# Dr. Aaron Childs

## Stats 1CC3 Course Outline

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# Course Information

## Instructor

Dr. Aaron Childs (office BSB-113)
Office Hours: Tuesday 9:30-10:20, Wednesday 2:30-3:20, Friday 9:30-10:20
Extension: 23426
email: childsa@mcmaster.ca

## Teaching Assistants

## Lectures

- Tuesdays and Thursdays at 11:30 in KTH/B135

# Labs

- Lab 1 - Mondays 2:30-4:20
  Lab 2 - Tuesdays 2:30-4:20
  Lab 3 - Thursdays 9:30-11:20
  Lab 4 - Fridays 9:30-11:20
- Check your timetable to see which lab time to go to
- All labs are in BS/244
- Labs will start on Monday, September 13

# Textbook

"Introductory Statistics, Fifth Edition by Neil A. Weiss. Published by Addison-Wesley, 1999.

# Software

Minitab for Windows, Release 12

# Material to be Covered

- Organizing Data (Chapter 2).
- Descriptive Measures (Chapter 3).
- Probability Concepts (Chapter 4).
- Discrete Random Variables (Chapter 5).
- The Normal Distribution (Chapter 6).
- The Sampling Distribution of the Mean (Chapter 7).
- Confidence Intervals for One Population Mean (Chapter 8).
- Hypothesis Tests for One Population Mean (Chapter 9).

# Homework Assignments

- There will be six assignments.
- On each assignment there will be regular problems, and computer problems.
- There should be enough time during the computer labs to complete all of the computer component of the assignments.
- Make sure to write your name (clearly!), your student number and your tutorial number on each assignment.
- You are required to write well-organized and readable solutions.
- For due dates and times refer to the calendar or the assignment page.
- After your assignments are marked they will be returned to you in the labs, approximately one week after the due date.

# Library

Copies of solutions to assignments and tests will be available at the reserve desk in Thode Library. There is also a copy of the textbook on reserve.

# Tests

- There will be two one-hour tests.
- Details (e.g., material the test will cover, exam locations, etc.) will be given in class.
- McMaster standard calculator Casio fx-991 is allowed.
- For test dates and times, refer to the calendar.
- It is essential that you bring your McMaster ID card to both tests.
- All necessary tables will be provided with the test paper.

## Final Examination

- As scheduled by the Registrar.
- Details (e.g., material the final exam will cover, final examination locations, etc.) will be given in class.
- McMaster standard calculator Casio fx-991 is allowed.
- It is essential that you bring your McMaster ID card to the final exam.
- Some formulas and all necessary tables will be provided with the exam paper.

## Course Evaluation

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|---|---|
| Homework | 20% |
| Test #1 | 20% |
| Test #2 | 20% |
| Final Exam | 40% |

## In case of Difficulty/Problems

- Contact your instructor or your T.A. as soon as possible. Failing that, contact the Associate Dean's Office in GS-116.
- If you have concerns about preparing for tests and examinations, improving your study habits, giving class presentations, or mastering English as a second language, the Centre for Student Development can help.

## Senate Policy Statements

- Your attention is drawn to the following documents:
  Statement on Academic Ethics
  Senate Resolutions on Academic Dishonesty
- Any student who infringes one of these resolutions will be treated according to the published policy.

# Objectives of the Course

- To learn how to model and quantify variability in observed data.
- To learn now to draw inferences from data subject to variability.
- To learn how to use Minitab for Windows.
- To provide students with the basic concepts of probability.
- To teach students how to model variability in a variety of applied problems.
- To introduce students to the basic statistical methods to draw inferences from observed data.
- To apply statistical methods to analyze different types of data.

# Calendar

**Thursday September 9:** Classes Start.
**Monday, September 20:** Labs start.

**BLOCK 1:** September 9-21 - **Sections:** Chapters 2 and 3
Assignment #1 - Due Date: 3:00 PM on Friday September 24


**BLOCK 2:** September 23 - October 5 - **Sections:** Chapter 4
Assignment #2 - Due Date: 3:00 PM on Friday October 8

**Midterm #1:** Wednesday October 20, 6:30-7:30 PM.

**BLOCK 3:** October 7-19 - **Sections:** Chapter 5
Assignment #3 - Due Date: 12:00 Noon on Tuesday October 26


**BLOCK 4:** October 21 - November 2 - **Sections:** Chapter 6
Assignment #4 - Due Date: 3:00 PM on Friday November 5

**Midterm #2:** Wednesday November 17, 6:30-8:00 PM.

**BLOCK 5:** November 4-16 - **Sections:** Chapters 7 and 8
Assignment #5 - Due Date: 12:00 Noon on Monday November 22


**BLOCK 6:** November 18 - November 30 - **Sections:** Chapter 9
Assignment #6 - Due Date: 3:00 PM on Friday December 3

**Final Exam:** To be Announced

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