

Math 211.3 Course Outline

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Lectures	Tuesday & Thursday, 8:30–9:50, Arts 212
Lab	Thursday, 4:00–4:50, Thor 159

The Final Grade will be determined according to the following table:

3 Tests	50%
Final Exam	50%
Final Grade	100%

A calculator is necessary on an exam.

All exams are 'open book'.

Text: Atkinson — *Elementary Numerical Analysis*, 2nd ed.

The text will be used mainly as a source of practice problems (that will be suggested on a regular basis) and as a source for reading that explains the same material as lectures (but independent of lectures). It may not be necessary to buy this book.

The labs are 'question and answer' sessions (or tutorials) dealing with difficulties that come up when attempting to solve problems suggested for practice. Complete solutions to suggested practice problems will be provided.

Another source of practice problems is a file containing 'old' exams and I believe this can be obtained from the Student Help Centre.

Chapters	Lecture
1,2 + 3	Computing and errors
4	Finding roots
5	Interpolation
7	Numerical differentiation and integration
8	Linear algebra: numerical solution of linear systems and least squares
9	Ordinary differential equations: Euler's method

Examinations:

There will be three tests during the year; one per month.

Exams maybe computer marked.

Tests will normally be written on Thursdays starting at 4:00p.m.

Test 1	Th, Feb. 5
Test 2	Th, Mar. 5
Test 3	Th, Apr. 2

Homepage:

<http://math.usask.ca/miket/math211>

There is a huge amount of information on numerical mathematics on the internet.