

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

**Instructor:** Aaron Childs  
**Office:** Basement Nicholson Annex 20  
**Phone:** 867-5402  
**E-mail:** [achilds@juliet.stfx.ca](mailto:achilds@juliet.stfx.ca)  
**Web Site:** <http://www.stfx.ca/people/achilds/welcome.html>  
**Office Hours:**

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>8:15-9:15</b>	Math 433			Math 331	
<b>9:15-10:15</b>	Office Hours	Office Hours	Office Hours	Office Hours	Office Hours
<b>10:15-11:15</b>	Office Hours	Math 331	Math 433	Office Hours	Office Hours
<b>11:15-12:15</b>				Math 433	Math 331
<b>12:15-1:15</b>					
<b>1:15-2:15</b>	Math 231		Math 231	Math 231	
<b>2:15-3:15</b>	Office Hours	Math 372	Office Hours		
<b>3:15-4:15</b>		Math 372			
<b>4:15-4:45</b>		Math 372			

**COURSE INFORMATION**

**Lectures:** NH20, Mondays, Wednesdays, and Thursdays at 1:15

**Labs:** Xavier Hall 126, Monday at 9:15 and 1:15, Wednesday at 2:15, Thursday at 9:15 and 10:15 and 2:15 on the weeks given below

**Topics Covered:** Properties of probability; discrete and continuous random variables including binomial, normal,  $t$ - and  $\chi^2$  distributions; descriptive statistics; graphical representations of data including stem and leaf plots and histograms; 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 exam.

**Assignments:** There will be six assignments, due at the beginning of class on the following dates:

[Assignment #1:](#) Thursday, January 22; Sections 4.1-4.5, 5.1-5.4  
[Assignment #2:](#) Thursday, February 5; Sections 5.1-5.5, 6.1-6.6, 7.5  
[Assignment #3:](#) Thursday, February 19; Sections 2.1-2.6, 3.1-3.7, 7.1-7.4  
[Assignment #4:](#) Thursday, March 12; Sections 8.1-8.7, 9.1-9.5  
[Assignment #5:](#) Thursday, March 26; Sections 10.1-10.6,  
[Assignment #6:](#) Thursday, April 9; Sections 12.1-12.9

**Note:** Assignments handed in anytime during or after class will receive a grade of 0.

**Labs:** There will be six labs, to be held the week of:

Lab #1: The week of January 12 to January 16  
Lab #2: The week of January 26 to January 30  
Lab #3: The week of February 9 to February 13  
Lab #4: The week of March 2 to March 6  
Lab #5: The week of March 16 to March 20  
Lab #6: The week of March 30 to April 3

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

Quiz #1 Thursday January 15  
Quiz #2 Thursday January 29  
[Test #1:](#) Thursday February 12  
Quiz #3 Thursday March 5  
[Test #2:](#) Thursday March 19  
Quiz #4 Thursday April 2

Final Exam: To be determined

**Course Evaluation:**

Assignments: 10%  
Labs 10%  
Test #1: 15%  
Test #2: 15%  
Quizzes: 10%  
Final Exam: 40%