

Math 411 – Mathematical Modeling

Fall 2009; MWF 11:15-12:05, HBB 121

Professor: Dr. Chuck Collins

To contact me:

In Person: Aconda Court 106D, Office Hours: MWF 1-2 and by appointment

By Phone: 974-4269 (my office), 974-2461 (math office, leave message)

By Computer: e-mail collins@utk.edu or via Online@UT

By FAX: 974-6576

Textbook: No mandatory text; links to online notes and resources will be provided

Web Resources: The main source of information will be <http://www.math.utk.edu/~ccollins/M411> with a course schedule, copies of handouts and links to other sources. I'll also maintain copies of the material and the grade book on Online@UT.

Course Goals:

1. To learn the basic types of models and how to develop them.
2. To review/learn some basic mathematics useful for analyzing models.
3. To practice technical writing and giving oral reports.
4. To learn how to work in a group on realistic problems.

Class Assignments:

- Homework (40%) - both mathematics problems and writing exercises, assigned about once a week.
- Group Projects (30%) - team based, includes written and oral reports, there will be at least 2 group projects, 3 if we can manage.
- Final Project (30%) - an individual project, involves written and oral reports including a 10 page paper and a final oral presentation. The final presentations will be scheduled during final exams week.

Your final grade will be calculated based on the percentage of available points that you earn. For undergraduates the cutoffs are at (90%, 87%, 83%, 80%,...) and for graduate students (90%, 85%, 80%, ...).

Some additional details:

1. **Late-Work:** Late work is not accepted without prior arrangement or proof of emergency. This is especially true for written reports.
2. **Assignments:** All work should be presented clearly and concisely. You may wish to use a technical word-processor for the projects and maybe even for the homework.
3. **Academic Honesty:** The course follows UT's Honor Statement, thus all work taken from another source must be documented and any work you turn in that is not documented, must be your own. Projects will require references, and so may some of the homework assignments.
4. **Disability Services:** If you need course adaptations or accommodations because of a documented disability or if you have emergency information to share, please contact the Office of Disability Services 209 Dunford Hall (974-6087). This will ensure that you are properly registered for services and receive the services you need.