



**Faculty of Science and General Studies
Department of Mathematics**

Course Title: Biometry
Course Number: 201-234-VA
Section: 00001
Semester: Winter 2020

Teacher: I.T. Ivanov
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Course Description: This is an elementary statistics course with emphasis placed on ecological and biological applications. The student will be introduced to the basics of descriptive and inferential statistics. Topics covered include experimental design organizing data, measures of central tendency and variation, Binomial, Poisson and Normal distributions, testing hypotheses, linear regression and analysis of variance. The usage of techniques and tools learned in this course will allow the students to collect, analyze and present ecological data in a rigorous quantitative manner.

Ponderation: Theory 2 hours per week, Lab 2 hours per week, Homework 2 hours per week

Prerequisites: For a list of prerequisites, please consult the course listing on the master course schedule, <http://www.vaniercollege.qc.ca/online-schedule>.

Teaching Methods: A lecture/workshop approach to classroom work accompanied by frequent homework assignments will prepare the student for three longer examinations. One hour per week will be spent in a computer lab working with Excel software.

Recommended Textbook: *Biostatistical Analysis*, Jerrold H. ar, 5th edition; Publisher: Pearson (2009)

Additional Expenses: None anticipated.

Office Hours: Thursdays 2pm - 4pm.

Competencies to be achieved: For the course objectives and the expected learning outcomes please consult the [course content document](#).

Important Dates: Test 1 will be given during the 6th week of classes. Test 2 will be given on April 30th. Class exercises, lab exercises and homework will be due every week.

Evaluation Procedures and Breakdown of Marks:

- Term test one - 30%
- Term test two - 30%
- Excel work - 10%
- Class exercises and homework - 20%
- Student project – 10%

Academic Resources: The Tutoring & Academic Success Centre (TASC) provides free peer tutoring every workday in E 300. See www.vaniercollege.qc.ca/tlc/home for further details.

Course Policies: You are responsible for all work, even if you are absent. If you miss a test, you must provide a doctor's note. All electronic devices such as cell phones, tablets etc. must be turned off and out of sight upon entering class.

Unless explicitly allowed by the instructor, all electronic devices including but not restricted to smart phones, smart watches, Fit Bits - all models, cameras, laser devices, MP3 players, recording and/or playback devices in any form, ear buds, any Bluetooth device are prohibited during in class examinations. A simple possession of such devices is considered cheating and will be treated as such.

General Academic Policies: It is the student's responsibility to be familiar with and adhere to all Vanier College Policies. A summary of the course-level policies that apply in this and all other Vanier courses can be found under "Course-Level Policies" in Important Vanier Links on Omnivox, or by following this link: <http://www.vaniercollege.qc.ca/psi/course-level-policies/>. Complete policies can be found on the Vanier College website, under [Policies](#).

By-Law Number 8 – Academic Success: To be in good standing in the College and be permitted to register for the following semester, a student must have passed more than 50% of the courses in which they are registered and a minimum of 50% of the program-specific courses in which they are registered. Many programs have specific additional requirements for student success, which are made known to students in program requirement documents and in By-Law Number 8 – Academic Success. (<http://www.vaniercollege.qc.ca/bylaws-policies-procedures/files/2016/08/By-Law-8-Academic-Success.pdf>)