

## Course Information

<b>Instructor:</b>	<i>Name:</i>	Jake Wildstrom		
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	<i>Office:</i>	Natural Sciences Building 113		
	<i>Office hours:</i>	<i>Primary:</i> M15:30–16:30, T14:00–15:00 <i>Secondary:</i> W15:30-16:30, R13:00–14:00, and by appointment		
<b>TAs:</b>	<i>Name:</i>	Chad Money	Carlos Paniagua Mejia	Timothy Pervenecki
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	<i>Phone number:</i>	(502)852-6240 (x6240)	(502)852-7012 (x7012)	(502)852-6022 (x6022)
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	<i>Office hours:</i>	W13–14,R9–10	T12–13	W11–12

### Course Websites:

[http://blackboard.louisville.edu/webapps/nosession/course\\_redirect.jsp?course\\_id=MATH-107-01-4142](http://blackboard.louisville.edu/webapps/nosession/course_redirect.jsp?course_id=MATH-107-01-4142)

<http://aleph.math.louisville.edu/teaching/2014SP-107>

**Lecture:** MW 14:00–15:15 in Davidson 109.

**Recitation:** W12:00–12:50/13:00–13:50/13:00–13:50 in Natural Sciences 317/Natural Sciences 128/Lutz 321.

**Prerequisites:** Appropriate placement score or equivalent coursework in algebra.

**Textbook:** *Finite Mathematics* by Barney, Ziegler, and Byleen, twelfth edition.

**Learning Outcomes:** Students who complete this course will be expected to manipulate and solve systems of linear equations with and without matrix arithmetic; solve and interpret linear inequalities; perform set operations; calculate and interpret probabilities; and utilize Markov chains. All of these skills will be tested on real-world applications and exercised with regard specifically to critical thinking objectives.

**General Education Content:** MATH 107 is a general education course. This course satisfies the university general education requirement in the mathematics content area. Students who satisfy this requirement will demonstrate that they are able to do all of the following: represent mathematical information symbolically, visually, and numerically; use arithmetic and geometric models to solve problems; interpret mathematical models such as formulas, graphs, and tables; estimate and check answers to mathematical problems, determining reasonableness and correctness of solutions.

**Responsibilities:** You are responsible for attending class and recitation sections on a regular basis and maintaining comprehension of the scheduled class objectives through full comprehension of the material presented, supplemented by readings from the text. You are expected to participate in class, raising questions as necessary. Grades are based on assessments and attendance on assessment days is mandatory. Assignments are provided for your benefit and you are expected to work on them as necessary.

**Special needs:** Any scheduled absence during a quiz or examination, or any other special needs, *must* be brought to my attention during the first week of class. Unscheduled absences will be handled on a case-by-case basis, with exceptions generally made only for documented emergencies.

**Calculators:** You may use a four-function or scientific calculator, but graphing calculators are not permitted. You are expected to show your work in setting up problems, however, and answers without sufficient work will not receive full credit.

**Honesty:** There are many resources available to help you succeed in this class, including consultation with the professor or TAs during office hours and cooperation with other students. It is important, however, that all papers handed in be the result of your individual comprehension of the course material. Duplication of others' work is both a disservice to your own education and a serious violation of the university's academic honesty policy.

**Grades:** Homework is ungraded and is provided for study purposes. Quizzes will be based on the homework problems, and will account for 20% of your grade. The three midterm examinations and the comprehensive final examination are each worth 20% of your grade. A 90% overall guarantees a grade of A–, 80% guarantees a B–, and 70% guarantees a C–.

**Changes:** The syllabus is subject to change. Changes will be announced in class and updated online.

## Course Schedule

This schedule is tentative and subject to change.

Week	Monday	Wednesday
1	January 6 Very cold day	January 8 Section 4.1
2	January 13 Section 4.2	January 15 Section 4.3 Quiz #1
3	January 20 MLK Holiday	January 22 Section 4.4 Quiz #2
4	January 27 Section 4.5	January 29 Section 4.6 Quiz #3
5	February 3 Section 4.7	February 5 Exam #1
6	February 10 Section 5.1	February 12 Section 5.2 Quiz #4
7	February 17 Section 5.3	February 19 Section 7.1 Quiz #5
8	February 24 Section 7.2	February 26 Section 7.3 Quiz #6
9	March 3 Section 7.4	March 5 Section 8.1 Quiz #7
10	March 10–16 Spring break	
11	March 17 Section 8.2	March 19 Exam #2
12	March 24 Section 8.3	March 26 Section 8.4 Quiz #8
13	March 31 Section 8.5	April 2 Section 11.5 Quiz #9
14	April 7 Section 9.1	April 9 Section 9.2 Quiz #10
15	April 14 Section 9.3	April 16 Exam #3
16	April 21 Review	April 23 Final exam, 14:30–17:00

## Problem Sets through Exam #1

- Complete by recitation on *January 15* in preparation for *Quiz #1*:
  - *Section 4.1*: 1, 3, 7, 11, 15, 17–25 odd, 27, 29, 31, 33, 51, 65–71 odd.
  - *Section 4.2*: 1–19 odd, 27, 39–63 odd.
- Complete by recitation on *January 22* in preparation for *Quiz #2*:
  - *Section 4.3*: 1–7 odd, 11, 13, 15, 19, 25, 27, 29, 31, 33, 39–45 odd, 67, 75, 77.
- Complete by recitation on *January 29* in preparation for *Quiz #3*:
  - *Section 4.4*: 1–13 odd, 31–47 odd, 65, 69, 71.
  - *Section 4.5*: 1–9 odd, 11, 15, 19, 21–29 odd, 31–45 odd.
- Complete by recitation on *February 5* in preparation for *Quiz #4*:
  - *Section 4.6*: 1–7 odd, 13–29 odd, 37, 39, 61.
  - *Section 4.7*: 1–11, 27–31 odd.