DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES
UNIVERSITY OF TORONTO MISSISSAUGA

CSC411H5F LEC0101
Machine Learning and Data Mining
Course Outline - Fall 2018

Class Location & Time       Wed, 03:00 PM - 05:00 PM IB 140
Instructor                  Anthony Bonner
Office Location             DH 3090
Office Hours                Weds 6-7pm
Telephone                   905-828-3813
E-mail Address              bonner [at] cs [dot] toronto [dot] edu
Course Web Site             http://www.cs.toronto.edu/~bonner/courses/2018f/csc411

Teaching Assistant          Hamed Heydari
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Course Description

Prerequisite: CSC207H5, CSC290H5, (MAT134Y5/MAT135Y5/MAT137Y5/MAT157Y5)/(MAT133Y5, MAT233H5), MAT223H5/MAT240H5; STA256H5
Exclusion: CSC411H1, CSCC11H3
Recommended: CSC338H5 (SCI)
Distribution Requirement: SCI

Students who lack a pre/co-requisite can be removed at any time unless they have received an explicit waiver from the department. The waiver form can be downloaded from here.

Textbooks and Other Materials
There is no required text, but we will recommend specific readings from Pattern Recognition and Machine Learning by Christopher Bishop (Springer).

Assessment and Deadlines

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Due Date</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment</td>
<td>Assignment 1</td>
<td>2018-10-15</td>
<td>15%</td>
</tr>
<tr>
<td>Assignment</td>
<td>Assignment 2</td>
<td>2018-11-12</td>
<td>15%</td>
</tr>
<tr>
<td>Assignment</td>
<td>Assignment 3</td>
<td>2018-12-05</td>
<td>15%</td>
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<tr>
<td>Term Test</td>
<td>Midterm test</td>
<td>2018-10-24</td>
<td>15%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Final Exam</td>
<td>TBA</td>
<td>40%</td>
</tr>
</tbody>
</table>

Total 100%

More Details for Assessment and Deadlines
No late assignments will be accepted.
Students must receive at least 40% on the final exam to pass the course.

The midterm test and final exam will follow the "I don't know" policy: if you leave a question (or part) blank and write "I don't know", you will receive 20% of the marks for that question (or part). Otherwise, if you get the answer wrong, you may receive 0 marks.

**Penalties for Lateness**

100%

**Procedures and Rules**

**Missed Term Work**

To request special consideration, bring supporting documentation to the instructor in person during office hours at least one week in advance.

In case of illness, bring a U of T medical certificate to the instructor within one week of the missed work. The certificate must specify the exact period during which you were unable to carry out your academic work.

A grade for missed assignments will be estimated from other assignment grades. A grade for a missed midterm will be estimated from the final exam grade.

**Missed Final Exam**

Students who cannot write a final examination due to illness or other serious causes must file an online petition within 72 hours of the missed examination. Original supporting documentation must also be submitted to the Office of the Registrar within 72 hours of the missed exam. Late petitions will NOT be considered. If illness is cited as the reason for a deferred exam request, a U of T Verification of Student Illness or Injury Form must show that you were examined and diagnosed at the time of illness and on the date of the exam, or by the day after at the latest. Students must also record their absence on ACORN on the day of the missed exam or by the day after at the latest. Upon approval of a deferred exam request, a non-refundable fee of $70 is required for each examination approved.

**Academic Integrity**

Honesty and fairness are fundamental to the University of Toronto’s mission. Plagiarism is a form of academic fraud and is treated very seriously. The work that you submit must be your own and cannot contain anyone else's work or ideas without proper attribution. You are expected to read the handout How not to plagiarize (http://www.writing.utoronto.ca/advice/using-sources/how-not-to-plagiarize) and to be familiar with the Code of behaviour on academic matters, which is linked from the UTM calendar under the link Codes and policies.

**Final Exam Information**

Duration: 2 hours
Aids Permitted: 1 page(s) of double-sided Letter (8-1/2 x 11) sheet

**Additional Information**

The "cheat sheet" for the final exam must contain no more than 12,000 characters total. If typed, it should use 12-point font or larger.

The tutorials may introduce new material not covered in the lectures or the text. On all work, 20% of the grade will be for quality of presentation, including the use of good English. Final grades may be adjusted up or down to conform with University of Toronto grading policies.

Last Date to drop course from Academic Record and GPA is November 8, 2018.