





- The exam will be similar to midterms, but longer. Closed book, closed electronic device (laptops, phones, etc. should be out of sight).
- 150 marks (in 150 minutes)
- Three types of questions
 - small questions (fill in the blank, many choices given)
 "Can you recognize the concepts?"
 - direct questions (write down short answer)
 "Do you understand the concepts?"
 - problem solving questions
 "Can you use your knowledge in a new situation?"









- Read ALL of Chapters 1-18 and Appendix A, except as noted below
 - Skip all of Chapters 7,8,13
 - Ch 2: skip Eq. 2.5
 - Ch 5: skip 5.4
 - Ch 9: skip 9.3
 - Ch 11: skip 11.2.1 <- change
 - Ch 10: skip 10.3.2, 10.3.3
 - Ch 12: skip 12.2, 12.4
 - Ch 18: Understand concepts. No need to memorize the resampling equation. See lecture notes.



General Changes This Year

- We introduced computer graphics using a modern, shader-based, approach
 - This is now the standard practice, for both OpenGL and DirectX, also WebGL and OpenGL ES
 - A significant change from previous offerings of 314
- A new required textbook, made available online for free from UBC library
 - Tried to stay close to the textbook to make it easier to review material

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 But some changes (e.g., better notation) and additions (e.g., interpolation) as needed















- General: a "space" == coordinates + legal transformations of coordinates
- vector: linear transformations: rotation, reflection, scaling (about origin)
- affine: linear + translation
- projective: affine + central projection

Useful math tools 1: Interpolation

- Bernstein polynomials
- partition of unity
- Bezier curves
- splines

msfor



