

MATH3710: Higher Algebra 1: Group Theory (2005, S1)

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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. There is a tentative syllabus there as well.

Assessment

The grade for this course will be determined from 3 short assignments (worth 15% each) and a final exam (worth 55%). Check the webpage for when the assignments are due (as well as for hints and typos!).

The assignments are meant to be extremely easy, once you have understood the material. The hard part is of course understanding the material. It is expected that most of you will be getting close to full marks in the assignments. If you are having trouble with the assignments, you should talk to other students or to me about it. The most important thing is that you learn the material. The exam however will be hard. It will be designed to distinguish the best students in the class.

Additional Assessment Policy

Click on Additional Assessment in Later Years on the webpage

http://www.maths.unsw.edu.au/students/current/policies/student_info_s1_2005.pdf

Studying for this course

Third year pure maths courses are quite different in nature from those in second and first year. They are considerably more demanding conceptually. There is also much greater emphasis on “bookwork” as opposed to just doing numerical questions. In first year, you answer the same questions over and over again just with different numbers in the question. That is no longer the case in third year where you must demonstrate a good understanding of the material. The lectures are fairly difficult, and it is very important that you try to fill in gaps in your understanding before the next lecture. I expect this will take up a sizable chunk of your study for this course. The rest of your study should include looking at problems on the problem sheets I distribute in class, and looking at books in the library such as the references below.

References

- Artin, “Algebra”
- Armstrong, “Groups and Symmetry”
- Fraleigh, “A first course in abstract algebra”
- Jacobson, “Basic Algebra I” P512 94
- Stillwell, “Elements of Algebra” P512.812 9
- Lang, “Algebra”
- Lederman, Weir (Jeffrey) “An Introduction to Group Theory”