

Syllabus

General Information

- Instructor: Yili Hong, Professor of Statistics
- Office: 213 Hutcheson Hall; Email: yilihong@vt.edu
- Course modality: Face-to-Face Instruction
- Class time and place: TR 5:00 pm-6:15 pm; Seitz 300
- Office hours: TR 2:00 pm-3:00 pm, or by appointment.
Available in both in office and via zoom.
Zoom link for office hours: <https://virginiatech.zoom.us/j/88288072335>

Resources

- Course webpage: <https://canvas.vt.edu/>
- Notes: Classes are based on lecture notes provided.
- Textbook:
Daniel and Cross (2013). *Biostatistics: A foundation for analysis in the health sciences*, 10th ed. Hoboken, NJ: J. Wiley & Sons. (ISBN 978 1118302798), recommended.
- Software: JMP, required. Purchase JMP directly from Software Distribution.
<https://itpals.vt.edu/softwarelicensingcenter/studentsoftware.html>
- Google Drive link for sharing large files (e.g., videos):
<https://drive.google.com/drive/folders/1PuwR4kwHTv0UZ0c-21EuFEaXoWIjyFS9?usp=sharing>

Description

This course is the first in a two-semester sequence (Stat 5605 and Stat 5606) of Biometry. The overall objective is the development of basic statistical literacy and skills in the analysis of biological and health data. The following topics are included: introduction, descriptive statistics, probability theory, sampling distribution, parameter estimation, and hypothesis testing.

Evaluation

- Letter grade will be given based on homework (30%), mid-term 1 (20%), mid-term 2 (20%), and final exam (30%).
- Homework: There will be regular homework. Students need to submit their homework online on Canvas. No late homework will be accepted.

- Mid-term 1: take home, open book, scheduled to be on the week of September 21, 2021.
- Mid-term 2: take home, open book, scheduled to be on the week of November 09, 2021.
- Final exam: take home, open book, comprehensive. The final exam is due at 9 pm, Saturday, December 11, 2021.

Academic Integrity

Students are expected to abide by Virginia Tech's Community Standard for all work for this course (<http://www.honorsystem.vt.edu/>). Violations of the Standard will result in a failing final grade for this course and will be reported to the Dean of Students for adjudication. Ignorance of what constitutes academic dishonesty is not a justifiable excuse for violations.

Special Accommodation

As supported by Virginia Tech's Principles of Community (<http://www.vt.edu/diversity/principles-of-community.html>), all students will be treated equally. Those with special needs can be accommodated and should refer to the website <http://www.ssd.vt.edu/> for specific questions.