

# Discrete Mathematical Modeling - Math 381 A - Winter 2020

**Lecturer:** Dr. Matthew M. Conroy

**Office:** In the Math Study Center, Communications B-014

**Email:** conroy@math.washington.edu  
(always specify Math 381 in the subject line)

**Web page:** [www.math.washington.edu/~conroy](http://www.math.washington.edu/~conroy)

My office hour times can be found at the web page above. Office hours are times when you can speak to me without making an appointment - just stop by. If you can't make those hours, let me know and we can find other times to meet.

**Course topics:** This course will introduce you to a number of mathematical modeling concepts and methods including linear and integer programming, graph theory, markov processes, multidimensional scaling, monte carlo simulation and queuing theory.

**Text:** There is no required text for this course. There will be readings listed on the course website as the course progresses.

**All cell phones, laptops and tablets should be put away during lectures, unless you are presenting, taking notes, or doing an in-class writing assignment.**

**Short writing assignments:** Short writing assignments will be listed on the class website, or announced in class. These may include in-class writing assignments.

You are encouraged to work with other students to complete these assignments. However, the work you turn in must be your own. **Do not copy another student's work, and do not allow your work to be copied.**

**Late assignments will not be accepted.** However, you are allowed to miss *one* assignment, for any reason, without penalty to your grade. This is implemented by dropping each student's lowest assignment score when calculating each student's assignment average. It is always to your advantage to turn assignments in rather than not.

**If your homework average is less than 50% of the class median homework average, your course grade will be less than 2.0.**

**Graded assignments must be picked up no later than the end of the next class day after the day that assignments is returned.** Failure to do so will result in a significant reduction of points from your assignment score.

**Participation:** It is essential that you come to every class meeting. Attendance is **mandatory** at every student presentation.

**Projects:** There will be two course projects, each of which will culminate in a paper. You will work in groups on these projects. I will assign groups by the second class meeting. Each student will get a separate project grade based on an assessment of the paper, and the student's contribution to the paper, as determined by the other members in the group.

Groups will also present their papers. Presentation performance will be part of the project grade. The presentations will be no more than 10 minutes long.

## Important Dates:

	proposal due	project due	presentations
Project One	Jan 24	Feb 7	Feb 10,12, 14
Project Two	Feb 21	Mar 6	Mar 9, 11, 13

## Grading:

office visit, no later than October 4	1 %
short writing assignments	21 %
first paper	39 %
second paper	39 %

To have your project proposal approved, at least two group members must together discuss the proposal with Dr. Conroy in office hours on or before the proposal due date. **Failure to get your project approved on time will result in loss of points to your project.**

If you feel that an error in grading has occurred, you have **one week** after the graded material is returned to bring it to Dr. Conroy's attention. You should stop by Dr. Conroy's office hours to discuss it.

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at <https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/>. Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form at <https://registrar.washington.edu/students/religious-accommodations-request/>.