

Numerical Algorithms for Computational Mathematics—CSC C37

Computer Science

Course Description

September 6, 2024.

An introduction to computational methods for solving problems in linear algebra, non-linear equations, approximation and integration. Floating-point arithmetic; numerical algorithms; application of numerical software packages.

Instructor: Richard Pancer. Office IA-4054; phone (416)-287-7679;
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Office Hours: (All times are in Eastern Time ET.)
Mondays 11:30-12:30ET; Fridays 13:30-14:30ET.

Website: <http://www.uts.utoronto.ca/~pancer/cscC37>

Lectures: LEC01 Mondays 14:00-17:00ET in IA-1150;
LEC02 Fridays 10:00-13:00ET in SY-110.

Tutorials: Visit <https://www.uts.utoronto.ca/registrar/timetable> for days/times.

Suggested Texts: (1) M.T. Heath, *Scientific Computing: An Introductory Survey (Second Edition)*, McGraw-Hill, ISBN 0-07-239910-4.
(2) R.L. Burden & J.D. Faires, *Numerical Analysis (Seventh Edition)*, Brooks/Cole, ISBN 0-534-38216-9.

Grading:

Final Exam	- 40%
Term Test	- 20%
Assignments	- 40%

To pass this course, you need a total mark of at least 50%, and you must receive at least 40% on the final exam.

The Term Test and Final Exam are both *closed-book*.

Late policy: Completed assignments must be submitted electronically on *MarkUs* by the date and time shown on the assignment handout. Late assignments will be accepted up to 24 hours past the due time with a penalty of 25%.

Absence Declaration in ACORN:

You may use the new *Absence Declaration Policy* **once only** during the term for an assignment or the term test. Click here for details.