

## CSC 454: System Simulation Fall 2023

**Place and Time:** TR 3:55 p.m. – 5:15 p.m.; Tuesdays sync online; Thursdays in Shineman 132

**Instructor:** Alex Pantaleev

**Office:** Shineman 441

**Office Hours / Lab Time:** by appointment

**Email:** [aleksandar.pantaleev@oswego.edu](mailto:aleksandar.pantaleev@oswego.edu)

**Course Webpage:** <http://www.cs.oswego.edu/~alex/>

**Short Description:** The course includes instruction in simulation and modeling techniques. Discrete time and discrete event models are covered.

**Objectives:** Upon the successful completion of the course, students will be able to write a discrete-event simulator; build a model; apply knowledge of algorithms and data structures for simulations.

**Textbooks:** There is no required textbook. The recommended book is *Building Software for Simulation* by J Nutaro.

**Exams:** There will be no final exam in this course.

**Project / Homeworks:** There will be a total of seven homeworks, most of which combine to form a larger project. The project consists of a framework for simulation software. Most homeworks include programming a simulation as well as developing the underlying infrastructure to generalize the software to other similar simulations. **Each homework must be demonstrated within one week of its deadline to receive a grade.**

### Grading Policy:

- Homework 1: 16%
- Homeworks 2—7: 14% each

There is no curve. The grading scale is:

93 and up	A
90 to 92.99	A-
87 to 89.99	B+
83 to 86.99	B
80 to 82.99	B-
77 to 79.99	C+
73 to 76.99	C
70 to 72.99	C-
67 to 69.99	D+
63 to 66.99	D
60 to 62.99	D-
Below 60	E

**Policies:**

- Class sessions on Tuesdays will be held in a synchronous online fashion. Class sessions on Thursdays will be held in person.
- The *prerequisite* for this class is CSC241.
- Course assignments are to be electronically submitted.
- Assignments electronically submitted after 11:59pm of the due date will be considered late. It is possible to submit an assignment late by no more than a week with a 50% penalty.
- Assignments that do not compile will receive no credit.
- It is your responsibility to find out when the CS labs are open.
- *It is also your responsibility to check the course webpage and your email accounts regularly.*
- There will be one per cent deducted from a student's final course grade per cell phone ring/call/text message or other noise from electronic devices in class. Please turn off your cell phones and other distractions.
- If you have a disabling condition that may interfere with your ability to successfully complete this course, please contact the Disability Support Services Office at (315) 312-3358 or DSS@oswego.edu .
- Academic Misconduct Policy: Students must work individually on all assignments and projects. Group work is not permitted. If assistance is necessary, the instructor can be contacted during office hours, by electronic mail or by making an appointment. Plagiarism, cheating, and the like will result in a failing grade for the course or, at the discretion of the instructor, in disciplinary action through the respective SUNY Oswego office.