

Course Project

Simulation and Modeling (CSCI 3010U)

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<http://vclab.science.ontariotechu.ca>



Course project

- ▶ Project selection by March 4
- ▶ Project topics presentations, March 6
- ▶ Project report due by April 5, 11:59 pm

Project selection

- ▶ Submit a one page abstract that describes the project
 - ▶ Project title
 - ▶ Student names (maximum up to two students)
 - ▶ A paragraph or two that introduce the project

Project team

- ▶ Maximum up to two students

Possible topics

- ▶ Extend one of the labs
- ▶ Pitch me your idea

Some projects from previous years

- ▶ Snake game
- ▶ Lower quality angry bird
- ▶ Airport simulation
- ▶ Baseball pitching and batting
- ▶ Golf putting simulator
- ▶ Flock simulation
- ▶ Fish pont
- ▶ Car colliding with an object
- ▶ Grassy field in windy conditions
- ▶ Billiard
- ▶ Leafs blowing in the wind
- ▶ Pinball Frenzy
- ▶ Circuit simulator
- ▶ 3D soft body simulation
- ▶ Pachinko style game
- ▶ 2D fluid simulation
- ▶ Plinko game simulation
- ▶ Moving car
- ▶ Plant growth
- ▶ NHL line brawl
- ▶ Ocean Waves and their Dynamics
- ▶ Crowd simulation

Topics presentation

- ▶ I may ask you to give a brief 2 minutes pitch for your project
- ▶ It is useful since it allows your classmates to see what you plan to do
 - ▶ Creates opportunities for collaboration

Project report (due by April 5)

- ▶ For your final project write-up you must use the VCLab course project template available at Overleaf.
- ▶ Project report is expected to be between 4 to 8 pages.
- ▶ Possible sections
 - ▶ Introduction
 - ▶ Related work
 - ▶ Methodology
 - ▶ Results
 - ▶ Discussion and Conclusions
 - ▶ Link to a code repo (private if needed)
- ▶ Additionally, you may submit a 3 minutes video for your project.

Grades

Project grade will depend on

- ▶ the ideas;
- ▶ how well you present them in the report;
- ▶ how well you position your work in the related literature;
- ▶ how thorough are your experiments; and
- ▶ how thoughtful are your conclusions.

Additionally, the quality of writing has a major impact on the overall project grade.

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