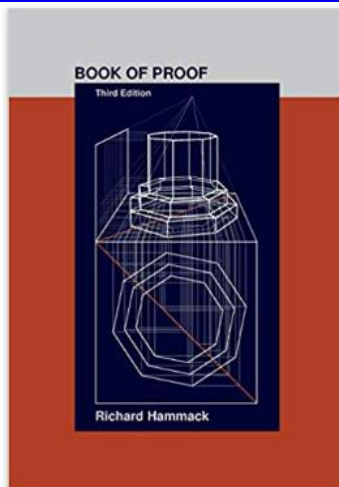


SURVIVAL SHEET: MATH 201 – SECTION 01W

SPRING SEMESTER 2020

Required Text: [Richard Hammack, **Book of Proof**, 3rd edition](#), Richard Hammack (2018)



Calculator: Your favorite calculator is permitted.

Instructor: A. Saleski

[612 BVM Hall \(contiguous with IES\) building # 37 on map](#) (6349 N. Kenmore Ave.,
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Course URL: <http://www.math.luc.edu/~ajs/courses/spring2020/201/index.pdf>

Office Hours: MWF 11:00 am – 12 noon; TTh 1:10 – 2 pm; or by appointment.

Ground Rules: The final grade is computed according to the following recipe:

tests	23 %
quizzes	9 %
homework	31 %
Piazza contributions	2%
group work in class	4 %
paper A	3 %
paper B	3 %
final exam	25 %
extra credit	3 %

Grading standards:

A	90 – 100
A-	87 – 89
B+	85 – 86
B	80 – 84
B-	75 – 79
C+	70 – 74
C	65 – 69
C-	60 – 64
D+	50 – 59
D	40 – 49
F	0 – 39



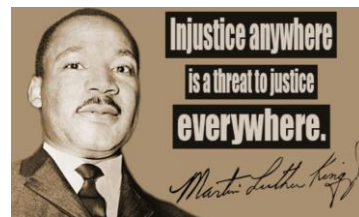
"Your grading scale needs to be calibrated."

The above scale is subject to revision.

IMPORTANT DATES:

- **Tests:** February 13th (Thurs); March 12th (Thurs); April 9th (Thurs)
- **Quizzes:** TBA
- **Holidays:**

❖ **Dr. Martin Luther King Day:**
Monday, January 20th



❖ **mid-semester break:** Monday – Friday, March 2nd – 6th



❖ **Spring Equinox,** Wednesday, March 19th



- ❖ **Easter:** Friday – Monday,
April 10th – 13th



- ❖ **Last day to withdraw without a grade of F:** 5 pm, Friday, March 23rd
- ❖ **Last day of class:** Thursday, April 23rd
- ❖ **Final Exam,** Tuesday, April 28th (9 – 11 am)
- ❖ **Loyola Calendar** (Spring 2020)

REMARKS:

1. Piazza will be our main form of communication outside of class. Upon receiving your welcome message from Piazza, you should join at once. All general questions/remarks/cool websites should be posted in Piazza. If you wish to make a personal statement, you should send a private message in Piazza (or, if you prefer, use my Gmail account). Your Piazza grade will depend upon the number of your posts.
2. Late homework will be accepted but at a penalty of 6 % per day late (this includes Saturday and Sunday) up to four days. After four days, the homework will not be accepted. *Homework must be stapled!* If homework doesn't meet a certain degree of acceptability (to be discussed in class), it may not be graded.
3. Each test will require a full class period. Make-up tests and quizzes will be given only for non-frivolous reasons. The student should make prior arrangements with the instructor, if at all possible.
4. The lowest of the quiz grades will be dropped. Each quiz should require about 10 minutes.
5. The *maximum penalty* for cheating is failure in the course; the minimum penalty is a 0 on the assignment/test/quiz/paper/final. A student who *improperly* aids another with a homework assignment, a test, a quiz, or the final exam is considered to be equally culpable. If you receive help on an assignment from anyone other than the instructor (this includes another student, the TA, a tutor, a family member, **website**, or a friend), *you should acknowledge this fact* in a comment at the beginning of your homework. Incidents of academic dishonesty will be reported to the appropriate Dean. Additional and more precise information about the University's policy on cheating is available at [academic integrity](#).

- I'm not the sort of person who does my mathematics writing on paper. I do that at the last stage of the game. I do my mathematics in my head. I sit down for a hard day's work, and I

write nothing all day. I just think. And I walk up and down because that helps keep me awake, it keeps the blood circulating, and I think and think. (*Sir Michael Atiyah*)

- Any good theorem should have several proofs, the more, the better. (*Sir Michael Atiyah*)
- I glory in the diversity of mathematics and the lack of a uniform straightjacket. (*Sir Michael Atiyah, Bull. AMS, 2006, p. 87*)
- Mere proof won't convince me. (*Caption to a cartoon by James Thurber*)
- If the people do not believe that mathematics is simple, it is only because they do not realize how complicated life is. (*John von Neumann*)
- ... for mathematical proofs, like diamonds, are hard and clear and will be touched with nothing but strict reasoning. (*John Locke, Second Reply to the Bishop of Worcester*)
- Mystery is an inescapable ingredient of mathematics. Mathematics is full of unanswered questions, which far outnumber known theorems and results. It's the nature of mathematics to pose more problems than it can solve. Indeed, mathematics itself may be built on small islands of truth comprising the pieces of mathematics that can be validated by relatively short proofs. All else is speculation. (*Ivars Peterson, from a Mathematical Mystery Cruise*)
- Proof is an idol before whom the pure mathematician tortures himself. (*Arthur Stanley Eddington, The Nature of the Physical World*)
- Do mathematics only if you are passionate about it, only if you would do it even if you had to find the time for it after a full day's work in another job. Like poetry and music, mathematics is not an occupation but a vocation. (*Béla Bollobás*)
- In mathematics, you don't understand things. You just get used to them. (*John von Neumann*)
- For in all sorts of reasoning every single argument should be managed as a mathematical demonstration (*John Locke: Of the Conduct of the Understanding*)
- One thing that really fascinates me about mathematics is its very real permanence. It is essentially immortal... *Once a theorem always a theorem* would summarize this viewpoint adequately. (*A. B. Mingarelli*)
- Because of mathematics' precise, formal character, mathematical arguments remain sound even when they are long and complex. In contrast, common sense arguments can generally be trusted only if they remain short; even moderately long, nonmathematical arguments rapidly become farfetched and dubious. (*Jacob T. Schwartz, 'Discrete thoughts'*)
- The problem with simple arguments is that they may be difficult to explain. (*Karin Erdmann*)