

St. Francis Xavier University
Department of Mathematics,
Computing and Information Systems
Math 231.20 - Statistics for Students in the Sciences

Instructor: Aaron Childs
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Office Hours:

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------------|---------------|----------------|------------------|-----------------|---------------|
| 8:15-9:15 | Math 110 | | | Math 232 | |
| 9:15-10:15 | | | | Office Hours | Office Hours |
| 10:15-11:15 | | Math 232 | Math 110 | Office Hours | Office Hours |
| 11:15-12:15 | | | | Math 110 | Math 232 |
| 12:15-1:15 | | | | | |
| 1:15-2:15 | Math 231 | Office Hours | Math 231 | Math 231 | |
| 2:15-3:15 | Office Hours | Office Hours | Office Hours | Office Hours | |
| 3:15-4:15 | Office Hours | | Office Hours | | |
| 4:15-5:15 | | | | | |

COURSE INFORMATION

Lectures: NHB20 Mondays 1:15, Wednesdays 1:15, and Thursdays 1:15

Labs: You will go to one of the following labs on the weeks given below.
 Block B₁: Mondays at 9:15 in Xavier Hall 126
 Block E₁: Tuesdays at 1:15 in Nicolson Hall 123
 Block H₂: Thursdays at 8:15 in Xavier Hall 126
 Block K₂: Thursdays at 10:15 in Xavier Hall 126
 Block J₃: Thursdays at 12:15 in Nicolson Hall 123

Topics Covered: Properties of probability; discrete and continuous random variables including binomial, normal, *t*- and χ^2 distributions; descriptive statistics; graphical representations of data including stem and leaf plots, histograms and Q-Q plots; point and interval estimation; hypothesis testing; introduction to linear regression

Textbook: *Introductory Statistics*, by Sheldon Ross. Published by McGraw Hill

Calculators: Any calculator can be used on the tests and exam.

Formula Sheet: Some formulas will be given on the tests and exam.

Assignments: There will be six assignments, due anytime before 12 noon on the following dates:

Assignment #1: Tuesday, January 21; Sections 4.1-4.5, 5.1-5.4
Assignment #2: Tuesday, February 4; Sections 5.1-5.5, 6.1-6.6, 7.5
Assignment #3: Tuesday February 18; Sections 2.1-2.6, 3.1-3.7, 7.1-7.4
Assignment #4: Tuesday March 11; Sections 8.1-8.7, 9.1-9.5
Assignment #5: Tuesday March 25; Sections 10.1-10.6,
Assignment #6: Tuesday April 8; Sections 12.1-12.9

Note: Assignments handed in anytime after 12 noon on the due dates will receive a grade of 0.

Labs: There will be five labs, to be handed in with Assignments 2-6 respectively, and to be held the week of:

Lab #1: The week of January 27 to 31
Lab #2: The week of February 10 to 14
Lab #3: The week of March 3 to 7
Lab #4: The week of March 17 to 21
Lab #5: The week of March 31 to April 4

Tests and Final Exam: The tests and exam will be on the following dates:

Test #1: Wednesday February 12
Test #2: Wednesday March 19
Final Exam: To be determined

Course Evaluation:

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|-------------------|-----|
| Assignments/Labs: | 20% |
| Test #1: | 20% |
| Test #2: | 20% |
| Final Exam: | 40% |