Computer Graphics I - CS488
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Schedule

• Class
  • Tuesday 2.00 to 3.15
  • BH 304

• Laboratory
  • Thursday 2.00 to 3.15
  • SEL 2250
Syllabus

• Previously listed as EECS 488. Same as Art and Design 488

• Principles of interactive computer graphics. Raster and vector display, techniques and hardware considerations. Introduction to two-dimensional and three dimensional rendering

• Laboratory
Other Classes

- CS 422 User Interface Design
- CS 426 Video Game Design and Programming
- CS 526 Computer Graphics II
  - Scientific Visualization
- CS 527 Computer Animation
- CS 528 Virtual Reality
- CS 594 GPU Programming
- CS 522 Human Computer Interaction
Overview

• Same as Art and Design 488

• Principles of interactive computer graphics. Raster and vector display, techniques and hardware considerations

• Introduction to two-dimensional and three-dimensional rendering
Prerequisites

- CS 340 Software Design
- CS 202 Data Structures and Discrete Mathematics II
- CS 201 Data Structures and Discrete Mathematics I
- Math 180, CS 102/CS 107
- That means you should have practical experience with a high level computer programming language, preferably C or C++. You should also have some knowledge of matrices.
Assignments

- 2D rendering
- 3D rendering
- 3D rendering, with polygons and textures
- Advanced rendering
Lab

- Linux
- Lab room SEL 2250
- Assignment HAVE to work on these machines
- Windows
- ACCC SEL 2265, SEL 2058
- Own machine (home, laptop)
Schedule

• This week: 2 lectures, Tuesday and Thursday

• Following weeks:
  • Tuesday: lecture
  • Thursday: lab
  • First few lab hours: setting up programming environment
Lab work

- 1, 2: setup in opengl
- 3, 4: 2D graphics
- 5: polygons
- 6, 7: transformation, view, projection
- 8: Midterm
- 9, 10: 3D graphics
- 11, 12: lighting and shading
- 13, 14: Final preparation
Lab

• Assignments should work on Linux, on CS machines

• You can still develop on your own platform (win, mac, ...)

Exams

- Midterm
- Final
Books

- Computer Graphics: Principles and Practice in C (2nd Ed.)
  - Foley, van Dam, Feiner, Hughes, Phillips
  - ISBN 0-201-84840-6
  - $60
Office

- Me
- Office hours: 3:15 - 5:00 Tuesdays and by appointment
- 2032 ERF
- Teaching Assistant
- TBA