Name: Dr. Gerard Awanou

Email: awanou@uic.edu

Course Webpage: http://www.math.uic.edu/~awanou/MCS571

Office hours: W 11:00 am–11:50 am, 2:00 pm–3:00 pm and by appointments

Office information: SEO 1221, phone (312) 413-2167

Biography: I’m an associate professor in the department of Mathematics, Statistics, and Computer Science. I received my Ph.d in mathematics in 2003 from the University of Georgia and spent two years as a postdoctoral associate at the Institute for Mathematics and its Applications, University of Minnesota. I then worked at Northern Illinois University for seven years before coming to UIC in 2012. My research interests are primarily in the numerical analysis of partial differential equations. In 2009, I was awarded a Sloan fellowship.

Course information: M W F 12:00 pm - 12:50 pm LH 215

Numerical Solution of Partial Differential Equations by the Finite Element Method by Claes Johnson

Prerequisite: MCS 471 or an undergraduate numerical analysis class or consent of the instructor.

Credit hours: 4

Course goal and objectives: Introduction to the numerical analysis of partial differential equations with the finite difference and finite element methods. Convergence analysis.

Drop and Withdrawals: All drops of or withdrawals from courses must be accomplished before the applicable deadlines indicated in the Schedule of Classes, F Jan 23 for no W and F March 20 for a W.
Homeworks: Homeworks will be given each Friday and collected the following Friday. Late homework will be accepted only under special circumstances and with prior approval and will be discounted by 50%. Homeworks can be resubmitted within two weeks, but late homeworks are not allowed to be resubmitted. Homeworks with a coding component should be done in Matlab and the submitted work should be a detailed report on the numerical experiments. The codes should be printed and attached to the report. In addition you may be asked to email the m-files. Most of the homework will be taken from the list suggested here:

http://homepages.math.uic.edu/~abramov/courses/mcs571

Exams: There will be a midterm take-home exam M Feb 16 and a written final exam during final week M–F May 4–8.

Grade distribution: 60% homework, Grade distribution: 40% exams.


Attendance policy: Students are expected to attend each lecture and participate in the discussions.

Academic Honesty and Civility in the Classroom: Academic honesty and mutual respect (student with student and instructor with student) are expected in this course. Mutual respect means being on time for class and not leaving early, (if you have to leave, arrange to sit near the door and leave quietly), being prepared to give full attention to class work, not reading newspapers or other material in class, not using cell phones, pagers or other electronic devices during class time, no sleeping, no eating, not bringing children to class, not talking to classmates outside of group work, not copying the solutions of the home works from unnamed sources and not looking at another student’s work during exams. Academic misconduct and incivility in the classroom, as defined by the Student Disciplinary Policy, will not be treated lightly.

Disability services: If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it or which will require academic accommodations, please notify me within the first two weeks of class.

Disclaimer: This syllabus provides a general guide for the course: deviations may be necessary. Deviations from the textbook should be expected.