

# INTRODUCTION TO ABSTRACT MATHEMATICS MAT108

## SYLLABUS FALL 2020

**Professor:** Roger Casals (casals – at – ucdavis.edu).

**Teaching Assistants:** Sari Ogami (sogami – at – ucdavis.edu) and Shanon Rubin (srubin – at – math.ucdavis.edu).

**Class schedule:** Lectures are **MWF 9:00-10:00am** conducted remotely by Prof. Casals. Recitations take place on **Thursdays** at 3:10pm (Section 1), at 4:10pm (Section 2), at 5:10pm (Section 3), and at 6:10pm (Section 4). The recitations are led remotely by our Teaching Assistants Sari Ogami and Shanon Rubin.

**Emails.** My email address is casals – at – ucdavis.edu. This is the fastest way to contact me. I am happy to answer questions via email, and it also tends to be helpful to set up appointments to meet in person, you are welcome to do either. As indicated above, the TAs e-mail addresses are sogami – at – ucdavis.edu, for Sari Ogami , and srubin – at – math.ucdavis.edu for Shanon Rubin.

**Course Website.** I will be maintaining the course website at the following URL “<https://www.math.ucdavis.edu/casals/Teaching/Fall20/MAT108/Fall20MAT108.html>”,

whose content includes this syllabus, the weekly assigned Problem Sets, Math Diary on the material covered in each lecture, and additional materials. The grades for the assignments and exams will be administered through UC Davis Canvas.

**Professor Office Hours.** I will have regular office hours twice a week, on **Mondays 4:00-5:00pm** and **Wednesdays 4:00-5:00pm**. Feel free to come and discuss the material on the Lectures and the Problem Sets. The only three exceptions this Fall are Mondays Oct 12, Nov 2 and Nov 23 where Office Hours will be 3:00-4:00pm.

**TA’s Office Hours.** Sari Ogami’s Office Hours are **Mondays 2:00-3:00pm** and **Tuesdays 4:00-5:00pm**. Shanon Rubin’s Office Hours are **Tuesdays 11-12pm** and **Thursdays 11-12pm** .

**Course.** This course is an introduction to abstract mathematics with an emphasis on rigor and proofs. Learning how to come up with proofs and writing them up in a clear and rigorous manner will be one of our main goals. It is primarily for students with no prior experience with this.

**Textbook.** We will use “The Art of Proof” by M. Beck and R. Geoghegan. The textbook should be accessible through the UC Davis Equitable Access Program. In

addition, there is a version available in the authors' website.<sup>1</sup>

**Grade.** The Final Class Grade **G** is computed with the formula:

$$\mathbf{G} = 0.5 \cdot (\text{PSets}) + 0.25 \cdot (\text{Midterm Exam}) + 0.25 \cdot (\text{Final Project}).$$

**Assignments.** The weekly assignments are due on **Friday** and should be submitted online via **Gradescope** at the beginning of class. The assignments will be posted in the course website as the course progresses. The lowest grade will be dropped.

You are allowed to ask for at most one *unexcused* extension directly to me (R. Casals) and *it must be asked for 48 hours before the deadline*. Late homework will not be accepted under any other circumstances. Use these extensions wisely and I encourage you to directly talk to me about the benefits and drawbacks of using extensions.

**Exams.** There will be an in-class one-hour Midterm on **Friday Oct 30**, conducted remotely. The Midterm Test will strictly follow the given date and time. There will be no make-up exams. So, please plan your schedule and access to an Internet connection accordingly. Please bring your UC Davis Student ID to the Exam.

**Cheating and Online Solutions.** You must read, understand and act in accordance with the **UC Davis Code of Academic Conduct**. In particular:

- (i) It is *forbidden* to upload any of the Problem Sets, or pieces thereof, from any version of the MAT108 Course taught by Prof. Casals at UC Davis to the Internet. This includes sending the Problem Sets to any service for *homework help* or *tutoring*, including e.g. Chegg, CourseHero, Transtutor, Slader amongst others.
- (ii) It is *forbidden* to type a problem from any of the Problem Sets from any version of MAT108 taught by Prof. Casals for an answer from an outside source.<sup>2</sup> This includes sending problems to any service for *homework help* or *tutoring*, including e.g. Chegg, CourseHero, Transtutor, Slader.
- (iii) If you write a solution to a problem which you have not *entirely* developed yourself, you must *cite* the source of the material. In particular, if you are copying a solution from a source, you *must* clearly refer to the source and provide *immediate access* to the source to the Teaching Assistants and the Instructor of Record, whether the source is another person, a website, a book, an online service or any other mean.

Either of the three actions above will be considered a violation of the “UC Davis Code of Academic Conduct of Honesty, Fairness & Integrity”. Students incurring in either of the above behaviors will be reported to the **Office of Student Support and Judicial Affairs** (OSSJA). Note that you can be directly reported to OSSJA for an investigation. Such direct reporting to OSSJA will take place if the TAs or the Professor have clear evidence of cheating misconduct: there will be no tolerance for cheating in Problem Sets and Exams.

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<sup>1</sup><http://math.sfsu.edu/beck/aop.html>

<sup>2</sup>That is any person or software which is not an official instructor of MAT-108 Fall 2020.

**Academic Conduct.** You must read, understand and act in accordance with the Code of Academic Conduct, available at <http://sja.ucdavis.edu/files/cac.pdf>. Inappropriate conduct will be reported to the Office of Student Support and Judicial Affairs.

**Disabilities** If you need special accommodation, please let me know, ideally in advance. The Student Disability Center (SDC) is here to help, and they can do so if you contact them.

Please be aware of the following message by the SDC:

*"Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Student Disability Center (SDC). Faculty are authorized to provide only the accommodations requested by the SDC. If you have any questions, please contact the SDC at 530-752-3184 or [sdc@ucdavis.edu](mailto:sdc@ucdavis.edu)."*

In addition, the SDC also shares:

*"The Student Disability Center (SDC) asks that students interested in serving as paid note takers for this course please contact the Student Disability Center at [sdc@ucdavis.edu](mailto:sdc@ucdavis.edu).*

*Note takers are paid a stipend of \$25 per unit\*, but must have a social security number or have visa status to qualify for an SSN, have a GPA of 2.5 or better, and be in good Academic standing with UC Davis. Students should attach a sample of their notes to the email and put the following information in the subject line: 'note taker', the course code, CRN number, and instructor's name. If selected, the SDC will offer the position to the Note Taker.*

*Notes provided to SDC students needing note takers are not to be posted, sold, or otherwise distributed, either by the note taker or the SDC Student receiving the notes. Note takers and SDC students receiving notes are expected to comply with the UC Davis academic honor code. Thank you in advance for your time and consideration.*

*\* You can volunteer in lieu of payment"*

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