

CSCI-UA Section 011, Data Structures (Spring 2024)

Instructor Information

- Alan N. Amin
- **Office:** 60 Fifth Ave, Room 360.
- **Email:** csc102.amin@gmail.com
- **Recitation leader:** Charlie Chen

Course information

Course hours: Mondays and Wednesdays 12:30-1:45 at WW317

Office hours: Tuesdays 3:00-5:00 at 60 Fifth Ave, Room 360.

Recitation leader office hours: Provided by Charlie Chen

Prerequisites: Passing CSCI-UA.0101 with a grade of C or better.

Testing out of this course: See the [Placement](#) page at the CS department website

[Brightspace](#)

[Course notes](#)

Textbook: Data Structures and Algorithms in Java by Goodrich, Tamassia, and Goldwasser

[More general course info](#)

Course overview and topics covered

We will cover a variety of data structures and algorithms to build and manipulate them. The structures we will cover will include linked lists, stacks, queues, trees, binary search trees, AVL trees, heaps, hash tables, and optionally graphs and priority queues. We will cover algorithms to build, search, and sort with these data structures; we will cover efficient sorting algorithms such as merge sort, quick sort, and heap sort. We will also cover general techniques for constructing algorithms, like recursion, and ways to evaluate the efficiency of algorithms using big-oh notation. Finally we will review advanced java topics such as polymorphism, abstract classes, interfaces, generics, and exceptions.

Assessments and grading:

Your percentage grade is calculated as

1. Two exams: **20%** for the midterm and **30%** for the final.
2. 6-8 Quizzes: **30%** completed at the beginning of class or in recitation.
3. 4-6 Programming Projects: **20%**.

The final course grade will be assigned as follows:

Score	Letter Grade
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95-100	A
90-95	A-
87-90	B+
83-87	B
80-83	B-
76-80	C+
72-76	C
65-72	D
< 65	F

You will only get a grade of *Incomplete* if miss the final exam for a reason verified and approved by the Dean Of Students. Not for any other reason.

Support resources

I'm always available for help after class and during office hours. You also have your recitation leader for assistance during recitation and their office hours. Finally, the computer science department offers [daily additional tutoring hours](#) and [a question and answer forum](#) for this course. Everyone in the department is enthusiastic to help you learn, especially me!

Attendance

If you miss a quiz for a valid reason, send an email to csc102.amin@gmail.com. All missed quizzes will be made up on a day near the end of the semester.

Assignment Grading

If your program does not run at the time you have submitted it, you get a 0. Everyone receives an automatic extension of 2 days past the due date of the project in case of emergency (you must send an email to csc102.amin@gmail.com). If your assignment is handed in more than 2 days after the deadline for any reason, you get a 0.

Disability Disclosure Statement

Students requesting academic accommodations are advised to reach out to the Moses Center for Students with Disabilities as early as possible in the semester for assistance.

Henry and Lucy Moses Center for Students with Disabilities

Telephone: 212-998-4980

Website: <http://www.nyu.edu/csd>

Email: mosescsd@nyu.edu