People

<table>
<thead>
<tr>
<th>Instructor</th>
<th>M. Jason Hinek (contact info)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Teaching Assistant</td>
<td>Forrest</td>
</tr>
<tr>
<td>Teaching Assistants</td>
<td>Aaron, Chris, Connor, Jordan, Liheng, Qi, Gahen, [Bence]</td>
</tr>
<tr>
<td>Office Hours</td>
<td>tba</td>
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Course Information

<table>
<thead>
<tr>
<th>Section B</th>
<th>Wednesday &amp; Friday, 1:05-2:25pm, MC2000</th>
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<tbody>
<tr>
<td>Course Website</td>
<td>TBA</td>
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<tr>
<td>Official Discussion Group</td>
<td>Piazza</td>
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Calendar Description

Introduction to the design and implementation of abstract data types and to complexity analysis of data structures. Topics include: stacks, queues, lists, trees and graphs. Special attention is given to abstraction, interface specification and hierarchical design using an object-oriented programming language.

Prerequisites

One of COMP 1406, COMP 1006, SYSC 2004, with a minimum grade of C-.

Precludes additional credit for COMP 2002 (no longer offered), SYSC 2002 (no longer offered), SYSC 2100.

Note: Students who are granted equivalencies or transfer credits in lieu of the prerequisite course(s) are responsible for ensuring that they are comfortable with all prerequisite course content.

Textbooks

There is one required textbook for the course:
Pat Morin, Open Data Structures: An Introduction (in Java), AU Press, 2013. (Author’s page)

Printed and bound versions of the book are available in the bookstore (or online). The book is available for free in PDF (and source) form from the author’s website.

Evaluation

Your performance in this course is assessed using several components: assignments, two midterm exams and a final exam. Please note that in order to receive a passing grade in this course, you must obtain a passing grade in the exam portion of the course (weighted average of midterms and final). The weights for each component is given in the following table.
<table>
<thead>
<tr>
<th></th>
<th>Assignments</th>
<th>40</th>
<th>About 12 assignments (written and coding)</th>
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<tbody>
<tr>
<td>M</td>
<td>Midterm Tests</td>
<td>30</td>
<td>In-class <strong>Wed, Oct 17</strong> and <strong>Wed, Nov 14</strong></td>
</tr>
<tr>
<td>F</td>
<td>Final Exam</td>
<td>30</td>
<td>3 hour exam (scheduled by the university)</td>
</tr>
<tr>
<td></td>
<td>total</td>
<td>100</td>
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⚠️ **Note:** You must pass the weighted average of your midterm (M) and final exam (F) in order to pass the course. Your final grade will be determined using the following:

```plaintext
if (M+F >= 30) then
  final grade is minimum( A+M+F, 100 )

otherwise
  final grade is minimum( 100*(M+F)/60, A+M+F )
```

⚠️ **Note:** Each assignment will either be coding (in which you will submit **Java** source code to the testing server or cuLearn) or it will be theory (in which you will submit a typeset solution in PDF to cuLearn) or it will be a study assignment (handwritten and submitted in person at the start of midterms).

⚠️ **Note:** All coding assignments are graded based on **correctness** and **efficiency**. If your code does not compile, you will receive zero. If your code is not efficient, you will receive very little (likely zero) marks. **Correctness is necessary but not sufficient to ensure a good mark.**

**Additional Notes**

Including the time spent attending lectures, students can expect to spend at least ten (10) hours per week on this course. Students are responsible for all course materials. This includes lecture notes, readings from the textbook, extra problem sets if given, and all materials discussed in class and on any of the official discussion boards.

Questions pertaining to the marking of assignments should be sent to the teaching assistant(s) that completed the marking, and, unless the student wishes to share information of a personal or confidential nature, all questions should be asked on the official forum (Piazza) and not via email.

All materials created for this course (including, but not limited to, lecture notes, in-class examples, tutorial exercises, assignments, examinations, and posted solutions) remain the intellectual property of the instructors. These materials are intended for the personal and non-transferable use of students registered in the current offering of the course. Reposting, reproducing, or redistributing any course materials, in part or in whole, without the written consent of the instructor, is strictly prohibited.

**Collaboration Policy**

⚠️ You may collaborate at the conceptual/problem-solving level for assignments, but you must write your own solutions and code.

**Note:** Posting assignment solutions on discussion boards before the due date and time is strictly prohibited.

**Note:** Asking questions about assignments on discussion boards other than the course discussion group is strictly prohibited.

**Note:** We will be monitoring for plagiarism of code.
Undergraduate Academic Advisor

The Undergraduate Advisor for the School of Computer Science is available in Room 5302C HP, by telephone at 520-2600, ext. 4364 or by email at undergraduate_advisor@scs.carleton.ca.

The undergraduate advisor can assist with information about prerequisites and preclusions, course substitutions/equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisor will also refer students to appropriate resources such as the Science Student Success Centre, Learning Support Services and the Writing Tutorial Services.

University Policies

Full academic regulations are found in the University’s calendar (link). Some excerpts are below.

**Academic Integrity**

Every student should be familiar with the Carleton University student academic integrity policy. A student found in violation of academic integrity standards may be awarded penalties which range from a reprimand to receiving a grade of F in the course or even being expelled from the program or University. Some examples of offences are: plagiarism and unauthorized co-operation or collaboration. Information on this policy may be found in the Undergraduate Calendar.

Plagiarism is presenting, whether intentional or not, the ideas, expression of ideas or work of others as one’s own. Plagiarism includes reproducing or paraphrasing portions of someone else’s published or unpublished material, regardless of the source, and presenting these as one’s own without proper citation or reference to the original source.

In cases where an investigation determines that a violation of the Academic Integrity Policy has occurred, sanctions may be applied by the Faculty Dean, the Provost and Vice President (Academic), or by Senate Executive.

Sanctions may include but are not limited to completion of a remediation process, a written reprimand, assignment of a failing grade, withdrawal from a course, suspension from a program, suspension or expulsion from the university.

**Students with Disabilities**

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision.

If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable).

After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable) at http://www2.carleton.ca/PMC/new-and-current-students/dates-and-deadlines/

**Religious Obligations**

Carleton University accommodates students who, due to religious obligation, must miss an examina-
tion, test, assignment deadline, laboratory, or other compulsory event. The University has a Senate-approved policy on religious accommodation that forms part of its Human Rights Policy, available at: [http://www2.carleton.ca/equity/](http://www2.carleton.ca/equity/)

Accommodation will be worked out directly and on an individual basis between the student and the instructor(s) involved. Students should make a formal written request to the instructor(s) for alternative dates and/or means of satisfying requirements. Such requests should be made during the first two weeks of any given academic term, or as soon as possible after a need for accommodation is known to exist, but in no case later than the penultimate week of classes in that term.

**Pregnancy Obligation**
Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website: [http://www2.carleton.ca/equity/](http://www2.carleton.ca/equity/)

**Medical Certificate**
The following is a link to the official medical certificate accepted by Carleton University for the deferral of final examinations or assignments in undergraduate courses. To access the form, please go to [http://www.carleton.ca/registrar/forms/](http://www.carleton.ca/registrar/forms/)