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research question, find the data to address the question, analyze the data using techniques covered in the course, and write-up your results in the style of a short scientific journal article. The evaluation of the final project includes a break-out room poster presentation on the final day of class. Specific details of the final project will be posted on the course website in September.

Here is the evaluation breakdown:

1.	Class Participation	5%
2.	Pre-class Assessments	10%
3.	4 Assignments	55%
4.	Final Project	30%

#### 12 Verification of Illness

A! (also known as a "doctor's note") is temporarily not required.!Students who are absent from academic participation for!any reason!(e.g., COVID, cold, flu and other illness or injury, family situation) and who require consideration for missed academic work should report their absence through the online absence declaration. The declaration is available on!<u>ACORN</u>!under the Profile and Settings menu.!Students should also advise their instructor of their absence. Visit!<u>COVID-19 Information for University of Toronto Students</u>!or <u>UTSC COVID-19 Absence Declaration</u> in <u>ACORN</u> for more information.

### 13 Late Assignments

I understand that sometimes "life happens" and an assignment might be submitted late due to illness or injury, a death in the family, or other sudden and unanticipated event. However, assignments submitted late will not be accepted without accompanying documentation (online absence declaration, see above). Late assignments without documentation will be deducted 10% for each 24 hour period late (weekends included).

Note that if you do not have appropriate documentation (as outlined above), pre-class assessments must be completed on time or you will receive a grade of zero for that pre-class assessment.

That said, I am happy to grant extensions on submitted work within reason; however, I appreciate at least 24 hours notification of a request for an extension.

#### 14 Academic Integrity

Academic integrity is fundamental to learning and achieving our course goals. The assignments in this course are designed to give you an opportunity to learn important skills and concepts by making honest attempts through your own thinking, writing, and hard work.

I am strongly committed to assigning grades based on my students' honest efforts to demonstrate learning in this course. Academic dishonesty in any form will not be tolerated in my classes. All academic work in this course must adhere to the <u>Code of Behavior on Academic Matters</u>.

#### 15 Accessibility

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services as soon as possible.

AccessAbility Services staff are available to assess specific needs, provide referrals and arrange appropriate accommodations. To register with AccessAbility Services, begin the registration process

## 21 Tentative Schedule

Some of the topics may have very technical sounding titles, but don't be intimidated. Our focus in this course is on applying these statistical tools, rather than deriving them from first principals.

# \*\*All Assignments are due on Thursdays\*\*

Date	Торіс
Sept. 14	<ol> <li>Introduction to Statistics in Climate and Geophysical Sciences</li> <li>1.1. Introduction</li> <li>1.2. Descriptive Statistics</li> </ol>
Sept. 21	<ol> <li>Probability &amp; Hypothesis Testing</li> <li>2.1. Probability</li> <li>2.2. Statistical decision making; hypothesis testing</li> <li>2.3. Monte Carlo techniques; bootstrap; jackknife</li> </ol>

## Words of Advice

- Helen Hayes

The CCIA MEnvSc program is fun, interesting and tough. It is training you to become a climate change specialist. At your future place of work, you may be climate change expert. That may seem a bit daunting, but keep in mind that this course and your other courses are designed to help your achieve that level of expertise. However, your course instructors need your help to get you there - you need to play an active role. Ask questions of me, your fellow students and most of all yourself. Mastery of course material requires you to fully engage in the learning process.