
STAT 2559 – Basics of Statistical Modeling

WINTER 2022

Instructor	Dr. Jason D. Nielsen
Contact Info.	Office: 5217 HP Email: jdn@math.carleton.ca Web page: http://www.math.carleton.ca/~jdn
Office Hours	Thursday 13:00-14:00 or by appointment
Text	<i>Mathematical Statistics with Applications</i> , 7 th Edition Dennis Wackerly, William Mendenhall and Richard L. Scheaffer
Lectures	Monday and Wednesday 11:35 - 12:55 (ONLINE)
Lab	Beginning on Jan. 25 A1: Tuesday 13:35 - 14:25 (ONLINE) A2: Tuesday 12:35 - 13:25 (ONLINE)
Grading	Assignments: 30 % Midterm: 20 % Final: 50 % In order to pass the course you must obtain a cumulative mark of at least 50% and no less than 40% on any one of the above components.
Assignments	Four assignments will be posted and handed in on Brightspace.
Midterm	A midterm will be given on: - Monday Mar. 14 from 11:35 - 12:55 a non-programmable calculator may be used.
Final	A cumulative final will be given during the examination period (TBA).

Course Outline

The course will consider concepts, techniques and methods used in descriptive and inferential statistics. Topics to be covered may include graphical and numerical summaries, the Central Limit Theorem, estimation and properties of estimators, confidence intervals and hypothesis tests for a population parameter and for the comparison of two populations, chi-square tests, contingency table analyses, analysis of variance, regression, and nonparametric procedures.

Academic Integrity Policy

<https://carleton.ca/registrar/academic-integrity>.

Academic Accommodation

You may need special arrangements to meet your academic obligations during the term. For an accommodation request the processes are as follows:

Pregnancy obligation: write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details see the [Student Guide](#).

Religious obligation: write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details see the [Student Guide](#).

Students with Disabilities: The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website (<http://carleton.ca/pmc>) for the deadline to request accommodations for the formally-scheduled exam (if applicable).