# ANTHROP 3BA3 SPECIAL TOPICS: STATISTICS FOR BIOLOGICAL ANTHROPOLOGY Winter 2021

## **Course Contacts**

**Instructor:** Dr. L. Elizabeth Doyle **Office Hours:** By appointment, online

**Email:** doylel6@mcmaster.ca **Lecture:** Mondays, 11:30AM - 2:20PM Eastern - Virtual Classroom

**Office:** Office hours will be specified on A2L under Course Overview

**Email Contact**: Emails to the instructor <u>must come from your McMaster email</u> <u>address and include ANTHROP 3BA3</u> in the <u>subject line</u>. (Otherwise they are likely to get lost!)

## **Contents**

Course Contacts	1	
Contents	1	
Course Description	4	
Course Objectives	4	
Required Materials and Texts	4	
Class Format & Instructor Availability	4	
Teaching Assistants and Tutorials	4	
Course Evaluation – Overview	5	
Course Evaluation – Details		
Email and Tech Support Contact		
Weekly Course Schedule and Required Readings	8	
Course Policies	11	
Assignment Submissions	11	
Late Submissions	11	

	Absences, Missed Work, Illness	11	
	Assignment Reappraisal	12	
	Grades	12	
	Avenue to Learn & Lecture Recording	13	
	Turnitin.com	14	
University Policies 15			
	Academic Integrity Statement	15	
	Academic Accommodation of Students with Disabilities	15	
	Religious, Indigenous and Spiritual Observances (RISO)	15	
	Faculty of Social Sciences E-mail Communication Policy	16	
	Privacy Protection	16	
	Course Modification	16	

## **Course Description**

From pandemics to public policy, harm reduction to human geography, the ability to comprehend and work with data is rapidly becoming a key skill for professional and personal life in the twenty-first century. For social scientists in particular, being able to interpret, use, and critique quantitative information will be a valuable addition to your professional tool kit. 3BA3 Special Topics will be a friendly and practical introduction to statistics for anthropology students with a minimal mathematics background.

This course is designed to prepare students to analyze and interpret quantitative data with R, a statistical environment that is growing in popularity in many research fields, including biological anthropology. We will prioritize learning to apply and interpret the most common descriptive and inferential statistics used by anthropologists, with additional emphasis on best practices for collecting and working with data. Skills learned in this course can be applied to analyzing either quantitative or qualitative data.

#### What the course involves

This is a practical course. Over the term we will cover the conceptual theory and practical application of quantitative methods with a focus on: formulating research questions that can be answered with quantitative data; identifying the appropriate methods to address those questions; and managing our data to facilitate good quality analysis.

#### Do I have to be good at math?

This course does not require advanced knowledge of mathematics. We will cover the arithmetic basis of commonly used statistics, with a focus on understanding which methods to use for what purpose. We will allow *R* to do the "real" mathematics.

#### What is R

*R* is a coding language and open-source processing environment designed specifically for statistics. It features a wide range of functions, including mapping and data visualization.

We will perform all work with *RStudio*, a free, user-friendly interface for the *R* statistical analysis environment.

Due to the delayed start of classes provided by the University, some details and deadlines regarding course content and assessments in the published course outline may be changed. Please check Avenue to Learn for the most up-to-date information for this course. The course outline on Avenue to Learn will supersede previously published outlines until published course outlines are updated.

## **Course Objectives**

On completing this course, students will be able to:

- Understand core concepts of probability, error, and hypothesis testing
- Critically assess appropriate research designs and statistical methods to address anthropological questions

- Apply best practices for managing and manipulating raw data
- Explore and apply data with visual and quantitative descriptive methods
- Compute and interpret common inferential statistics used in bioanthropology
- Report results in written formats

## **Required Materials and Texts**

**Required equipment**: personal or University-issue computer

#### **Required software** (free):

R: https://www.r-project.org/

R Studio. Available in desktop and Cloud versions:

https://rstudio.com/products/rstudio/#rstudio-desktop; https://rstudio.cloud/.

#### Required text

Madrigal, L. (2012). *Statistics for Anthropology*. Cambridge: Cambridge University Press. doi:10.1017/CBO9781139022699 \**E-version available from McMaster Library* 

#### Additional required readings (to be posted to course website):

Coe, Robert. 2002. "It's the Effect Size, Stupid: What Effect Size Is and Why It Is Important." Conference paper presented at the Annual Conference of the British Educational Research Association, University of Exeter, England, September 12. Accessed 2020-08-16, http://www.leeds.ac.uk/educol/documents/00002182.htm

### Suggested Readings:

Bland, J.M. and Altman, D.G., 2000. The odds ratio. *British Medical Journal*, 320(7247), p.1468.

Broman, K.W., & Woo, Kara H. 2018. Data Organization in Spreadsheets. *The American Statistician* 72(1): 2–10. <a href="https://doi.org/10.1080/00031305.2017.1375989">https://doi.org/10.1080/00031305.2017.1375989</a>.

Cohen, H.W., 2011. P values: use and misuse in medical literature. *American Journal of Hypertension*, 24(1), pp.18-23.

Cowgill, G. L. 2015. Some Things I Hope You Will Find Useful Even if Statistics Isn't Your Thing. *Annu. Rev. Anthropol.* 44, 1–14

Government of Canada Panel on Research Ethics. 2018. Chapter 1. *Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans*. Available at <a href="https://ethics.gc.ca/eng/policy-politique">https://ethics.gc.ca/eng/policy-politique</a> tcps2-eptc2 2018.html

Quinn, G., & Keough, M. (2002). Chapter 7: Design and Power Analysis. In: *Experimental Design and Data Analysis for Biologists*. Cambridge: Cambridge University Press. doi:10.1017/CBO9780511806384

Spake, Laure, and Hugo F.V. Cardoso 2018. Are We Using the Appropriate Reference Samples to Develop Juvenile Age Estimation Methods Based on Bone Size? An Exploration of Growth Differences between Average Children and Those Who Become Victims of Homicide. *Forensic Science International* 282: 1–12.

http://www.sciencedirect.com/science/article/pii/S0379073817304528

## Class Format & Instructor Availability Lectures

This course uses a flipped format: lectures will be pre-recorded and class time will be used for practical demonstrations and assignment work. It is expected that you will watch the week's lectures and do the readings before attending live sessions.

All sessions will be recorded for asynchronous access; however, it is strongly recommended that you do your best to take advantage of opportunities to connect with your professor and classmates.

Synchronous sessions will be recorded on MS Teams with closed captioning\*, and will be available in the following locations for asynchronous access with an automatically generated transcript:

- Pre-recorded lectures: on our class's MacVideo (linked on A2L under the Lectures module)
- Practical sessions: on MS Stream channel (linked on A2L under the Practicals module)
- Embedded on A2L (under the Lectures module)

#### **Practical Laboratories**

A portion of scheduled lecture time will be dedicated to practical demonstrations and practical labs, which will also be held on **MS Teams or Zoom**. All laboratory work can be done asynchronously; live sessions will be available for real-time assistance in working on your analyses.

## Accessibility

- MS Teams provides live automatic captioning.
- MS Stream also provides an automatically generated transcript.
- Additional accommodations will be arranged as needed with SAS.
- You can also individually arrange live transcription of lab and lecture meetings by setting up a free account with Otter.ai

<sup>\*</sup>Alternative videoconferencing platforms, such as Zoom, may be used if appropriate to the class's needs.

#### **Instructor Contact**

Dr Doyle is available through the following avenues:

- Via the course's MS Teams channel or direct chat. Tag me using @username for direct notification.
- Via email (please see rules for email contact, below these will be adhered to strictly).
- Individual video conference: by appointment. Please use email / Calendly to request a time.

## <u>Course Evaluation – Overview</u>

- 1. Research Design Case Study Proposal (10%), due 17:00 Eastern, Friday Feb 12
- 2. Lab Assignment 1 (20%), due 17:00, Friday Feb 26
- 3. Lab Assignment 2 (25%), due 17:00 Eastern, Friday April 9
- 4. Research Method Case Study (20%), due by 17:00 Eastern, April 12
- 5. Take-Home final exam (25%), administered during exam period

## **Course Evaluation – Details**

Lab Assignment 1 (20%): Exploring Data and Comparing Central Tendencies. Due due 17:00, Friday Feb 26. Since the aim of this class is to give students a thorough practical introduction to quantitative analysis, there is a significant applied component. This work is divided into two graded laboratory assignments, encompassing four major modules (Exploring Data, Comparing Central Tendencies, Analyzing Counts, and Estimating Linear Relationships). All work will be introduced during class time and completed independently.

Lab Assignment 2 (25%): Analyzing Counts and Estimating Linear Relationships. . Due 17:00 Eastern, Friday April 9. The second lab is more heavily weighted because it involves slightly more work. You will be given a dataset and guidance in analyzing it using common methods for analyzing bivariate relationships in nominal data (counts) and continuous data (ratio or interval scale).

Research Project: Research Method Case Study: Proposal (10%, due by 17:00 Eastern, Friday Feb 12) and Final Paper (20%, due by 17:00 Eastern, April 12). Students will select a topic of interest and explore the research designs and quantitative methods normally used for that topic in a 15-20-page paper. The term paper should consider: sampling methods and factors affecting sample quality; measurement method, validity, and reliability (e.g. intra- and inter-observer error; sensitivity and specificity); descriptive statistics & presentation; common inferential statistics; statistical power & factors affecting it; potential sources of error & bias; how other researchers have analyzed similar datasets. The aim of this project is for each student to deeply explore how contemporary scholars approach a given type of data, what kinds of constraints they face, and how they deal with them. At the end of this project, each student should be prepared to design and implement

a statistical analysis in the context of an original research project. This term project will be excellent preparation for students who are considering taking an advanced topical course such as 4R03 Advanced Skeletal Biology and Bioarchaeology, or even for graduate school.

**This assignment is scaffolded**: Students will select their article and submit a proposal early in the term, and will receive feedback on their choice from Dr Doyle. Citations and bibliography must use Chicago (Author-Date) style.

**Final Exam (25%).** The class will finish with a theory-focussed take-home final exam consisting of short answer and essay questions. It will be administered during the Registrar's Office exam period.

## **Email and Tech Support Contact**

## **Dr Doyle's Email Commitment**

I will do my best to provide a timely response to email communications. During the week, I will generally get back to you within 48h. Emails sent during weekends or after 5pm will generally not receive a response until at least the next business day.

## **Tech Support and Other Matters**

Learning online can be challenging - plan ahead for technical issues! You may be learning new technologies or working with technological barriers like a spotty internet connection. This course has been designed with that in mind: Dr Doyle has worked to streamline the technology as much as possible, and to design assessments with the possibility of poor Internet connections in mind. Although Avenue 2 Learn is a robust platform with a dedicated support team, it is normal to encounter the occasional technological problem. This is an opportunity for you to practice the valuable professional skill of troubleshooting!

#### **What To Do if You Encounter Technical Problems**

Do not panic! Follow the below steps to troubleshoot:

- 1. **Document the problem:** ESPECIALLY if you are attempting to submit an assignment on deadline. Describe it in detail and take screenshots that include your desktop clock as a time-stamp.
- Check the Avenue To Learn Support Wiki: https://wiki.mcmaster.ca/avenue/
- 3. Check the manufacturer's help documents! https://documentation.brightspace.com/EN/learners/learners.htm A2L is

McMaster's local version of Brightspace Desire2Learn (D2L), therefore many of its functions and quirks will be the same.

- 4. Contact the Avenue2Learn help desk directly (during business hours): <a href="https://avenue.mcmaster.ca/support.html">https://avenue.mcmaster.ca/support.html</a>
- 5. If all else has failed ... proceed to contact your professor or TA!

## **Weekly Course Schedule and Required Readings**

## Week 1: (2021-01-11 to 15)

TOPIC: Orientation to the Course and Baseline Knowledge Assessment

(ungraded)

PRACTICAL: Downloading and installing R and RStudio

READINGS: None

Note: this week will be devoted to meeting your classmates and professor, and getting oriented to the course platform, activities, and expectations. It is expected that you will participate if at all possible. Note that both synchronous and asynchronous options are available.

## Week 2 (2021-01-18 to 22)

TOPIC: Exploring Data - Samples and Populations

PRACTICAL: Using spreadsheets to calculate descriptive statistics

READINGS: Madrigal 2012. Chapter 2. Computing Descriptive Statistics;

Note: Jan 19th is Add/Drop Deadline

## Week 3 (2021-01-25 to 29)

TOPIC: Probability as the basis for inferential statistics AND

Hypothesis-Testing

PRACTICAL: Getting Started with Descriptive Statistics with R in RStudio

READINGS: Madrigal 2012. Chapter 3: Probability and Statistics; Chapter 4.

Hypothesis testing and estimation

## Week 4 (2021-02-01 to 5)

TOPIC: Comparing central tendencies; Expectations for Term Project

PRACTICAL: *T* tests and nonparametric alternatives

READINGS: Madrigal 2012. Chapter 5. The difference between two means

#### Week 5 (2021-02-08 to 12)

TOPIC: Analyses of Variance (ANOVA)

PRACTICAL: ANOVA in R

READINGS: Madrigal 2012. Chapter 6. ANOVA

DEADLINE: Research Method Case Study: Proposal (10%, due by 17:00

Eastern, Friday Feb 12)

## Week 6 (2021-02-15 to 19)

READING WEEK - No Class.

## Week 7 (2021-02-22 to 26)

TOPIC: Practical Class: Work on Lab 1

DEADLINE: Lab Assignment 1 (20%): Exploring Data and Comparing Central

Tendencies. Due 17:00, Friday Feb 26.

## Week 8 (2021-03-01 to 05)

TOPIC: Analysis of Counts Data

PRACTICAL: Begin Lab 2 - Analyzing Counts & Linear Relationships

READING: Madrigal 2012. Chapter 8. Analysis of Frequencies

Suggested reading: Bland & Altman 2000. The Odds Ratio

## Week 9 (2021-03-08 to 12)

TOPIC: Practical Class: Work on Lab 2

READINGS: None

## Week 10 (2021-03-15 to 19)

TOPIC: Linear Relationships: Correlation

READINGS: Madrigal 2012. Chapter 9. Correlation

Notes: Mar 19 (Fri) is Last Day To Withdraw From Class without penalty

## Week 11 (2021-03-22 to 26)

TOPIC: Linear Relationships: Regression (1)

READINGS: Madrigal 2012. Chapter 10. Regression

## Week 12 (2021-03-29 to 2021-04-02)

TOPIC: Linear Relationships: Regression (2), quantifying predictive error

PRACTICAL: Work on Lab 2

READINGS: Madrigal 2012. Chapter 10. Regression

## Week 13 (2021-04-05 to 09)

TOPIC: NO CLASS (Stat Holiday on Monday)

**READINGS: None** 

Notes: pre-final exam restriction

DEADLINE: Lab Assignment 2 (25%): Analyzing Counts and Estimating

Linear Relationships. . Due 17:00 Eastern, Friday April 9.

## Week 14 (2021-04-12 to 14 \* last class on Wednesday)

TOPIC: Considering Sources of Interpretive Error: Effect Size and Validity

READINGS: Coe 2002

Suggested readings: Spake & Cardoso 2018

DEADLINE: Final Term Paper (20%) due by 17:00 Eastern, April 12

Take-home Exam: Administered during the Registrar's Office exam period:

Thursday April 15 to Friday April 30

#### **Course Policies**

#### **Assignment Submissions**

It is expected that all assignments will be submitted as PDF files to that assignment's dropbox on Avenue to Learn (A2L) **Assignments submitted by e-mail will not be accepted.** 

If you run into technical problems when submitting an assignment or exam, take a screenshot that shows your submission screen and desktop clock as a timestamp! Then visit the Avenue to Learn Support page for help.

#### **Late Submissions**

For winter 2021 there will be a 48h grace period before late penalties are applied for <u>written assignments only</u> (does not apply to tests or exams). This means that you can submit your assignment up to 48h after a deadline, without losing points.

A late penalty of 2 points (2% of the total course grade) will be deducted from an assignment's total per 24-hour period (or part thereof late) for assignments, up to 72 hours (including weekends). After 72 hours, a grade of 0 is allocated.

### **Absences, Missed Work, Illness**

It is your responsibility to complete all work by the deadline at which it is to be handed in. Extensions will not be available without one of: a McMaster Student Absence Forms (MSAF) if applicable; ORwritten certification approved by your Faculty office. If you experience an interruption to your attendance that warrants relief, please try to alert Dr Doyle as soon as possible to arrange make-up work.

Please note that policies concerning the use of MSAFs (McMaster Student Absence Forms) have changed (see <a href="https://www.mcmaster.ca/msaf/">https://www.mcmaster.ca/msaf/</a>).

#### **Note that MSAF's cannot be used for:**

- Any coursework worth 25% or more.
- Absences lasting longer than 3 days

If you require relief for an assessment worth 25%+ or for longer than 3 days, you must contact your faculty office, with documentation, if you wish to apply for a faculty-issued MSAF.

Please note - all deferred and makeup exams will be in essay format.

## **Assignment Reappraisal**

Your assignments are marked by TAs using a grading rubric provided by the instructor, which is based on the criteria outlined in each assignment guide.

**Grades are not awarded based on demonstrated effort, but on demonstrated achievement**. It is normal for a student's average grade in university classes to be somewhat lower than their average grade in high school.

If you disagree with a grade that you have received, please follow the below steps:

- 1. **Wait 24h after viewing your mark.** Re-read your assignment with a cooler head and consider the rubric, your TA's feedback, and grading criteria outlined in the assignment guide.
- 2. **Seek more feedback**: Have an appointment with Dr Doyle to discuss your grade and seek clarification if needed.
- 3. **Formally request a re-appraisal:** Write a 300-word (max) statement, explaining why you believe the initial assessment was mistaken, and submit it to Dr Doyle along with the original assignment.

Please note that requesting a re-appraisal does not guarantee that your mark will go up. Most re-appraisals do not produce a different mark than the original assessment, and some produce a lower mark.

If, after reappraisal by the instructor, you still disagree with an assessment, you may apply for a **re-read** via the McMaster Secretariat website: https://registrar.mcmaster.ca/re-read/

#### Grades

Marking rubrics and final grades will be based on the McMaster University grading scale:

MARK	GRADE	Qualitative Scale (Unofficial)
90-100	A+	In general, quantitative & categorical grade ranges reflect the following qualitative scale: 80% to 100% (A- to A+): Exceptional performance: strong evidence of original thinking; good organization; capacity to analyze and synthesize; superior grasp of subject matter
85-90	Α	
80-84	A-	
77-79	B+	

73-76	В	with sound critical evaluations; evidence of extensive knowledge base.
70-72	B-	
67-69	C+	68% to 79% (B- to B+): Competent performance: evidence of grasp of subject matter; some evidence of critical capacity
63-66	С	and analytic ability; reasonable understanding of relevant issues; evidence of familiarity with the literature.
60-62	C-	50% to 67% (D to C+): Adequate performance:
57-59	D+	understanding of the subject matter; ability to devel solutions to simple problems in the material; acceptable by
53-56	D	uninspired work, not seriously faulty but lacking style and
50-52	D-	vigour.
0-49	F	00% to 49% (F): Inadequate performance: little or no evidence of understanding of the subject matter; weakness in critical and analytic skills; limited or irrelevant use of the literature.

## **Avenue to Learn & Lecture Recording**

In this course we will be using Avenue to Learn. Some real-time lecture sessions may be recorded. Attendees will be warned prior to recording.

Students should be aware that, when they access the electronic components of this course, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

#### Turnitin.com

In this course we will be using a web-based service (Turnitin.com) to reveal plagiarism in written work. Students will be expected to submit their work electronically to Turnitin.com and in hard copy so that it can be checked for academic dishonesty. Students who do not wish to submit their work to Turnitin.com must still submit a copy to the instructor. No penalty will be assigned to a student who does not submit work to Turnitin.com. All submitted work is subject to normal verification that standards of academic integrity have been upheld (e.g., on-line search, etc.). To see the Turnitin.com Policy, please visit: www.mcmaster.ca/academicintegrity.

## **University Policies**

### **Academic Integrity Statement**

You are expected to exhibit honesty and use ethical behavior in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity.

Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behavior can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at <a href="https://www.mcmaster.ca/academicintegrity">www.mcmaster.ca/academicintegrity</a>.

The following illustrates only three forms of academic dishonesty:

- 1. Plagiarism, e.g. the submission of work that is not one's own or for which credit has been obtained.
- 2. Improper collaboration in group work.
- 3. Copying or using unauthorized aids in tests and examinations.

#### **Academic Accommodation of Students with Disabilities**

Students who require academic accommodation must contact Student Accessibility Services (SAS) to make arrangements with a Program Coordinator. Academic accommodations must be arranged for each term of study. Student Accessibility Services can be contacted by phone 905-525-9140 ext. 28652 or e-mail <a href="mailto:sas@mcmaster.ca">sas@mcmaster.ca</a>. For further information, consult McMaster University's Policy for Academic Accommodation of Students with Disabilities.

## Religious, Indigenous and Spiritual Observances (RISO)

The University recognizes that, on occasion, the timing of a student's religious, Indigenous, or spiritual observances and that of their academic obligations may conflict. In such cases, the University will provide reasonable academic accommodation for students that is consistent with the Ontario Human Rights Code.

Please review the <u>RISO information for students in the Faculty of Social Sciences</u> about how to request accommodation.

### **Faculty of Social Sciences E-mail Communication Policy**

Effective September 1, 2010, it is the policy of the Faculty of Social Sciences that all e-mail communication sent from students to instructors (including TAs), and from students to staff, must originate from the student's own McMaster University e-mail account. This policy protects confidentiality and confirms the identity of the student. It is the student's responsibility to ensure that communication is sent to the university from a McMaster account. If an instructor becomes aware that a communication has come from an alternate address, the instructor may not reply at his or her discretion.

## **Privacy Protection**

In accordance with regulations set out by the Freedom of Information and Privacy Protection Act, the University will not allow return of graded materials by placing them in boxes in departmental offices or classrooms so that students may retrieve their papers themselves; tests and assignments must be returned directly to the student. Similarly, grades for assignments for courses may only be posted using the last 5 digits of the student number as the identifying data. The following possibilities exist for return of graded materials:

- 1. Direct return of materials to students in class;
- 2. Return of materials to students during office hours;
- 3. Students attach a stamped, self-addressed envelope with assignments for return by mail;
- 4. Submit/grade/return papers electronically.

Arrangements for the return of assignments from the options above will be finalized during the first class.

#### **Online Elements**

This course includes on-line elements (e.g. e-mail, Avenue to Learn (A2L), LearnLink, web pages, capa, Moodle, ThinkingCap, etc.). Students should be aware that, when they access the electronic components of a course using these elements, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is

dependent on the technology used. Continuation in a course that uses on-line elements will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

## **Online Proctoring**

Some courses may use online proctoring software for tests and exams. This software may require students to turn on their video camera, present identification, monitor and record their computer activities, and/or lock/restrict their browser or other applications/software during tests or exams. This software may be required to be installed before the test/exam begins.

## **Copyright and Recording**

Students are advised that lectures, demonstrations, performances, and any other course material provided by an instructor include copyright protected works. The Copyright Act and copyright law protect every original literary, dramatic, musical and artistic work, including lectures by University instructors

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

#### **Course Modification**

The instructor and university **reserve the right to modify elements of the course during the term**. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.

#### **Conduct Expectations**

As a McMaster student, you have the right to experience, and the responsibility to demonstrate, respectful and dignified interactions within all of our living, learning and working communities. These expectations are described in the <u>Code of Student Rights & Responsibilities</u> (the "Code"). All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members,

## whether in person or online.

It is essential that students be mindful of their interactions online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with university functions on online platforms (e.g. use of Avenue 2 Learn, WebEx or Zoom for delivery), will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students' access to these platforms.

#### **Extreme Circumstances**

The University reserves the right to change the dates and deadlines for any or all courses in extreme circumstances (e.g., severe weather, labour disruptions, etc.). Changes will be communicated through regular McMaster communication channels, such as McMaster Daily News, A2L and/or McMaster email.

