Computer Science 411/611
Virtual Reality Systems
Spring 2009
Syllabus

Instructor
Dr. Timothy Davis
303 McAdams Hall
656-0309
Office hours: W 3:00-4:00
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http://www.cs.clemson.edu/~tadavis

Class Meeting Times
TTh 5:00–6:15, McAdams 114

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

Textbooks
William R. Sherman and Alan B. Craig, Understanding Virtual Reality: Interface, Application,
and Design, Morgan Kaufmann, 2003. (optional)


Edward Angel, OpenGL: A Primer (3rd Edition), Addison-Wesley, 2007. (optional)


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