Introduction to Computer Graphics
CAS CS480/CS680 (Fall 2004)

CS480 Course Description

Introduction to computer graphics algorithms, programming methods, and applications. Focus on fundamentals of two- and three-dimensional raster graphics: scan-conversion, clipping, geometric transformations, and camera modeling. Advanced concepts in computational geometry, computer-human interfaces, animation, and visual realism will be introduced as time and class interest allows.

CS680 Course Description

Graduate-level introduction to computer graphics algorithms, programming methods, and applications. Students attend CS480 lectures and are expected to complete additional work on problem sets, programming assignments, and tests.

Prerequisites

Working knowledge of C or C++ programming and data structures (CS112 or CS113) and linear algebra (MA 242), or consent of the instructor.

Lectures

MWF 1-2pm in CAS 222

Lab Sections and Tutorials

R 12-1pm, and R 5-6pm in the CS Computer Instruction Lab
Lab sections and tutorials will be offered some weeks on OpenGL programming, math related to computer graphics, etc. All tutorial topics will be announced at least a week in advance. There are two tutorial "section meetings" available in a given week. Each section meeting in a given week covers the same material, and can accommodate approximately 24 students.

Instructor

Stan Sclaroff
Office hours: M 2-4pm and W 2-3pm (or by appointment)
Office location: MCS 279, 111 Cumington Street, second floor
E-mail: sclaroff@cs.bu.edu
Phone: 353-8928

Teaching Fellow

Tai-peng Tian
Office hours: TBA
Location: TBA
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Required Texts

Course Home Page

http://www.cs.bu.edu/faculty/sclaroff/courses/cs480/Home.html

All class assignments, schedules, and lecture notes can be found on these pages.

Computer Lab

CAS CS Computing Lab
730 Commonwealth Ave., room 302

Grading

Programming projects 50%
Problem sets 10%
Mid-term quiz 15%
Final 25%

Incompletes will not be given.

Late Assignments

Late programming projects and problem sets will be levied a late penalty of 10% per day (up to 3 days). After 3 days, no credit will be given.

Tests

Midterm: Friday, Oct 22 (in class)
Final: Saturday, Dec 18 12:30-2:30 (location TBD)

Tests are closed-book, but you can bring a 1 page (both sides) crib sheet on normal-sized paper (8.5x11 inches). Preparing a crib sheet is a useful study tool; it helps you to review and organize the material before the test. Your crib sheet should be written out (no mechanical or electronic reproductions are allowed). If you use a crib sheet, you will be asked to turn it in with your test.

Collaboration

All course participants must adhere to the College of Arts and Sciences Academic Conduct Code. Printed copies of the code are available from CAS Room 105. All instances of academic dishonesty will be reported to the academic conduct committee.

Course Mailing List

The course mailing list cascs480a1-l@bu.edu is managed by IT’s majordomo engine. If you preregistered for CS480, then you are already on this list. If you drop the class, they you will be automatically removed from this list.

To subscribe to the course mailing list, send the following e-mail message to majordomo@bu.edu:

subscribe cascs480a1-l address

where address is your e-mail address. This should be in the body of the e-mail. Text in the e-mail subject line is ignored.

Students are encouraged to post course-related messages and questions to the mailing list. To send e-mail to the course mailing list, use the e-mail address: cascs480a1-l@bu.edu.