

Math 143
Spring 2020
MWF 2-3, 70 Evans

Instructor : John Lott
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Office hours : WF3-4

Texts

1. “Undergraduate Commutative Algebra” by Miles Reid, Cambridge University Press
2. “Undergraduate Algebraic Geometry” by Miles Reid, Cambridge University Press

Material to be covered : We will cover the first half of each text, along with additional material if time permits.

Prerequisite

Math 113

Exams

There will be a final exam.

Piazza

We will use the online platform Piazza for posing and answering questions. More about this later. The use of Piazza is completely voluntary. No important announcements will be made through Piazza.

Homework

The weekly homework will be due on Mondays at the *beginning* of class. No late homework will be accepted. Homework assignments are at the end of this syllabus. Any changes in the assignments will be announced.

Grading

Homework 2/3

Final 1/3

Final

Tuesday, May 12, 11:30-2:30

Warning

Some of you may need to get a certain grade in this class in order to graduate. If that's the case, you should work hard to make sure that you do well. To be fair to all of the students in the class, I will grade objectively and will not take special circumstances into account in determining your class grade.

Classroom conduct

No smartphones in class. (I will call you out on this.) Please do not use other electronic devices (iPads, laptops) during class unless you have DSP permission.

Academic Honesty Policy

Collaboration among students on the homework assignments is welcome. (This is a good way to learn the material.) So is the consultation of other sources such as other textbooks. However, every student has to hand in their own set of solutions. If you use other peoples work or ideas, you should indicate the source in your solutions. (In any case, when properly attributed, complete and correct homework receives full credit.) Cheating on the final exam results in an F for the course. Cheating includes but is not limited to bringing notes or written or electronic materials into an exam, copying off another persons exam, allowing someone to copy off of your exam, and having someone take an exam for you. Incidences of cheating will be reported to Student Judicial Affairs, which may administer additional punishment.

Disabilities

If you need accommodations for any physical, psychological, or learning disability, please contact me.

Homework assignments

UCA = "Undergraduate Commutative Algebra"

UAG = "Undergraduate Algebraic Geometry"

Due Monday, Feb. 3 : UAG, p. 24, #1,4,5

Due Monday, Feb. 10 : UAG, p. 25, #7,8 and p. 40, #2

Due Wednesday, Feb. 19 : UAG, p. 40, #3,4,5

Due Monday, Feb. 24 : UCA, p. 15, #7,8,9

Due Monday, March 2 : UCA, p. 33, #1,2,5

Due Monday, March 9 : UCA, p. 35, #8,9,11

Due Monday, March 16 : UCA, p. 35, #15,17 p. 55, #1

Due Monday, March 30 : UCA, p. 46, #1,2 p. 56, #6

Due Monday, April 6 : UCA, p. 48, #15 p. 67, #1,2

Due Monday, April 13 : UCA, p. 55, #4 p. 68, #5

Due Monday, April 20, UCA, p. 82, #1,2,3

Due Monday, April 27, UCA, p. 82, #4,5,11

Due Monday, May 4, UAG, p. 77, #2,7