Course Description (based on Faculty of Arts & Science 2013-2014 Calendar):
Standard algorithm design techniques: greedy strategies, dynamic programming, linear programming, network flows, approximation algorithms. Brief introduction to NP-completeness: polynomial time reductions, examples of various NP-complete problems, self-reducibility. Students will be expected to show good design principles and adequate skills at reasoning about the correctness and complexity of algorithms.
Prerequisite: CSC263H1/CSC265H1/CSC378H1; CGPA 3.0/enrolment in a CSC subject POST.
Exclusion: CSC375H1, CSC364H1.
Distribution Requirement Status: This is a Science course
Breadth Requirement: The Physical and Mathematical Universes (5)

Textbook:

References:
(ISBN: 978-02622033848)

Website:
Website: http://www.cs.toronto.edu/~milad/csc373
Forum: https://piazza.com/utoronto.ca/summer2013/csc373/home
You are responsible for reading all announcements on the course website and forum.

Contact:
Lectures: Tuesdays 6pm-8pm, Thursdays 6pm-7pm BA1180
Tutorials: Thursdays 7pm-8pm (see the course website for locations)
Office hours: TBA
Instructor’s email: milad AT cs DOT Toronto DOT edu

Email Policy:
Please post any question about the course material on Piazza. Use email just for personal matters.
Please send emails from your UTOR or CDF account and use a descriptive subject line and include the
course number and your full name. We usually answer questions in 2 business days, but it may take longer.

**Grading Scheme:**

<table>
<thead>
<tr>
<th>WORK</th>
<th>WORTH</th>
<th>DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1</td>
<td>10%</td>
<td>June 6</td>
</tr>
<tr>
<td>Assignment 2</td>
<td>10%</td>
<td>July 2</td>
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<tr>
<td>Assignment 3</td>
<td>10%</td>
<td>August 1</td>
</tr>
<tr>
<td>Midterm</td>
<td>25%</td>
<td>July 9</td>
</tr>
<tr>
<td>Final</td>
<td>45%</td>
<td>TBA</td>
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All assignments should be submitted electronically, using MarkUs, by 23:59 on their due date. There are 2 grace days in this course. For assignment 2, any submission after July 3, 23:59 will not be graded. For the midterm and final exams you are allowed to have one aid sheet (letter size), **handwritten** on both sides.

To pass this course you should earn at least 30% of the final exam. You will receive 20% for any problem that you leave entirely blank or state “I don’t know”.

**Outline:**

- Greedy Algorithms
- Dynamic Programming
- Network Flow
- Linear Programming
- NP-Completeness

**Remarking:**

The remarking requests should be received within 2 weeks of the date the assignment or test is returned.

For a remarking request, please submit a written explanation and include a description of possible errors or omissions by the marker. Note that your entire work may be remarked.

**Academic Offences:**

The work you submit must not contain someone else’s words or ideas. Please read [Guidelines for Avoiding Plagiarism](#) page by Francois Pitt and [Advice about academic offences](#) by Jim Clarke.