

Course Syllabus

Information At-A-Glance

Instructor:	
Name:	Adam Blank
E-mail:	b1ank@cs.uw.edu
Office:	CSE 444
Office Hours:	Mon: 11:00am – 12:00pm
	Mon: 4:30pm – 5:30pm
	Tue: 2:00pm – 3:00pm
	Fri: 4:30pm – 6:30pm
Or by private meeting .	

Course Website:
http://cs.uw.edu/311
Visit early. Visit often.

Lecture
SIG 134 on MWF 1:30 PM – 2:20 PM
GWN 301 on MWF 3:30 PM – 4:20 PM

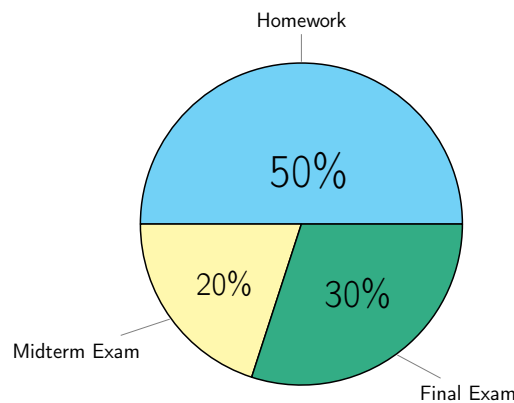
Optional Textbooks:
<ul style="list-style-type: none"> • Rosen, <i>Discrete Mathematics and Its Applications</i> • Velleman, <i>How to Prove It</i> • MIT 6.042 Text

Course Overview

This course covers the mathematical foundations of Computer Science. Prerequisite: CSE 143. Examines fundamentals of logic, set theory, induction, and algebraic structures with applications to computing; finite state machines; and limits of computability.

Assessments

Every assessment we give you has a very important purpose to your understanding of the material. Here’s a handy pie chart that explains how your grade will be calculated:



Homework. The homework is the heart and soul of this course. You will practice the concepts we discuss in class in three types of questions:

- Some of the questions will be *written exercises*. These will usually be either logical analyses or proofs.
- Some of the questions will be *programming exercises*. These will usually be applications of the material we’re studying.
- Some of the questions will be *online exercises*. These will often allow multiple attempts.

Exams. We will have one midterm and one final exam. The midterm will be held in lecture.

To pass the course, you must turn in an attempt at every homework assignment.

Late Policy

You will have **four** “tokens” to use in the middle and at the end of the quarter. A “token” may be used to re-submit a single *written* homework question *after you have received feedback*. You may not use tokens to re-submit online exercises.

If you want to use a token on a question that was given back before the midterm, you must submit it before the midterm. If you want to use a token on a question that was given after the midterm, you must submit it before the final. Leftover tokens will not contribute to your grade in any way. When you resubmit a question using a token, we will grade your re-submission along with the extra information you provide. Your grade will go up proportionally to how convinced we are that you understand the mistake you made.

If unusual circumstances truly beyond your control prevent you from submitting an assignment or attending an exam on time, you should discuss this with the instructor, preferably in advance. (Even if you’re sick in bed at home, you should still be able to send an email.) If you contact the instructor well in advance of the deadline, we may be able to show more flexibility in some cases.

Extra Credit

Assignments will often have extra credit problems. They will be scored separately from the regular problems, and they will have relatively little impact on course grades. The main incentive for doing the extra credit problems is for the challenge of doing the problems. Extra credit will be factored into the grade *after grades have already been calculated*.

Getting Help

Please don’t be afraid to ask for help if you don’t understand something. Adam holds *at least three* office hours a week, and he gets lonely and bored if you don’t show up! He also shows up early to lecture and is happy to answer any questions you might have before or after lecture.

At office hours, you can ask for clarification on a lecture (or for a *repetition* of the lecture!). You can ask for help with a frustrating part of the homework. You can even show up just to tell us you’re frustrated and vent.

Here’s some first steps on how to get help:

- Come to office hours
- Ask someone on course staff questions before/after lecture, before/after section, etc.
- Post on Piazza asking a question

Collaboration & Academic Integrity

As above, there are three types of homework questions: written, programming, and online. These three types of questions have different collaboration policies.

Written and Programming Questions. These must be *written* individually, but it is okay to *discuss* these problems with several other students. You may not *write* up solutions in a group or record anything from your discussions, but we *want* you to attempt them together.

Online Questions. These must be done *completely individually*. You may discuss them with members of course staff, but you *may not* work with other students on them.

You may *not* consult the Internet for problems or key-phrases. This includes Google, MathOverflow, reddit, and any other website.

If you turn in work that violates the cheating policy, you will be reported to the University and receive a zero on the relevant question(s). You may, however, re-attempt the question(s) by using a token. Your new grade on the question will be calculated as $\frac{\text{new score}}{2}$.