COURSE CALENDAR DESCRIPTION

A study of fundamental data structures and their use in the efficient implementation of algorithms. Topics include abstract data types, lists, stacks, queues, trees and graphs. Prerequisites: General Prerequisite: LE/EECS 1030 3.00 or LE/EECS 2030 3.00; LE/EECS 1028 3.00 OR SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00. Course credit exclusion: LE/CSE 2011 3.00, AK/AS/SC/CSE 2011 3.00, AK/AS/SC/COSC 2011 3.00. (NOTE: The General Prerequisite is a cumulative GPA of 4.50 or better over all major EECS courses. EECS courses with the second digit “5” are not major courses.)

INSTRUCTOR(S)

<table>
<thead>
<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
<th>Contact Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mirzaian, Andranik</td>
<td>Sec. A / LECT / F</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SPECIAL FEATURES

** More information on this course is available on the Course Wiki Page: https://wiki.eecs.yorku.ca/course_archive/2017-18/F/2011

Learning Outcomes:

By the end of the course, students will be familiar with the more prevalent data structure patterns, and will be able to design and implement variations on these patterns, and then use them as clients to solve a broad range of real-world problems.

Graded Assessment

The weight distribution of the course components is as follows:

- 30% - 4 Assignments, all equal weight
- 25% - Midterm Test -closed book
- 45% - Final Exam -closed book

COURSE TEXTBOOK


The following resources are useful for this course and are mostly accessible on-line:

- Oracle Technology Network for Java Developers (online access)
- JDK 7 Download
- Java API
- Java Tutorials
- Eclipse IDE for Java Developers (online access)
• Eclipse Tutorial — Vogel
• "Eclipse IDE Pocket Guide" — E. Burnette, O'Reilly Media, 2005.
• "Introduction to Programming in Java: An Interdisciplinary Approach" — R. Sedgewick & K. Wayne, Addison-Wesley, 2008. (online access)
• "EECS 1030: Course Notes" — H. Roumani & F. van Breugel, 2010. (online access)
• Useful Mathematical Facts — [GTG] resource. (online access)
• AAW: Algorithmics Animation Workshop — A. Mirzaian's students. (online access)

ACADEMIC INTEGRITY LINKS
• Senate Policy on Academic Honesty - http://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/
• Academic Integrity - http://lassonde.yorku.ca/academic-integrity

STUDENT LINKS
• Student Rights and Responsibilities - http://oscr.students.uit.yorku.ca/student-conduct
• Religious Observance - https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs
• Academic Accommodation for Students with Disabilities - http://secretariat-policies.info.yorku.ca/policies/academic-accommodation-for-students-with-disabilities-policy/
• Counselling and Disability Services - http://cds.info.yorku.ca/

Many courses utilize Moodle, York University's course website system. If your course is using Moodle, click here to access it.

Moodle @ York University