

NUMERICAL METHODS — CSC 336

Computer Science

Course Description

Fall 2011

The study of computational methods for solving problems in linear algebra, non-linear equations, approximation, integration, and ordinary differential equations. The aim is to give students a basic understanding of both floating-point arithmetic and the methods used to solve numerical problems as well as a familiarity with the types of subroutines found in typical software packages.

Exclusion: CSC350H1, CSC351H1

Prerequisite: CSC148H1/150H1;
MAT133Y1(70%)/135Y1/137Y1/157Y1, 223H1/240H1;
CGPA 3.0 / enrolment in a CSC subject POST.

Instructor: K. R. Jackson, BA 4228, 416-978-7075 or krj@cs.toronto.edu

Office Hours: by appointment

Email: I'll try to answer your email within a day or so. If my reply will be long, I'll probably ask you to talk to me instead about your question. If the answer to your question will benefit many other students in the class, I will likely copy my reply to the whole class (after removing anything from it that will identify you).

I get a lot of email, so it is a good idea to start the Subject line of your email with "CSC 336" so that I can easily distinguish it from other email.

Web Page: <http://www.cs.toronto.edu/~krj/courses/336/>

Bulletin Board: <https://csc.cdf.toronto.edu/bb/YaBB.pl?board=CSC336H1F>
I'll try to read this every day or two.

Lectures: Mondays in BA 1210 and Wednesdays in GB 120
11 AM to Noon both days.

Monday Make-Up Class, Wednesday, Dec. 7: The final lecture of the course will be on Wednesday, Dec. 7.

Tutorials: Friday 11 AM to Noon.

TA	Room	Students
Tommy Guy	GB 120	A—I
Kirill Ignatiev	BA 2159	J—M
Bo Wang	BA 2175	N—Z

I may use a few Friday tutorial periods for lectures. In that case, the lecture will be in GB 120.

Course Text: Michael T. Heath, *Scientific Computing: An Introductory Survey*, 2nd edition, McGraw Hill, 2002.

I recommend that you buy version from UofT Custom Publishing. It is much cheaper than the version from McGraw Hill and it contains everything you will need for this course.

Grading:

1. Term Assignments: 30%
(Four assignments due Oct. 7, Oct. 28, Nov. 18, Dec. 7)
2. Midterm Test: 25%
(October 21)
3. Final Exam: 45%.

To pass this course, you need a total mark of at least 50%, and you must receive at least 35% on the Final Exam.

The Midterm Test and Final Exam are both closed-book: no aids and no calculators allowed.

Late Policy: Completed assignments must be submitted at the **beginning** of the tutorial or lecture on the date that they are due. Late assignments will be accepted at the **beginning** of the next lecture, with a penalty of 25%. Assignments will not be accepted after that time unless you have a very good reason for being late.

Plagiarism: Please read

<http://www.cs.toronto.edu/~fpitt/documents/plagiarism.html>

<http://www.cs.toronto.edu/~clarke/acoffences/>