

# Commutative Algebra (2003, S2)

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**Consultation Hours:** TBA (see webpage)

Most of the information you need to know about the course can be gotten from the webpage above, including a copy of this handout. You should check out the webpage from time to time for announcements such as corrections to lectures etc.

## Assessment

The main objective of this course will be to learn the lecture material. As such, there will be no assignments but instead, for each lecture, I will get one of you to write out lecture notes. This will involve you not only reproducing what I write on the board, but filling in the details you couldn't understand in class, correcting all typos etc. There will be exercises/examples scattered throughout the lecture material and you are encouraged provide answers for these too. The more ambitious amongst you may wish to generalise given examples or even add in your own etc.

You will have two weeks to turn in lecture notes. Before doing so, you should have a little chat with me (yes this is formally part of the assessment). You can chat to me about anything you like but you'll get more marks if it's about maths, and even more if it's about commutative algebra. Suggestions include, talking to me about details in lectures you didn't understand, showing me your answers to exercises in class, questions about why material covered is interesting mathematically etc.

I will briefly check over your lecture notes and put them up on my webpage for all to see (yes, you will be acknowledged in the process). They may be used in later years too.

This component of the assessment is worth 70%. As a rough guideline you will get

70: if after chatting with me, it seems like you understand all of the concepts and their subtleties

60: seems like you understand almost all of the concepts

50: seems like you understand most of the concepts

40: seems like you understand all the basic concepts

Your final mark will be determined by a final exam.

## Additional Assessment Policy

Click on Additional Assessment in Later Years on the webpage  
<http://www.maths.unsw.edu.au/ForStudents/index.html>.

## References

- Sharp, “Steps in Commutative Algebra”
- Jacobson, “Basic Algebra II” P512 94
- Eisenbud, “Commutative Algebra: with a view to Algebraic Geometry”
- Atiyah, MacDonald, “Commutative Algebra”
- Bourbaki, “Commutative Algebra” or “Algèbre Commutative”
- Reid, “Undergraduate Commutative Algebra”
- Kunz, “Introduction to Commutative Algebra and Algebraic Geometry”