

INTRODUCTION TO DATA STRUCTURES and ALGORITHMS

R u t g e r s U n i v e r s i t y

0. COURSE LOGISTICS

- **Lectures**
- **Recitations**
- **Resources**
- **Grading**
- **To Remember**
- **Research Statement**



Lectures

Coordinated course

- ALL lectures and recitations cover the same material
- Same assignments and same exams across ALL sections

Two instructors across 4 lectures:

- Ana Paula Centeno (course Coordinator)
- Lily Chang
- Apoorva Goel

Click on Staff at our course website <https://ds.cs.rutgers.edu> for contact information and office hours

Recitations

Recitations are for you to practice the concepts learned in class.

Group Problem-Solving Exercises



Led by Learning Assistants – Undergraduate Peer Leaders

PARTICIPATION REQUIRED

- Under Canvas Modules
 - Recitation problems and solutions
 - Pre and Post recitation quizzes

Section 01 Notes: A GRADE BELOW A "C" IN A PREREQCOURSE WILL NOT SATISFY PREREQ*CREDIT NOT GIVEN FOR BOTH01:198:112 AND 14:332:351*									
Section 01 Comments: Go to http://canvas.rutgers.edu , Please contact the department offering this course to confirm technology requirements, Course section taught by remote instruction - see https://scheduling.rutgers.edu/remote-instruction for details, Course may require: Webcam, Microphone, Phone Camera or Scanner									
01 CLOSED	08433	Tuesday	3:20 PM - 4:40 PM	BUS	M	CENTENO, ANA	Books	Register	
		Thursday	3:20 PM - 4:40 PM	BUS					
		Thursday	5:15 PM - 6:10 PM	BUS					

The 55 minutes listing in your schedule is the recitation

Resources

- Textbook **Algorithms**, 4th Edition, Robert Sedgewick and Kevin Wayne, Princeton University
- Course content on website <https://ds.cs.rutgers.edu>
- Canvas <https://rutgers.instructure.com/courses/187703>
- The CAVE is available to students – no appointment necessary
 - <https://resources.cs.rutgers.edu/docs/rooms-equipment/cave/>
 - Monday through Thursday, 1-11PM
 - Friday 1-6PM
 - Sunday 3-11PM
- Instructional Labs Systems (Desktops) in Hill 120, Hill 248, and Hill 252.
- RU CATS - Rutgers Computing Academic Tutoring System
 - More info in the next slide



Resources

AWICS (Advancing Women in Computer Science) is introducing RU CATS, the Rutgers Computing Academic Tutoring System to:

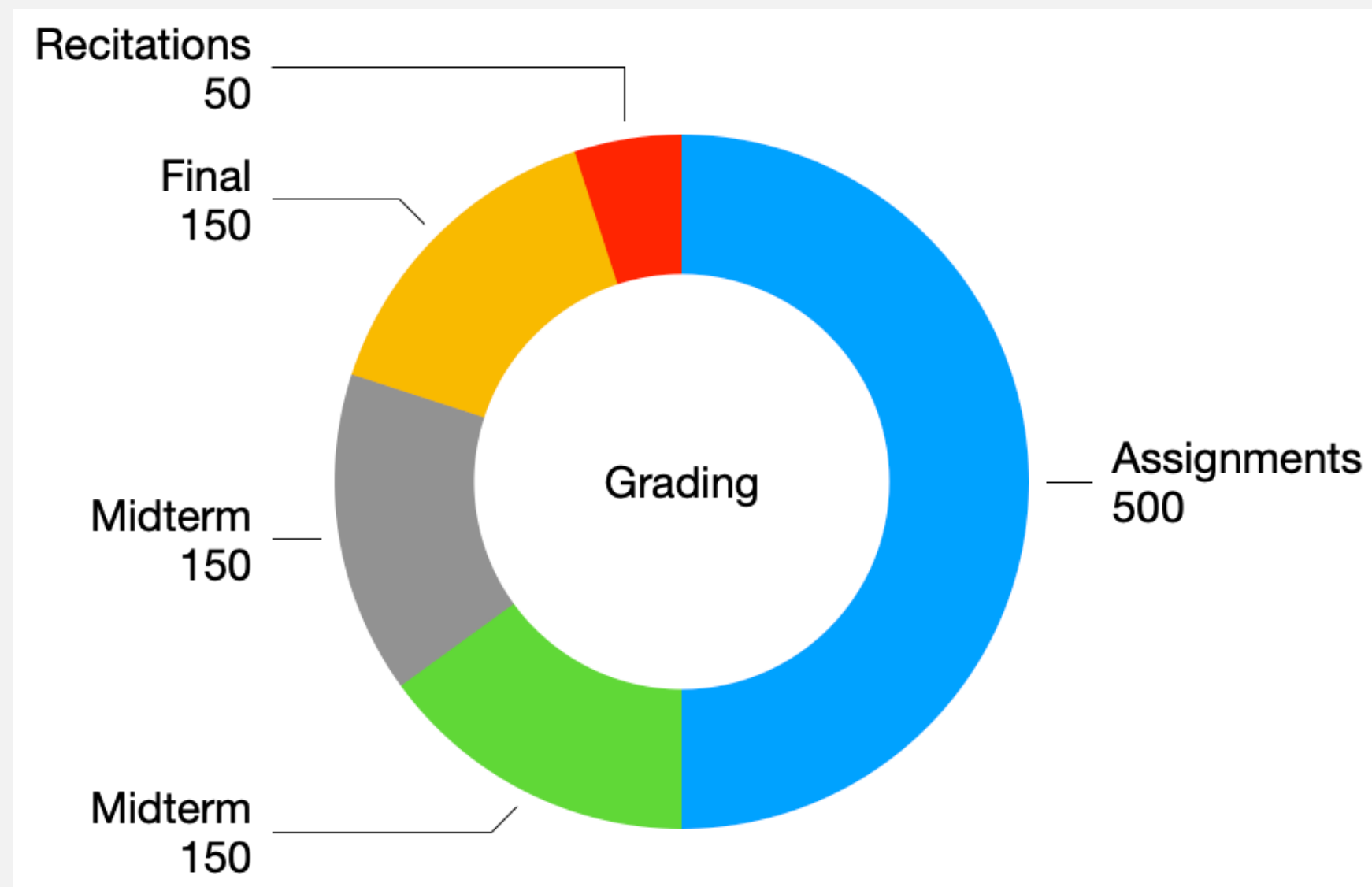
- hold weekly office hours to assist you with your academic work.
- create an inclusive community for students taking Computer Science courses at Rutgers University.
- build a peer network that fosters encouragement and support for the learning and academic persistence of all students regardless of identities.
- assist the CS Study Group Leaders/Learning Assistants in guiding the students to advance their knowledge and understanding of the course(s).

Refer to the **Canvas -> Tutoring** for their drop-in office hours.

Office hours start on the second week of classes.

Grading

Class Grade out of 1000 points



Course Points	Letter Grade
900	A
850	B+
800	B
750	C+
700	C
600	D

Cutoffs are **strictly** followed

- **Exams:** 2 midterms and a final
- **Assignments:** 5 programming
 - Each assignment has an early submission option worth 10 points of extra credit
- Each **recitation** is 5 points: 3 attendance, and 2 quiz
 - Quiz points are dependent on recitation attendance
 - If you don't attend a recitation: 0 points

To Remember

Read course Policies on <https://ds.cs.rutgers.edu>

Add assignment due dates and exam dates to your calendar

<https://ds.cs.rutgers.edu/assignments/>

<https://ds.cs.rutgers.edu/exams/>

Assignments

- Assignments are due at **11PM**
- **Early submission** (10 points of extra credit) if you submit the first method within -week after release date
- All assignments have a 3 days extension built-in
- DO NOT email your assignment, use Autolab
- 0-tolerance policy for misreading due dates or not following directions
- **NEW** Autolab uses Moss to detect software similarities

Extra credit for two surveys

- Entry survey will be available in the first week of classes
- Exit survey will be available at the last week of class

To Remember

AutoLab (programming assignments)

- 3 submissions without penalty
- 5% penalty for each submission thereafter
- Grade based on the last submission

- Each submission receives a feedback
 - **READ** the feedback to improve your assignment
 - Depending on the system load, the feedback may take up to 1 day to be returned

- Programming assignments have a built-in extension of 3 days:
 - if you submit up to 24 hours after the deadline a 5% penalty applies.
 - if you submit after 24 hours but before 48 hours after the deadline a 15% penalty applies.
 - if you submit after 48 hours but before 72 hours after the deadline a 25% penalty applies.

To Remember

Everyone belongs in CS112! The course staff is very excited to have you in this course and we hope that you have a great semester. Feel free to approach any of us, we are here for you.



This is the second Computer Science course – the science of solving problems with the aid of a computer.

The objective of this course is to study a variety of *algorithms* – methods for solving problems that are suited for computer implementation. Algorithms go hand in hand with *data structures* – schemes for organizing data that leave them amenable to efficient processing by an algorithm.



Research Statement

As Rutgers is a research university there is a possibility that by enrolling in this class you may be asked to participate in a research study. Participation in any such study will be optional and at no time will participation in a research study be part of a grade or a requirement for this course. This notification does not imply that by enrolling in this class you have provided consent to be a subject in a research study. Should you be asked to participate in a research study a consent form will be presented to you describing the study and asking for your signature. Participation in research is always voluntary and refusing to participate will have no adverse effects on your standing in the course. To learn more about research at Rutgers University and Human Subject research go to:

<http://orsp.rutgers.edu/index.php?q=content/institutional-review-board-irb>

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Last updated on 1/8/21