Instructor: Lise-Marie Imbert-Gérard  
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Lectures: Tuesday/Thursday 9:30am - 10:45am room MTH B0421
Office Hours: Tuesday 11am-12pm room CSIC 4119, Thursday 8.30am-9.30am room MTH B0421 (or by appointment)
Email: If you email me about anything related to this course, please put [AMSC-CMSC660] in the email’s subject line.


Prerequisites: Must have knowledge of Matlab. Must have knowledge of basic numerical analysis (linear equations, nonlinear integration, interpolation).

Course Materials:

- **Textbook:** Bindel and Goodman, Principles of scientific computing Available online here
- **Additional material:** I will provide references for each chapter. Whenever possible, I will use resources available online. Interesting books include Nocedal & Wright Numerical optimization, Stewart Afternotes on numerical analysis, Demmel Applied Numerical linear algebra.

Matlab: Homeworks problems require very basic programming skills. This is not a programming class, so it will be assumed that you have some basic programming knowledge. You are asked to use Matlab for the computer assignments. Access to Matlab is available on the University computer systems. You can also purchase a student version of the program for your own computer. There are various online resources which teach basic Matlab programming. In case you do not know how to work with Matlab, you should go over some of these resources quickly. Links to several online resources will become available on the course webpage.

Timing of Exam: There will be no midterm exams, there will be one take-home final exam. The Final Exam will be due on Thursday December 13th, by 6pm.

Grading Policy:

- Homework 40%
- Final Exam 60%

- The homework is an essential part of learning the ideas discussed in the course. While I encourage discussions and work in groups, you must be the sole author of all work turned in, including computer programs. You must also properly cite any outside sources you used. Late homework will not be accepted, homeworks are due by noon on Wednesdays in my mailbox in the math department.
• The final exam will be a take home exam. In case of a medical or family emergency, please contact me as soon as is practical, preferably before the exam. In such case: if valid and documented justification is provided, the weight of the missed exam may be shifted to the final exam.

Special Accomodations:

Students With Disabilities: Students with disabilities should provide me with a stamped accommodations sheet from the Accessibility and Disability Service (ADS).

Religious Observances: If you plan to be absent from class because of religious observances, please submit a list of the dates of your absences within the first week of classes

Academic Integrity:

All work that you submit must be your own. You are welcomed to discuss the material with each other in a general way, but you may not consult any one else’s written work. Any marked similarity in form between submissions with different authors might be regarded as evidence of academic dishonesty. You must cite any reference you use and clearly mark any quotation or close paraphrase that you include. Such citation will not lower your grade, although extensive quotation might. Homework should be done individually. The University of Maryland, College Park has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity or the Student Honor Council, please visit Student Honor Council

Counseling: For confidential counseling and help with personal issues, students are encouraged to contact the UMD Help Center, 301-314-HELP (4357).