Numerical Analysis Fall 2011

- **Instructor:** Xiaoqun ZHANG, Pao Yue-Kong Library 621
- **Email:** xqzhang@sjtu.edu.cn
- **Lecture:** TR 10:00A-11:40A
- **Office hour:** Tuesday 4:00P-6:00P (office).
- **Textbook:** Numerical Analysis (7th) by R. Burden and J. Faires.
  Please read sections of the book before and after the lecture. You will find this makes it much easier to learn new material.
- **Prerequisite:** Calculus, linear algebra, programming, some knowledge of differential equation is helpful
- **Class web page:** [http://math.sjtu.edu.cn/faculty/xqzhang/2011fall.na/index.html](http://math.sjtu.edu.cn/faculty/xqzhang/2011fall.na/index.html)
- **Computational assignment email address:** 2011fall.na@gmail.com

**Homework**

*Homework* and the due date will be posted every **two** weeks (usually assigned on Tuesday and due on Thursday) on the class webpage. Homework assignments in the course consist of both theoretical and computational work. For the computational assignments, you are required to provide C/C++ code with comprehensive explanation of algorithms and results. For the theoretical problems, you must provide complete solutions with all necessary steps described in detail. In any case, **no late homework** will be accepted.

**Exams**

There will be two written exams. One 2-hour midterm will be arranged at the middle of course, and the final exam will be 3 hours long. No notes, books, calculators or other electronic devices will be permitted during any of the exams. All sections are covered for the final. Bring a photo ID with you to the exams. **No make-up exams** (exceptions for illness with document proof, or emergency).

**Grade policy**

- Written/computational Homework and classroom performance: 15%.
- Midterm: 20%
- Final written exam: 55%.
- Student research project: 10%

Your **one lowest** homework score will be dropped. You must take all exams (midterm and final) in order to pass the class. Cutoffs for letter grades will be determined after the final exam.