Design and Analysis of Data Structures
Course Information

General information:

This course has two sections taught by two instructors. Anya Tafliovich is the course coordinator, which means that she deals with all administrative matters, including missed work, problems with your grades, and TA issues.

Instructor	Email	Section	Lecture Time
Albert Lai	trebla@cs.utoronto.ca	LEC01	M1-2, R3-5
Anya Tafliovich	anya@cs.utoronto.ca	LEC02	M9-10, R9-11

Coarse goals:

We will study design, analysis, implementation, and comparison of efficient data structures for common abstract data types. We will focus equally on both theoretical results (e.g., proofs and complexity analyses) and practical uses and implementations of these data structures.

Textbook, software, and documentation:

Introduction to Algorithms by Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein; The MIT Press; third or fourth edition.

All software we will use is freely available. You are encouraged to consult official distribution sites (see course web site).

Accessibility Statement:

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach your instructor and/or the AccessAbility Services Office as soon as possible. We will work with you and AccessAbility Services to ensure you can achieve your learning goals in this course. Enquiries are confidential. The UTSC AccessAbility Services staff (located in AA142) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (416) 287-7560 or ability@utsc.utoronto.ca. Enquiries are confidential.

Diversity Statement:

Diversity is central to who we are and what we do at the University of Toronto Scarborough. We believe it is vital to foster diversity in all facets of our campus culture. In this course, it is the responsibility of each and every one of us — the instructors, the teaching assistants, and, most importantly, the students — to provide a welcoming and supportive environment for all. If you have a concern, please feel free to approach your instructor, course coordinator, or the UTSC Equity & Diversity Office as soon as possible. Enquiries are confidential.

Contacting the Instructors:

Please use email for personal issues and use the discussion board to ask general course-related questions. We receive a large quantity of email over the term but try to respond by the end of the next day. However, it may take longer, especially on weekends and near due dates. Always send email from your official UTORmail email address and begin email subject lines with "B63" lest your message accidentally be filed as spam.

Online resources:

Course information, lecture notes, tutorial material, etc. will be posted on the course website. It is your responsibility to visit it frequently. All course announcements will be posted on the discussion board, which is required reading for the course. You are encouraged to use the discussion board to discuss the course material, pose questions on homeworks, etc. The discussion board will be monitored by your instructor.

Course website:	https://www.utsc.utoronto.ca/~atafliovich/cscb63
Discussion board:	https://piazza.com/utoronto.ca/winter2024/cscb63

Prerequisites and Exclusions:

Exclusion: CSC263H, CSC265H
Prerequisites: CSCB36H3 and [CGPA of at least 3.5, or enrolment in a CSC Subject POSt, or enrolment in a non-CSC Subject POSt for which this specific course is a program requirement]. It is your responsibility to ensure you have all prerequisites for the course.

Evaluation:

We will have homework exercises (individual work), worth a total of 50%, a midterm (15%), and a final examination (35%). In addition, you must receive 40% or higher on the final exam to pass the course; otherwise your final course grade will be no higher than 47.

Lateness, illness, emergencies:

All homework deadlines are strict, no exceptions. All work will be submitted electronically. Having technical problems, poor Internet connection, etc. will not be accepted as reasons for late submissions. A 10% penalty will be applied for each day the work is late. No submissions will be accepted more than 5 days late. Saturdays, Sundays, and holidays count when calculating late days. In addition, according to the UofT policy, no work can be accepted after the last day of classes.

In case of illness or other exceptional circumstances, proper documentation must be provided. In this case a missed homework or a missed test may be canceled at the discretion of the instructor; marks for a missed homework/test will be distributed evenly over the other marked homeworks/tests.

Policy on collaboration:

You are encouraged to discuss ideas and approaches to solving problems posed on the homework assignments with other students. However, you are not permitted to take any notes during these discussions and during a 2-hour period following the discussion, nor are you permitted to consult other students' solutions. Searching for a solution on the Internet is a violation of this policy. Sharing work with other students is a violation of this policy. If challenged by either a tutor or the instructor, you must be able to reproduce and explain any solution you submit in an oral exam. Failure to observe this policy is an academic offence, carrying a penalty ranging from a zero on a homework or a test to suspension from the university.

Anonymous Feedback:

The website contains a form that will allow you to send feedback anonymously to the instructor. We welcome your comments. Please don't use this form anonymously if you are expecting a personal email response — We won't know where to send the reply!