

# Syllabus (CISC-187 Data Structures in C++)

---

## Course information

Course name	CISC-187 Data Structures in C++
Year	Spring 2023-24
Class ID	26489
Section	3001
Location	Online
Course resource	Course contents are available in Canvas <a href="https://sdccd.instructure.com">https://sdccd.instructure.com</a>
Duration	Jan 30 – May 27 (16 weeks)
Professor	Dr Danish Khan
Office hours	Tue 9:30-10:30 am - Online (Booking required via an email)
Email	dkhan1010@gmail.com

## Important dates/deadline

30 Jan	Spring 2023 Primary 16-Week Session Begins
10 Feb	<b>Student Add/Drop:</b> Deadline to drop classes with no "W" recorded
13 Feb	Instructor Drop/Census: All drops must be submitted by Noon
17-20 Feb	<b>Lincoln/Washington Day (CAMPUS CLOSED)</b>
31 Mar	<b>Cesar Chavez Day (CAMPUS CLOSED)</b>
14 Apr	<b>Pass/No Pass:</b> Deadline for the student to select the P/NP option. <b>Withdraw:</b> Last day to withdraw from classes and receive a "W". No drops accepted after this date. Thereafter, a student must receive a letter grade.
27 May	Session end
29 May	<b>Memorial Day (CAMPUS CLOSED)</b>
2 Jun	<b>Grades:</b> Deadline for instructors to submit final grades

## Instructor communication policy

**Danish Khan:** The best way to reach me is via my email [dkhan1010@gmail.com](mailto:dkhan1010@gmail.com)

If I have not responded to your message within 24 hours, Monday through Friday, or within 48 hours on the weekend, then please resend the message to my email. Messages sent on Friday evening, Saturday, Sunday, or during holidays may have a slower response time.

## Course outline and schedule

Week	Date	Topics	Deadlines
1	30 Jan	Introduction to Data Structures and Algorithms	Assignments due on 5 Feb
2	6 Feb	Searching and Big O Notation	Assignments due on 12 Feb
3	13 Feb	Sorting Algorithms I	Assignments due on 19 Feb
4	20 Feb	Sorting Algorithms II	Assignments due on 26 Feb
5	27 Feb	List	Assignments Due on 5 Mar
6	6 Mar	Stacks and Queues	Assignments due on 12 Mar
7	13 Mar	Hash Tables	Assignments due on 19 Mar
8	20 Mar	Trees	Assignments due on 2 Apr
<b>Spring break (27 Mar - 1 Apr) - No classes</b>			
9	3 Apr	Balanced Trees	Assignments due on 9 Apr
10	10 Apr	Heaps and Treaps	Assignments due on 16 Apr
11	17 Apr	Sets	Assignments due on 23 Apr
12	24 Apr	Graphs	Assignments due on 30 Apr
13	1 May	Algorithms	Assignments due on 7 May
14	8 May	B-trees	Assignments due on 14 May
15	15 May	Project work	No assignments
16	22 May	Project work	<b>Project due on 26 May</b>

## Textbook

I recommend following my notes and resources provided on the course site in Canvas. The following resources are for your reference only.

1. Drozdek, Adam. Data Structures and Algorithms in C++, 4th ed. Cengage Learning, 2012, ISBN: 9781133608424
2. Gaddis, Tony. Starting Out With C++ From Control Structures through Objects, 9th ed. Pearson, 2018, ISBN: 9780134498379
3. Gaddis, Tony et al. Starting Out with C++: Early Objects, 10th ed. Pearson, 2019, ISBN: 9780135862391
4. Stroustrup, Bjarne. The C++ Programming Language, 4th ed. Addison-Wesley 2013, ISBN: 9780321563842

## Software and hardware resources

- Minimum Laptop/desktop requirements: Intel/AMD CPU, 4GB DDR3/4 generation RAM, 40+GB hard drive, 64-bit OS (Windows/OSX), Microphone, and high-speed Internet.

- SD Miramar students may check out laptops from the library, dependent on availability at <https://sdmiramar.edu/library/materials-checkout>
- Students may be eligible for emergency broadband internet discounts at Affordable Connectivity Program <https://www.fcc.gov/acp>

## Grading scheme

Grade	Percent	Description
A	>90	Work of genuinely superior quality.
B	80-89	Passing performance falls approximately in the upper distribution of passing grades.
C	71-79	Passing performance falls approximately in the center of the distribution of all passing grades.
D	65-70	Passing performance falls approximately in the lower distribution of passing grades.
F	<65	Failing performance that does not satisfy the basic requirements of the course and needs to be improved in significant ways.

## Course evaluation schemes

Evaluation type	Out of 100
Weekly lab assignments	50
Discussions	20
Project	30

## Late/due work

You must submit your coursework by the due date indicated on the Schedule of Assignments shown in Canvas. Some modules may require more time to complete than others. It is your responsibility to allocate the time needed to complete your work. Be sure to begin your work before the due date. **Late work is not accepted.**

## Attendance/Absences

- It is the student's responsibility to drop all classes in which they are no longer participating (**for online classes**).
- It is the student's responsibility to drop all classes in which they are no longer attending (**for on campus classes**).
- It is the instructor's discretion to withdraw a student after the add/drop deadline due to excessive absences.
- Students who remain enrolled in a class beyond the published withdrawal deadline, as stated in the class schedule, will receive an evaluative letter grade in this class. (A, B, C, D, F, P, NP)

## Accommodating Students with Disabilities

- Students with disabilities who may need academic accommodations are encouraged to discuss their authorized accommodations from Disability Support Programs and Services (DSPS) with their professors early in the semester so that accommodations may be implemented as soon as possible.
- The faculty member will work with the DSPS Office to ensure that proper accommodations are made for each student. By law, it is up to the DSPS Office, through the interactive process with the student, to determine which accommodations are appropriate, not the instructor. This includes accommodations in a clinical setting.
- Students that need evacuation assistance during campus emergencies should also meet with the instructor as soon as possible to ensure the health and safety of all students.

For more information, you may contact the DSPS Office on your campus or the website at <https://www.sdccd.edu/about/departments-and-offices/student-services-department/dsps/index.aspx> or refer to Administrative Procedure, AP 3105.1 Academic Accommodations and Disability Discrimination for Students with Disabilities.

## Cheating/Plagiarism

Students are expected to be honest and ethical at all times in the pursuit of academic goals. Students who are found to be in violation of Administrative Procedure 3100.3 Honest Academic Conduct, will receive a grade of zero on the assignment, quiz, or exam in question and may be referred for disciplinary action in accordance with Administrative Procedure 3100.2, Student Disciplinary Procedures.

## Honest Academic Conduct

- Students are expected to adhere to the Honest Academic Conduct policy at all times. Students who violate the Honest Academic Conduct policy may be removed from class by the faculty for the class meeting in which the behavior occurred, and the next class meeting.
- **For online classes:** Student access to class is removed for one week (5 instructional days).
- Acceptance of make-up work during the removal will be decided by the instructor based on the incident.
- Incidents involving removal of a student from class will be reported to the college disciplinary officer for follow up.

The Honest Academic Conduct policy can be found in Board of Trustees Policy, BP 5500, Student Rights, Responsibilities, Campus Safety and Administrative Due Process posted on the District website at: [https://www.sdccd.edu/docs/District/procedures/Student Services/AP 3100\\_03.pdf](https://www.sdccd.edu/docs/District/procedures/Student%20Services/AP%203100_03.pdf)

---

Last updated on Jan 2023