

# Math 108 – Introduction to Formal Mathematics

Fall 2019

**Instructor:** Dr. Corey Shanbrom

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**Office:** Brighton 125

**Office Hours:** Mon 12-1pm, Weds 3-4pm, Thurs 1-2pm, or by appointment.

**Website:** Course materials will be posted to our page at [canvas.csus.edu](https://canvas.csus.edu).

**Prerequisites:** Grade of C- or better in Math 31 and Math 35. You must prove to me that you have met this prerequisite by the end of the first week or you will be dropped.

**Text:** Book of Proof by Richard Hammack, 3rd edition. This book is required and available free online and on our Canvas page. Printed copies are \$28 in the bookstore. *Plan to read this book.*

**Grading:** Writing assignments 15%, Homework 25%, Midterms 30%, Final 30%. This is an approximation. Letter grades will be determined by a curve at the instructor's discretion. Detailed instructions for writing assignments will be provided later in the semester.

**Exams:** There will be two midterms, each worth about 15% of your final grade. No notes, books, electronic devices, or bathroom breaks will be permitted during any exam. Exam make-ups will be permitted only in the case of a documented emergency. Midterm dates will depend on our progress, but will be announced at least one week before the exam. The final will be comprehensive and held Friday, December 13, 8-10am.

**Homework:** Problems from the textbook will be assigned every lecture and will be *due in class every Friday*. Problems assigned on FMW are due the following Friday. I assign only even-numbered problems; solutions to *very* similar odd problems are in the back of the book. Many problems will be assigned – only some will be graded. Exams will include HW problems. Late HW will be accepted at a penalty. Take your homework seriously – *you will learn much more by struggling with homework problems and reading my feedback than you will by sitting in class.*

**Resources:** I am your primary source for help with the material, but other resources are available, including your classmates. You can and should form study groups. You should read each other's proofs. Also, other textbooks and websites (eg, Wikipedia, Youtube) can be helpful.

**Catalog Description:** Logic of mathematical proof, set theory, relations, functions. Examples and applications from set cardinality, algebra, and analysis.

**Remarks:** If you have a disability and require accommodations, you need to provide disability documentation to SSWD, Lassen Hall 1008, and discuss your needs with me as soon as possible.

If you are experiencing challenges in the area of food and/or stable housing, Sacramento State offers basic needs support for students. Visit [csus.edu/basicneeds](https://csus.edu/basicneeds).

Cheating of any type will result in disciplinary action and an automatic fail. This will show up on future background checks, grad school applications, etc. If you are unsure what constitutes cheating, please read Sac State's Academic Honesty Policy; see the link on Canvas.