructor during the first week of class. If you have not accessed services and think you may need them, please contact Disability Services, 917-4789.

Help:

The math help desk is not designed as a resource for this particular class. Math majors are typically not required to take this class. Ask questions during class. See me during office hours or email me. Form study groups and with other students from our class.

Homework:

Plan to complete short daily work in MyLab plus a longer weekly assignment in MyLab. The daily work is meant to keep you working with the day's material each day.

Lowest three daily will be dropped.
Lowest one weekly will be dropped.

Projects:

There will be five short projects offered this term. I will post the work for you on Moodle. Due dates are also listed on the calendar. Late projects are not accepted. Turn in whatever you have completed at the time it is due.

In Class Misc

These will vary in points and may be in-class problems or out of class assignments. These will require less work than a project but will help clarify a concept. Many of them will be very short in class exercises we do as a group.

Midterm Exam:

You will have one midterm exam taken in person during class time on Thursday of Week 6. The exam will take place in Albany at LBCC (room TBA). The exam will be open-note (your handwritten notes from class) and you will need a computer running Excel (computer in airplane mode).

Final Exam:

Your final exam is cumulative and will be given in-person during the final exam time scheduled by the college. Like the midterm, this will be open-notes with a computer running Excel.

Cheating:

Cheating and plagiarizing will not be tolerated. If you choose to cheat or copy another student's work, you will receive a zero grade and I will file an incident report. A second episode of cheating will guarantee you an F grade for the course and more severe disciplinary action from the school. If you are having so many problems that you feel the only way out is to cheat, then you need to come talk with me. I am here to help you succeed. There are always ways to work things out for students who are willing to try.

LBCC 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.

Class Zoom Expectations

In order to be most successful, students must engage actively in the course. Our course policy on zoom with include the following expectations:

- You attend class daily
- You turn your camera on (blur the background if needed) and use mute as needed.
- Speak up just as if we were in a classroom
- Students who need a day or two with a camera off must only chat with instructor ahead of time
- Students who consistently have camera off (instructor discretion) will be put in the waiting room unless we've discussed it ahead of time.

Course Caveat

Anything that is not specifically addressed in this course syllabus shall be decided upon at the sole discretion of the course instructor