

Math 173B Syllabus

January 1, 2019

1 Logistics

Code:	45200
Instructor:	Travis Scholl (schollt@uci.edu)
TA:	Liam Hardiman (lhardima@uci.edu)
Lecture:	MWF 3:00-3:50 NS1 3112
Discussion:	TuTh 1:00-1:50 NS1 2144
Office Hours (Travis):	MW 2:00-3:00 RH 540N or by appointment
Office Hours (TA):	??? or by appointment
Final:	Mon, Mar 18, 4:00-6:00pm

2 Book

The main book for this course is *An Introduction to Mathematical Cryptography*, which is available for free on UCI internet at <https://link.springer.com/book/10.1007%2F978-1-4939-1711-2>.

For **Sage**, you should look at *Sage for Undergraduates*, which is available online here: <http://www.people.vcu.edu/~clarson/bard-sage-for-undergraduates-2014.pdf>.

You may also want to check out <http://abstract.ups.edu/aata/> for background on algebra. Another algebra book is *Algebra in action: a course in groups, rings, and fields*, which should also be available for free on UCI internet.

3 Webpage

The course webpage is

https://www.math.uci.edu/~schollt/173b_winter_2019/

Please check the webpage regularly.

Grading

Raw grades will be computed as follows:

Homework	5%
Quizzes	15%
Midterm	30%
Final	50%

After evaluating the class performance over the entire quarter, the final grade may be adjusted accordingly.

Homework

Homework due dates will depend on where we are in lecture. Problems will be sent out by email and maybe updated here.

Section	Problems
5.1	5.4, 5.7, 5.9
5.2	5.11, 5.15, 5.18
5.3	5.22, 5.24, 5.27, 5.30, 5.35
5.4	5.36, 5.39
5.5	5.42, 5.44
5.6	5.52, 5.56, 5.59, 5.60
2.5/2.10	2.34, 2.35, 2.37, 2.39, 2.40, 2.41
6.1	6.1, 6.2, 6.3, 6.4
6.2	6.5, 6.7
6.3	6.9, 6.10, 6.11, 6.12
6.4	6.14, 6.16, 6.20
6.6	6.21, 6.24, 6.25, 6.26, 6.27
6.8	6.29, 6.31, 6.33, 6.35
6.9	6.39, 6.40, 6.41, 6.42, 6.46
6.10	6.47, 6.48, 6.49

Quizzes

Quizzes will be given according to the calendar will be graded.

Exams

The midterms will be taken during the usual lecture times, see the calendar for details. You will be allowed both sides of a single hand written standard 8.5×11 size paper. You will not be allowed a calculator. You must bring your student ID to the exams to verify your identity. Please see the registrar webpage for the date/time of the final.

Make-ups

No makeup exams or quizzes will be offered. If you miss a midterm, the final exam will be reweighted. If you miss the final, you will receive an incomplete.

Disability Accommodations

Students who may need disability-related accommodations should talk to me as soon as possible

Cheating

Don't. Following the UCI academic integrity policy is a requirement to pass this class. Please see this website for more information on that policy: <https://aisc.uci.edu/>.

Resources

1. UCI math courses: <http://catalogue.uci.edu/schoolofphysicalsciences/departmentofmathematics/#courseinventory>
2. UCI undergraduate research in math: <https://www.math.uci.edu/math-majors/math-undergraduate-research-resources>
3. UCI counseling center: <https://counseling.uci.edu/>
4. 3Blue1Brown YouTube channel: https://www.youtube.com/channel/UCYO_jab_esuFRV4b17AJtAw
5. Physical Science Student Affairs Counselors: RH 134
6. Private Tutors: <https://www.math.uci.edu/undergrad-courses/tutoring-private>