Computer Science 411/611
Virtual Reality Systems
Fall 2007
Syllabus

Instructor
Dr. Timothy Davis
303 McAdams Hall
656-0309
Office hours: T 5:00-6:00, W 3:00-4:00
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Class Meeting Times
TTh 2:00–3:15

Class Cancellation
Students are expected to wait for 15 minutes after the beginning of class before leaving if the instructor is late.

Textbooks


Grading
Final grades will be based on programming and homework assignments, a midterm test, and a final exam with appropriate weights based on difficulty. The midterm and/or final may be an in-class test, a programming assignment, or an in-class presentation.

Projects/HW 60%
Midterm 20%
Final 20%

Letter grades will be based on a 10-point scale. These ranges may be changed somewhat, but only to your advantage.
**Programming Assignments**

Programming assignments will constitute a significant portion of your grade for the course. Each of these assignments should follow the guidelines listed below.

- **Source Code** For each assignment, you will be notified on the method for submitting code.

- **Late Work** Late assignments will be accepted with penalty deemed appropriate.

- **Independent/Team Work** You must work on projects independently, unless specifically authorized to work in teams. Cheating of any kind will not be tolerated and will result in significant penalties.

- **Webpage** For certain assignments, you will be required to create a webpage, which must include:
  
  - description of the problem
  - description of the solution
  - user’s guide
  - images produced by your code

**411/611 Differences**

Those students registered for the 611 section of this course will be required to submit additional work on some homework and project assignments.

**Course Description**

The course will cover various computer graphics topics in general and specific support of creating virtual environments. A rough outline of topics appears below:

- Introduction
- Tools and Equipment in VR
- Special Topics in Coding with OpenGL
- Mathematics of Virtual Environments
- The Rendering Equation
- Radiosity
- Texture Mapping