ARTSSCI 2R03/APPLIED STATISTICAL INFEERENCE  
2015-2016 (TERM 2)  

INSTRUCTOR: Dr. Fred M. Hoppe, HH/205, (905) 525-9140 Ext. 24688. Email: hoppe@mcmaster.ca. Office hours: Tues 10:30am-11:20am, Fri 11:30am-12:20pm

TAs: Mythili Nair (nairmh@mcmaster.ca), Ryan Peters (petersrj@mcmaster.ca), Aalok Shah (shaha42@mcmaster.ca).

LECTURES: Tuesdays and Fridays 8:30 am in TSH/B105.

TUTORIAL: Each student will be assigned to one of three weekly tutorials held in JHE/234.


CALENDAR DESCRIPTION: Inferential statistics, with an emphasis on applications. Topics include data description, graphical methods, probability, confidence intervals, hypothesis testing, one-way ANOVA, analysis of categorical data, regression and correlation. Use of a statistics software package.

TEXT COVERAGE: Tentative: Week 1 (Ch. 1, 2), Week 2 (Ch. 2, 3), Week 3 (Ch. 4, 5), Week 4 (Ch. 8, 9), Week 5 (Ch. 12, 13), Week 6 (Ch. 13, 14), Week 7 (Ch. 15, 16), Week 8 (Ch. 17, 18), Week 9 (Ch. 20, 21), Week 10 (Ch. 21, 22), Week 11 (Ch. 22, 23), Week 12 (Ch. 25, 26), Week 13 (Ch. 26, 27). An updated schedule may be provided from time to time, depending on the actual coverage.

ASSESSMENT: A final percent will be determined from term work (three assignments worth 7% each, two midterm tests worth 12% each, collaborative learning/tutorial worth 5%) and a cumulative final examination worth 50%. The letter grade will be determined from the final percent using the grade equivalence chart in the Undergraduate Calendar. The tentative dates for term work are as follows: Test 1 on Feb. 9; Test 2 on Mar. 22. Assignment 1 due Jan. 29; Assignment 2 due Mar. 4, Assignment 3 due Apr. 1. Assignments are to be submitted in class on the due dates. The tests will be held in the evening and locations will be announced once rooms have been secured.

CALCULATOR: McMaster University endorses a “standard” calculator (Casio fx991). This is the only calculator permitted on tests and the final examination.

POLICY FOR MISSED WORK: A missed/late assignment or a missed test counts as 0%. However, you should be aware of the policy (see below) regarding the McMaster
Student Absence Form (MSAF). The weight of any excused work from MSAF will be added to the final exam.

**McMaster Student Absence Form (MSAF):** In the event of an absence for medical or other reasons, students should review and follow the Academic Regulation in the Undergraduate Calendar “Requests for Relief for Missed Academic Term Work.” Please note that these regulations have changed beginning Spring/Summer 2015. If you have any questions about the MSAF, contact your Associate Dean’s office. You may also speak with Shelley Anderson or Rebecca Bishop in the Arts & Science Program office (C-105).

**McMaster Policy on Academic Integrity:** You are expected to exhibit honesty and use ethical behaviour 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 behaviour can result in serious consequences, such as a 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, at http://www.mcmaster.ca/academicintegrity. 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 other 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. SAS can be contacted by phone (905) 525-9140 Ext. 28652 or email (sas@mcmaster.ca). For further information, consult McMaster University’s Policy for Academic Accommodation of Students with Disabilities.

**Email Contact and Student Responsibility Statement:** Please note: 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. The instructor also reserves the right to change the weight of any portion of the grading scheme in such a way that if changes are made, each student’s grade will be the higher of the original weightings and the new weightings. It is the responsibility of students to check the course website and their McMaster email weekly during the term and to note any changes. Announcements will be made in class and on the course website.