

Course Outline Form for FALL 2016

General Information

Course Title: Intro Mathematical Statistics I

Course Description:

The topics covered in this course include: Probability spaces; discrete and continuous random variables; multivariate distributions; expectations; moments, Chebyshev's inequality, product moments; sums of random variables, generating functions; Gamma, Beta, t and F distributions; central limit theorem; sampling distributions.

Prerequisite(s): (1 of [IPS*1510](#), [MATH*1210](#), [MATH*2080](#)), ([STAT*2040](#) or [STAT*2120](#))

Department(s): Department of Mathematics and Statistics

Credit Weight: 0.5

Academic Department

(Mathematics and Statistics)

Semester Offering: F2016

Class Schedule and Location:

LEC Tues, Thur
08:30AM - 09:50AM
[MCKN](#), Room 226

Instructor Information

Instructor: E.M. Carter
e-mail: ecarter@uoguelph.ca
Phone: x53569. Office: MacNaughton 516.

Office Hours: T and R 10:30-11:30

Course Content

Specific Learning Outcomes:

Students will learn the mathematics behind statistical inference, including conditional and marginal distributions, moment generating functions and sampling distributions.

Lecture Content:

Course Assignments and Tests:

Assignments 40%

Mid Term 20% in class Tuesday October 25

Exam 40% Friday

07:00PM - 09:00PM (2016/12/09)

Course Resources

Required Texts:

John E. Freund's Mathematical Statistics with Applications

Lectures will be posted on line.

Course Policies

Grading Policies

There will be 4 assignments to be handed in during class.

University Policies

Academic Consideration

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, id#, and e-mail contact. See the academic calendar for information on regulations and procedures for

Academic Consideration:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Accessibility

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Centre for Students with Disabilities as soon as possible.

For more information, contact CSD at 519-824-4120 ext. 56208 or email csd@uoguelph.ca or see the website: <http://www.uoguelph.ca/csd/>

Course Evaluation Information

Please see <http://www.mathstat.uoguelph.ca/files/TeachevaluationformF10.pdf>

Drop date

The last date to drop one-semester courses, without academic penalty, is Friday, November 4. For regulations and procedures for Dropping Courses, see the Academic Calendar: <https://www.uoguelph.ca/registrar/calendars/undergraduate/2016-2017/c03/c03-fallsem.shtml>