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# Computer Graphics CSC317 Winter 2022 Course Syllabus



## Course Page for Computer Graphics course

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### Contributors 3

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### Languages

Tuesdays 15:00-17:00 in ~~BA 1170~~

Zoom (find link on quercus).

Prof. [Alec Jacobson](#)

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+1 416-946-8630

Office hours Tuesdays 17:00-18:00

in ~~BA 5266~~ Zoom.

Tutorials Thursdays 16:00-17:00 in

~~LM 164~~ Zoom/Discord.

Tuesdays 13:00-15:00 in ~~RW 117~~

Zoom (find link on quercus).

Prof. [David I.W. Levin](#)

[diwlevin@cs.toronto.edu](mailto:diwlevin@cs.toronto.edu)

Office hours Tuesdays 15:00-16:00

in ~~BA 5268~~ Zoom.

Tutorials Thursdays 14:00-15:00 in

~~BA 1190~~ Zoom/Discord.

- [Course Overview](#)
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## Course Overview

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This course introduces the basic concepts and algorithms of computer graphics. It covers the basic methods needed to model and render 3D objects, including much of the following: graphics displays, basic optics, affine and perspective transformations, windows and viewports, visibility, illumination and reflectance models, parametric representations, curves and surfaces, texture mapping, graphics hardware, ray tracing, graphics toolkits, animation systems.

Through the weekly seminars at the [Toronto Geometry Colloquium](#), students will be exposed to a wide variety of cutting-edge research in an exciting subdiscipline of computer graphics: geometry processing.

**Prerequisites:** C/C++ Programming, Linear Algebra, Calculus, ([course codes](#)).

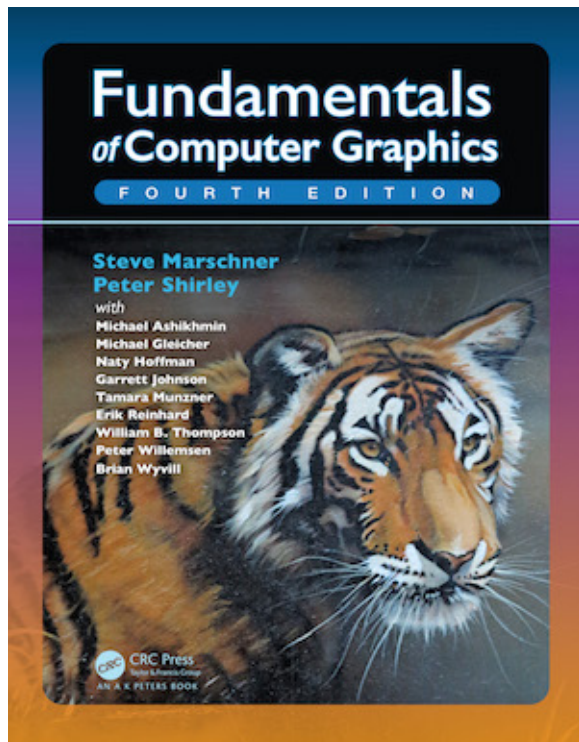
## Discord — Discussion Board

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Please post your questions about the lectures, readings, and assignments on the [Discord](#). TAs will monitor this board and attempt to answer questions as they appear. Near deadlines responses may take longer, so please start assignments early. If your question is not being answered, you may ask it again at the tutorial or office hours.

## Required Textbook

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This class involves *required reading* from:

*Fundamentals of Computer Graphics, Fourth (or Fifth) Edition*, Steve Marschner, Peter Shirley, et al. 2015.

Digital e-book are available at [CRC Press](#).

Students are expected to buy and read the specified chapters of this textbook. Exams and assignments will depend not only material covered during lectures, but also on material from the assigned readings.

## Marking Scheme

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%	Item
5%	<a href="#">Toronto Geometry Colloquium</a> Participation
8%	Assignment 1
8%	Assignment 2
8%	Assignment 3
8%	Assignment 4
8%	Assignment 5
8%	Assignment 6
8%	Assignment 7
8%	Assignment 8
11%	Midterm exam
20%	Final exam

## Lecture Schedule

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*Assignment dates still based on Fall offering. Will be updated soon.*

Week	Topic / Event
	Introduction, Demos

1	Solutions Assignmen (Raster Images) due noon 19/01 (for stude the waitlist: zip your directory and send to TA email address ( <a href="mailto:csc317tas@cs.toronto">csc317tas@cs.toronto</a> ) so that you get a timestamp)
2	<a href="#">Assignment 2 (Ray C</a> tentatively assigned
3	<a href="#">Assignment 3 (Ray Tr</a> tentatively assigned
4	<a href="#">Assignment 4 (Bounce</a> Volume Hierarchy) tentatively assigned (l . /intersections re portion only worth 10
5	<a href="#">Assignment 5 (Mesh)</a> tentatively assigned (l . /quad_subdivision related portion only v 10%) <i>happy Thanksg</i>
6	<i>Work on Assignment</i>
7	<i>Study for exam next</i>
<b>Monday, October 28</b>	In-tutorial Exam (11% grade)
8	<a href="#">Assignment 6 (Shade</a> Pipeline) tentatively assigned
<b>Monday, November</b>	Drop date (consider i

4	current grade is <50%
9	Assignment 7 (Kinematics) tentatively assigned (inverse kinematics related portion only v 10%)
10	Assignment 8 (Mass-Systems) tentatively assigned
11	The future of Computer Graphics
12	Study for exam next week
Final	Final exam (20% of grade)

Academic Honesty (required reading)



## Assignment Policies

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Assignments must be submitted electronically, using [MarkUs](#).

Code that you submit to us must work on the CS Teaching Lab machines in order to earn credit.

0.007% off for every minute late.

All assignments must be completed individually.

## **Academic Honesty**

Any code must belong to the student submitting it. Submitted assignments will be automatically analyzed to identify suspicious levels of code similarity. Consequences of committing an academic offence can be severe.

By enrolling in this course, students acknowledge that they have read and understand the University of Toronto's definitions and policy on Academic Integrity.