Teacher: Mehdi Molkaraie
Email: mehdi.molkaraie@utoronto.ca

Schedule:
Lectures will be offered online on Zoom until (at least) Sept 23.
After that, on Wednesdays from 18:00 to 21:00 at SF1105.
Office hours will be posted on Quercus.

Course Reference:

Evaluation for undergraduate students:

<table>
<thead>
<tr>
<th>Item</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests/Quizzes</td>
<td>2 × 30%</td>
<td></td>
</tr>
<tr>
<td>Homeworks</td>
<td>No credit</td>
<td>Will be posted on Quercus</td>
</tr>
<tr>
<td>The Final Assessment</td>
<td>40%</td>
<td>Covers all the material</td>
</tr>
</tbody>
</table>

Evaluation for graduate students:

<table>
<thead>
<tr>
<th>Item</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests/Quizzes</td>
<td>2 × 25%</td>
<td></td>
</tr>
<tr>
<td>Homeworks</td>
<td>No credit</td>
<td>Will be posted on Quercus</td>
</tr>
<tr>
<td>Research project</td>
<td>10%</td>
<td>One project: total credit 10%</td>
</tr>
<tr>
<td>The Final Assessment</td>
<td>40%</td>
<td>Covers all the material</td>
</tr>
</tbody>
</table>

Graduate students are required to do one research projects, which will be posted on Quercus one week after the semester break, and should be submitted by Dec 1st via email.

- **Exam Schedule:**

  Test/Quiz 1: Wednesday, October 13
  Test/Quiz 2: Wednesday, November 24

  **The Final Assessment:** Will be scheduled by the Faculty.

Details of the exams will be posted on Quercus.

The tests/quizzes will take place online. The final assessment will be an in-person exam scheduled by the Faculty of Arts and Science during the final assessment period (Dec 10–21).
• No collaboration with anyone else in (or outside) the course is permitted on the tests, quizzes, and the final assessment. During the tests, you can use/consult:
  – A non-programmable calculator
  – The lecture notes
  – The course reference
  – Your personal notes

• Policies:
  – Missed tests: 0% will be recorded for missed tests unless you request accommodation from your instructor as follows. You need to communicate your absence (and the reason for your absence) to your instructor via email in advance (i.e., before the tests) and declare your absence on ACORN. If missed for a legitimate reason, at most 1 test can be accommodated by shifting its weight to the final assessment. If more than one test is missed for legitimate reasons, however, an alternative assessment will be arranged at the instructors’ discretion, which may have a different format (e.g., oral exam).
  – Details regarding students interested in regrading will be announced on Quercus.

• Prerequisite:
  STA302H1/STA352Y1/STAC67H3/STA302H5 (MAT224H1/MAT247H1 recommended)

• Topics:
  – (Brief) Introduction to matrix algebra and random vectors,
  – Sample geometry and random sampling,
  – Multivariate normal distribution,
  – Multiple regression analysis,
  – Principle component analysis, and if time permits,
  – Factor analysis.

• Notice:
  Course videos and materials belong to the instructor, the University, and/or other source depending on the situation, and are protected by copyright. In this course, you are permitted to download session videos and materials for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor.

• Students with Disabilities or Accommodation Requirements:
  Students with diverse learning styles and needs are welcome in this course. If you have an acute or ongoing disability issue or accommodation need, you should register with Accessibility Services (AS) at the beginning of the academic year by visiting http://www.studentlife.utoronto.ca/as/new-registration. Without registration, you will not be able to verify your situation with your instructors, and instructors will not be advised about your accommodation needs. AS will assess your situation, develop an accommodation plan with you, and support you in requesting accommodation for your course work. Remember that the process of accommodation is private: AS will not share details of your needs or condition with any instructor, and your instructors will not reveal that you are registered with AS.
• **Academic Integrity:**

All students, faculty and staff are expected to follow the University’s guidelines and policies on academic integrity. For students, this means following the standards of academic honesty when writing assignments, collaborating with fellow students, and writing tests and exams. Ensure that the work you submit for grading represents your own honest efforts. Plagiarism—representing someone else’s work as your own or submitting work that you have previously submitted for marks in another class or program—is a serious offence that can result in sanctions. Speak to me or your TA for advice on anything that you find unclear. To learn more about how to cite and use source material appropriately and for other writing support, see the U of T writing support website at http://www.writing.utoronto.ca. Consult the Code of Behaviour on Academic Matters for a complete outline of the University’s policy and expectations. For more information, please see https://www.artsci.utoronto.ca/current/academic-advising-and-support/student-academic-integrity and http://academicintegrity.utoronto.ca