

***Class Number: 2080 Delivery Method In Person***

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**COURSE TIMES + LOCATION:**

We 1:30 PM – 2:20 PM  
REMOTE LEARNING, Burnaby

Fr 12:30 PM – 2:20 PM  
REMOTE LEARNING, Burnaby

**EXAM TIMES + LOCATION:**

Aug 13, 2021  
8:30 AM – 11:30 AM  
REMOTE LEARNING, Burnaby

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**INSTRUCTOR:**

Tim Swartz  
[tswartz@sfu.ca](mailto:tswartz@sfu.ca)  
1 778 782-4579

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**PREREQUISITES:**

Recommended: 30 units.

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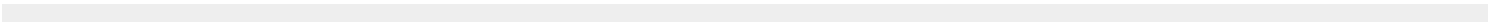
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4. **Experiments and Observational Studies (Chapters 8 and 9 of text)** The design of experiments is introduced with an emphasis on randomization, treatments, subjects, factors, pairing and controls. Comparisons are made with observational studies.

5. **Data Ethics (Chapters 10)**

6. **Inferential Statistics (Chapters 15, 16, 17, 18)** Concepts related to distributions of sample means, confidence intervals, confidence level, width, interpretation, the effect of sample size) are discussed. Also basic concepts related to the testing of hypotheses (e.g. hypotheses, p-values, statistical significance) are presented.

7. **Biological Distribution (Chapters 19-21)** Also present, the effect of factors, pairings, interactions, etc. (Chapters 19, 20, 21)



**REQUIREMENTS:**

Student participation in this course will require computer equipment and a reliable internet connection. You may be requested to provide audio and/or video during certain instructional activities, that may include tests and examinations, though exceptions will be accommodated. If you request such an exception for personal reasons, you must do so in writing to the course instructor by the end of the first week.

## Materials

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**MATERIALS + SUPPLIES:**

To be able to complete the online class successfully, at a minimum you will need a personal computer, access to the internet, a webcam, and a microphone to take online exams.

Zoom will be used to proctor the exams

**REQUIRED READING:**

**Required Textbook:**

(Sapling Plus is recommended but not required) by D. S. Moore, W. I. Notz, and M. A. Fligner. Publisher: W.H. Freeman Publishers

Loose leaf ISBN: 9781319188658 (available at [SU Bookstore](#))  
Other options are available through the [MacMillan Learning website](#)

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**DEPARTMENT UNDERGRADUATE NOTES:**

**Students With Disabilities:**

Students requiring accommodations as a result of disability must contact the Centre for Accessible Learning 778-782-3112 or [csd@wisc.edu](mailto:csd@wisc.edu)

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components that will be “live” (synchronous) vs. at your own pace (asynchronous). Enrollment acknowledges that remote study may entail different modes of learning; interaction with your instructor; and ways of getting feedback on your work than may be the case for in-person classes. To ensure you can access all course materials, we recommend you have access to a computer with a microphone and camera, and the internet. In some cases your instructor may use Zoom or other means requiring a camera and microphone to invigilate exams. If proctoring software will be used, this will be confirmed in the first week of class.

Students with hidden or visible disabilities who believe they may need class or exam accommodations, including in the current context of remote learning are encouraged to register with the [SFU Centre for Accessible Learning](#) ([caladmin@sfu.ca](mailto:caladmin@sfu.ca) or 778-782-3112).