

Lecture 0: Boring admin stuff

Daniel Chan

UNSW

Semester 2 2013

Higher linear algebra

Credit: 6 Units of Credit (6UOC).

Prerequisites: MATH1231 or MATH1241 or MATH1251 each with a mark of at least 70.

Exclusions: MATH2501.

The lectures run weeks 1-12, and the tutorial weeks 2-13 (one hour a week). The lectures are Wed 9:10-10:55, Th 11:10-12:55 with a short 5 minute break in between.

Who am I?

Defn

Course Authority and lecturer: Dr Daniel Chan

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Most of the information for this course can be found either on my webpage or on Moodle.

Tasks

- Class test in the week 6 Thursday lecture worth 15%.
- Class test in the week 11 Thursday lecture worth 15%.
- Final 3 hour exam worth 70%.

Class tests will be 40 minutes long. They will take place in lectures but are otherwise run like your first year class tests. NO calculators & bring student card.

The exam is run under similar conditions to your first year mathematics exams. You are allowed to bring a UNSW approved calculator (see course outlines for details).

Some remarks about this course

- In first year, you were given a quick crash course in linear algebra.
- The approach is fairly concrete, mainly via matrices which pre-supposes a given co-ordinate system.
- The abstract theory of vector spaces is introduced partly to give a co-ordinate free approach to linear algebra.

The abstract theory of vector spaces has many advantages which allow a much deeper understanding of linear algebra. We expected only a few of you to appreciate this in first year. The purpose of this course is to ensure you all appreciate it.

Warning

There are parts of this course which are fairly abstract. For many of you, this will be the hardest part of the course. The computations should by comparison be fairly easy.

In particular, you will be required to write more proofs than you did in first year. MATH1081 is useful but not necessary in this regard.

Please read the course outlines for ...

- suggested references,
- the School's policy regarding additional assessment, plagiarism etc,
- syllabus,
- extra info

Please check Moodle or my webpage for ...

- lecture slides,
- problem sets
- course announcements