

Syllabus

Instructor: Alexandre Caboussat

Office: PGH 662, Phone (713) 743-3491

URL: <http://math.uh.edu/~caboussat/>

Email: caboussat@math.uh.edu

Office hours : M3:00PM-5:00PM, T4:00PM-5:00PM (or by appointment)

Class: MW 5:30 - 7:00PM in AH301

Teaching Assistant (Grader): Evgeny Kikinon (PGH 678, kikinon@math.uh.edu)

Course Homepage: <http://www.math.uh.edu/~caboussat/Teaching/Fall108/MATH4364/>

University Dropping Policies

- The instructor may drop a student for excessive absences (see Catalog/Student Handbook).
- The last (university) date to drop without hours counting towards the Enrollment cap for Texas residents and the last (university) date to drop without the instructor's signature and without receiving a grade:

Monday September 8, 2008

- The last (university) date to drop a course or withdraw for any reason is:

Tuesday November 4, 2008

The instructor will take all questions concerning the **academic honesty** very seriously (see Catalog/Student Handbook).

Text

Numerical Analysis (8th edition), by R.L. Burden and J.D. Faires, Brooks-Cole Publishers. This book comes with programs in different programming languages on-line (in C, Fortran, Matlab, Mathematica, etc):

<http://www.as.yu.edu/~fares/Numerical-Analysis/DiskMaterial/>

These examples will be used for the class. Additional material and/or assignments may also be posted on the course homepage. Please check on a regular basis. The material covered during the fall semester will be (as time permits): Chapters 1, 2, 3, 4, 5, 6. The material in Chapters 7, 8, 9, 10, 11, 12 will be covered during the Spring semester (MATH4365).

References (optional reading)

- A. Ralston and P. Rabinowitz, *A First Course in Numerical Analysis*, Second Editions, Dover, 2001.
- K. Atkinson and W. Han, *Elementary Numerical Analysis*, 3rd edition, Wiley, 2004.
- E. Süli and D. Mayers, *An Introduction to Numerical Analysis*, Cambridge University Press, 2003.
- A. Quarteroni, R. Sacco and R. Saleri, *Numerical Mathematics*, Springer, 2000.
- D. R. Kincaid, E. W. Cheney, *Numerical Analysis: Mathematics of Scientific Computing*, 3rd edition, Brooks Cole, 2001.

Assignments

- There will also be two **in-class exams** and one **final exam (comprehensive)**. Days are given below. The material covered in each exam will be announced in class.
- There will be two **computer mini-projects** to complete during the semester. Deadlines are given below.
- There will be **homework** to complete on a regular basis. The deadlines for your homework will be precised in class.

Exams

There will be **no make-ups** for all these exams. No exceptions will be made.

Exam 1: Wednesday October 1, 2008

Exam 2: Wednesday November 19, 2008

Final exam: Friday December 12, 2008, 5:00-8:00PM.

You are allowed to bring to these exams only your own calculator (no cell phones!). No books, notes and/or exercises will not be allowed. The additional material you may need (if any) will be provided with the exam. Clarity of the redaction will be taken into account. These exams will take place in the regular classroom. Bring your student I.D. with you when taking an exam!

Projects

There will be two computer mini-projects during the semester. You may discuss with your classmates the ideas and concepts of the projects, but you have to work them out by yourself in details. Identical project reports will not be acceptable. Deadlines are the following.

Project 1: Wednesday October 15, 2008

Project 2: Wednesday December 3, 2008

Homework

There will be homework assignments, mainly extracted from the text. Homework will be given in class and posted on the course website. You may discuss with your classmates the homework, but you have to work them out by yourself in details. You may need to use the programs provided with the text to solve some exercises. Identical homework will not be acceptable and clarity of the redaction will be taken into account.

Grade

The grades will be computed as follows. The **final grade** will be composed by:

Homework	100
Exam 1	100
Exam 2	100
Project 1	50
Project 2	50
Final Exam	200
Total	600