



Algebra for Statistics (MAT-033-BC81) 2021 Fall Semester

Number of Credits: 4

Days Class Meets: Tuesday and Thursday

Meeting Time: 10:30 AM – 12:20 PM

Location/Venue: LeTarte Center, Room 13

Instructor: David Lauback

Contact Phone: You can text me using the Remind app. Text “@mat033f” to 81010 to join our class.

Contact Email: laubackdavidj@jccmi.edu (This is the best way to contact me outside of class.)

Online Office Hours: By appointment only

Course Description

As an alternative pathway to college-level mathematics, this course introduces fundamental algebraic concepts within an underlying framework of statistics and mathematical modeling based on real-world data. Major concepts and themes include: problem solving and experimental design; unit analysis and error in measurement; dimensional analysis and scientific notation; representing data and coordinate graphing; introduction to basic descriptive statistics and probability theorems; basic geometric principles (area, volume, perimeter); arithmetic operations on numbers, ratios, summations, and percents; solution of formulas; modeling relationships (linear regression); solving equations and inequalities; and function arithmetic and graphing. Appropriate technology includes a graphing calculator *or* online access to StatCrunch (<https://www.statcrunch.com/>).

Prerequisite(s)

*Course Placement based on GPA or exam.

- **Prerequisite:** None
- **Co-requisite:** Must be concurrently enrolled in Math 133

Course Objectives

The main objective of this course is to enable you to succeed in your co-requisite math course, MAT 133. Therefore, it is important that you actively engage in the learning process by asking questions and contributing to group work and whole-class discussions. This course will be most beneficial to you if you are an active participant in the classroom each day we meet.

Students successfully completing MAT 033 will be able to...

1. Create, interpret, and apply graphical displays of data (histograms, bar and pie charts, dot plots, and stem and leaf displays).

2. Compute, interpret, and apply descriptive measures (mean, mode, median, range, variance, and standard deviation).
3. Use algebraic processes to manipulate formulas, simplify basic algebraic expressions and solve linear equations and inequalities.
4. Demonstrate understanding of functions, independent and dependent variables, number theory, sets, and mathematical notation.
5. Demonstrate understanding of concepts of equations by finding and interpreting appropriate graphs, x - and y -intercepts, and specific function characteristics.
6. Generate and interpret regression models to fit data.
7. Make, interpret, and compute with measurements in scientific notation.
8. Use appropriate technology (i.e., graphing calculator or StatCrunch) to enhance understanding of objectives.
9. Demonstrate knowledge and awareness of statistics in scientific arguments and current events.

Textbook

- No Textbook Required

Extras

- There are no additional materials required for this course. All relevant materials are listed in the co-requisite MAT133 syllabus.

Grading Procedure

Category #1: Homework: There will be frequent assignments to be completed outside of class. These worksheets are provided in the back of your coursepack.

Category #2: MyStatLab (MSL) Assignments: These assignments must be done outside of class time on a computer with internet access at MyStatLab (reachable through <http://www.mystatlab.com>). Assignments will be given due dates, announced in class. Check MyStatLab and with your instructor for due dates.

Category #3: In-Class Participation and Journals

In-Class Activities: There will be frequent partner and group-based in-class activities. These may be turned in for credit or scored during class (either for participation or correctness). Students may be able to choose their own partner/group or may have a partner/group assigned by the instructor.

Journals: There will be journal assignments throughout the semester that will require quality responses that show introspective thought on the subject matter.

Category #4: Quizzes: There will be regular quizzes given either through JetNet or proctored during class time. These will be shorter and give more frequent opportunities to assess your understanding of the content prior to higher-stakes exams in Math 133.

Grading Scale

GPA	GRADE RANGE	GRADE CALCULATION
4.0	90 - 100%	
3.5	85 - 89%	Homework: 30%
3.0	80 - 84%	MyStatLab Assignments: 15%

GPA	GRADE RANGE	GRADE CALCULATION
2.5	75 - 79%	Participation: 15%
2.0	70 - 74%	Quizzes: 40%
1.5	65 - 69%	
1.0	60-64%	
0.5	55-59%	
0.0	0-54%	

Academic Honesty Policy

Academic Honesty is defined as ethical behavior that includes student production of their own work and not representing others' work as their own, by cheating or by helping others to do so.

Plagiarism

Plagiarism is defined as the failure to give credit for the use of material from outside sources.

Plagiarism includes but is not limited to:

- Submitting other's work as your own
- Using data, illustrations, pictures, quotations, or paraphrases from other sources without adequate documentation
- Reusing significant, identical, or nearly identical portions of one's own prior work without acknowledging that one is doing so or without citing this original work (self-plagiarism)

Cheating

Cheating is defined as obtaining answers/material from an outside source without authorization.

This includes but is not limited to:

- Plagiarizing in any form
- Using notes/books/electronic material without authorization
- Copying
- Submitting others' work as your own or submitting your work for others
- Altering graded work
- Falsifying data
- Exhibiting other behaviors generally considered unethical
- Allowing your work to be submitted by others

Please note: Students that do the following are in violation of JC's [Academic Honesty Policy](#) and [consequences](#) will follow.

Posting course materials to sites such as Chegg or CourseHero is considered academically dishonest. If the MAT033/133 materials are posted there, I will ask the Dean's office to [request the student's personal information](#) from the site.

Accessibility

Jackson College understands that cultivating a broadly diverse community is crucial to our educational mission and to our foundational commitment to leadership and service. Jackson College is fully committed to ensuring our courses are accessible to everyone including those with disabilities. We are currently working to increase accessibility and usability of our course materials to meet or exceed the requirements of Section 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1991, and Web Content Accessibility Guidelines (WCAG) 2.0. For more information about Jackson College's efforts to ensure accessibility please visit the [Jackson College accessibility web page](#).

If you have an accessibility need in any of our classes, please e-mail the Center for Student Success at JCCSS@jccmi.edu or visit the [Center for Student Success web page](#).

At the Center for Student Success (CSS), we are committed to providing all students with the opportunity to achieve academic success by providing a variety of support services free of charge to Jackson College students. This includes, but is not limited to, peer and faculty tutoring, mental health referral, temporary assistance with transportation, various workshops/seminars, and the TRIO program.

In addition, the CSS staff is committed to adapting the College's general services to meet the individual needs of otherwise qualified students with disabilities, for the purpose of providing equal access to all programs and facilities. Course Management

Ways that students can manage their enrollment in a course for special circumstances. Includes withdrawal, and audit and incomplete grading procedures.

Makeup Policy

If you must miss class for any reason, it is your responsibility to notify me as soon as possible. Generally, the sooner you reach out to me to let me know of any planned absences, the more time we have to prepare for your upcoming absence. Failure to notify me of an absence may result in a loss of credit for participation or assignments completed in class the day of your absence.

Help

Tutoring: The Center for Student Success offers both in-person and virtual LIVE tutoring. You can schedule a session by visiting: <https://www.jccmi.edu/center-for-student-success/tutoring-center/>

Classmates: Get a regular study group. Write down names and numbers of your peers and call on each other when needed!

Online Office Hours: If you need assistance, I am always happy to meet with you online. Please email me at laubackdavidj@jccmi.edu to set up an online meeting time. I cannot promise that I will always be available to meet right away, but I will do my best to find a time that works for both of us!

Academic Advising

It is important to contact a Center for Student Success professional prior to the start of the semester to receive accommodations in a timely manner. While we will make every effort to coordinate accommodations in a timely manner, failure to self-identify prior to the start of the semester may delay notification to instructors and timeliness of acquiring accommodations. Accommodations do not automatically carry over to the next semester. Please e-mail JCCSS@jccmi.edu or visit the [Accommodations for Students with Disabilities](#) web page.

Student Responsibilities

This course is designed to provide you with the assistance you need to succeed in Math 130. As your instructor, you will have my full, undivided attention during class time. I ask that you do the same for me and your classmates. You will benefit yourself and your fellow classmates each day by bringing the necessary materials to class, coming to class with a positive attitude, participating thoughtfully in group and whole-class discussions, and generally putting forth your best effort.

Attendance / Participation Policy

Regular class participation and keeping up on the reading and assignments is strongly correlated with survival in college. It is my recommendation that you plan to do your assignments and take your exams BEFORE the last day they are due. If problems occur, there is time to fix them before the deadline.

In compliance with Federal Title IV funding requirements, as well as college initiatives, I will be monitoring student participation on a regular basis and officially reporting student activity throughout the term to assure compliance with college policy and federal regulations. It is imperative that you log in to the course and actively participate within the first couple of days of the term to validate your enrollment in the course. After that, not actively participating in class may result in you being withdrawn from the course. Being withdrawn from a course can have an impact on financial aid, billing, athletic eligibility, and housing status. As a college student you are responsible for how your participation impacts your academic progress; accountability lies with you.

Caveat

Please note: The format and timing of this course may need to change due to unforeseen circumstances. In particular: school closings, instructor illness, weather, or other situations that may arise. If you are taking an in-person class, you will be required to complete a Reintegration Video Training course in JetNet prior to being admitted to campus. All COVID safety protocols in place are based on current guidelines and will be enforced while students are on campus.

Calendar

We will mirror and support the topics and calendar for Math 133.

Important Dates:

MONDAY 09/06/2021	LABOR DAY HOLIDAY-NO CLASSES
WEDNESDAY 11/24- SUNDAY 11/28/2021	THANKSGIVING HOLIDAY-NO CLASSES
SATURDAY 12/18/2021	END OF FALL SEMESTER