



MATH 110: General Education Math

Instituto College — Fall 2026

Instructor: Patrick Collins, Ph.D.

Mon & Wed 6:00–8:00 PM

2520 S. Western Ave, Chicago, IL 60608

Office Hours: Mon & Wed, 5:00–6:00 PM (room 008)

Course Website: <https://infinitejazzkeys-cmd.github.io/math110/>

Course Description

This course provides an introduction to mathematical reasoning skills essential for success in healthcare and the sciences. Emphasis is placed on careful reasoning, problem-solving, and the ability to interpret and communicate quantitative information.

Course Topics

- Counting
- Probability
- Statistics

Class Meetings

The class meets twice per week on Mondays and Wednesdays from 6:00 PM to 8:00 PM at 2520 S. Western Ave, Chicago, IL 60608 (room 008). On regular instructional days, there is a 10-minute break from 6:55 PM to 7:05 PM.

Exams and Grading

Component	Weight
Midterm Exam 1	16%
Midterm Exam 2	16%
Homework (7 assignments)	42%
Final Exam (cumulative)	26%
Total	100%

Midterm Exams

There are two 1-hour midterm exams, each worth 16% of your grade. The first will be administered on Wednesday, November 4 and will cover the Counting and Probability units. The second will be administered on Wednesday, December 2 and will cover the Statistics unit.

Final Exam

The final exam is 2 hours and cumulative, worth 26% of your grade. It will be administered on Wednesday, December 9.

Homework

In each instructional week, a worksheet will be distributed at the end of class on Wednesday and is due at the beginning of class the following Monday. The one exception is Homework 7: since there is no class on Wednesday, November 25, it will be distributed at the end of class on Monday, November 23, and is due at the beginning of class on Monday, November 30.

Resubmission Policy

Each homework assignment may be resubmitted once, subject to the conditions below. Resubmissions are due at the beginning of class one week after the graded assignment is returned, or at the next class meeting if there is no class that day. Correct resubmissions earn back full points.

To be eligible for resubmission, all of the following requirements must be met:

1. **Reasonable original attempt.** Only problems for which a reasonable attempt was made on the original submission are eligible. Blank/skipped problems may not be resubmitted. The instructor will determine what constitutes a “reasonable” first attempt.
2. **Separate sheet.** Resubmitted work must be written on a fresh sheet of paper. Writing over, erasing, or otherwise modifying the original submission is not permitted.
3. **Office hours discussion.** Before resubmitting, the student must meet with the instructor during office hours to discuss the original submission. The student must be able to explain their mistakes and demonstrate an understanding of how to correct them.
4. **Complete and correct solution.** The resubmitted solution must be complete from start to finish and 100% correct. Partial credit is not awarded on resubmissions.

Course Schedule

Week	Day	Content
1	Mon 10/5	Diagnostic Exam, introduction/syllabus, begin Counting unit
	Wed 10/7	Continue Counting unit
2	Mon 10/12	No class — holiday
	Wed 10/14	HW1 due, finish Counting unit
3	Mon 10/19	HW2 due, begin Probability unit
	Wed 10/21	Continue Probability unit
4	Mon 10/26	HW1 resubmissions due, HW3 due, continue Probability unit
	Wed 10/28	HW2 resubmissions due, finish Probability unit
5	Mon 11/2	HW4 due, Midterm Exam 1 review
	Wed 11/4	HW3 resubmissions due, Midterm Exam 1
6	Mon 11/9	Begin Statistics unit
	Wed 11/11	HW4 resubmissions due, continue Statistics unit
7	Mon 11/16	HW5 due, continue Statistics unit
	Wed 11/18	Continue Statistics unit

Week	Day	Content
8	Mon 11/23	HW6 due, finish Statistics unit
	Wed 11/25	No class — holiday
9	Mon 11/30	HW5 resubmissions due, HW7 due, Midterm Exam 2 review
	Wed 12/2	Midterm Exam 2
10	Mon 12/7	HW6 resubmissions due, Final Exam review
	Wed 12/9	HW7 resubmissions due, Final Exam

Course Policies

Attendance

Regular attendance is essential. Each class session covers a substantial amount of material. If you must miss a class, please notify the instructor in advance, and make sure to review the slides on your own time.

Late Work

Homework submitted after the Monday deadline will not be accepted without prior arrangement. If you anticipate a conflict, please contact the instructor as early as possible.

Academic Integrity

All submitted work must be your own. Collaboration on homework is encouraged for the purpose of discussion and checking understanding, but each student must write up and submit their own solutions independently. Use of AI on the homework is strictly prohibited. Any form of cheating on exams will result in a grade of zero for that exam and the student may be referred to the appropriate institutional authority.

Communication

The instructor will communicate with students via the course website at <https://infinitejazzkeys-cmd.github.io/math110/>. Lecture slides, homework assignments, solutions, exam materials, and announcements are all posted there. Students are expected to check the site regularly. For individual questions, including scheduling a resubmission discussion or notifying the instructor of an absence, email p.collins@idpl.org or come to office hours.