

CMSC 427 – Computer Graphics

Spring 2009 Lectures: Tuesdays, Thursdays 11:00am – 12:15pm CSI 1122

Course Page: <http://www.cs.umd.edu/class/spring2009/cmssc427/>

Professor: Amitabh Varshney, 4407 AVW, (301)405-6761, varshney@cs.umd.edu. Office hours: Wednesdays and Fridays 11:00 – 12:00pm, or by appointment. For an appointment, just drop by my office, or call me, or send me an email and we can fix up a time.

Teaching Assistant: Doug Summers-Stay, 4122 AVW, dss@umd.edu. Office hours: Tuesdays and Thursdays 12:30 - 1:30pm.

Texts: Our main textbook will be:

Fundamentals of Computer Graphics, Peter Shirley, Second Edition, ISBN 1-56881-269-8, A K Peters.

In addition, you will also find the following text useful:

OpenGL Programming Guide: The Official Guide to Learning OpenGL, Version 2.1 (6th Edition) by OpenGL Architecture Review Board, Dave Shreiner, Mason Woo, Jackie Neider, Tom Davis, ISBN 0-321-48100-3, Addison-Wesley.

OpenGL 1.1 Programming Guide is available at <http://www.openglprogramming.com/red/>.

Prerequisites: MATH 240 (linear algebra) and CMSC 420 (data structures). Good knowledge of C/C++ programming. You should be able to independently design, code, and debug moderately sophisticated programs. You should also feel comfortable about concepts related to vectors (spaces and products) and matrices (inversion, products, transformations).

Grading

Assignments	40%
Mid-term Exam	25%
Final Exam	35%

Assignments: All submissions will be due at the beginning of the class on Tuesdays at 11:00am. You can submit three days late by Friday 11:00am for a 20% penalty. To keep the course running on schedule and to allow us to give out sample code for the previous assignment in a timely fashion, you may not submit the assignment after that. Everyone gets one free late in the semester without penalty (i.e. you can submit your assignment once by Friday at 11:00am after the deadline instead of by the Tuesday deadline without losing 20% of your grade). Machine failures will not delay due-dates unless there is a massive catastrophe, announced by me as such. Assume that machine failures will happen and that contention for machines will occur. Start early.

Video Shows: From 10:55am – 11:00am, before each class I plan to show a video illustrating computer graphics. This is cultural: attendance is optional, and you will not be held responsible for knowing what is presented.

Final Exam: Final Exam will be 8:00am – 10:00am on Thursday, May 18, 2009.

Academic Conduct: I expect high standards of professional conduct and ethics. All work that you submit in this course must be your own. Please familiarize yourself and strictly follow our university's Code of Academic Integrity available at: <http://www.jpou.umd.edu/>

Students with Disabilities: If you have a disability for which you require assistance please let me know during the first week of class so that we may make appropriate arrangements.