

**St. Francis Xavier University**  
**Department of Mathematics,**  
**Computing and Information Systems**  
**Math 231.10 - Statistics for Students in the Sciences**

**Instructor:** Aaron Childs  
**Office:** Basement Nicholson Annex 20  
**Phone:** 867-5402  
**E-mail:** achilds@juliet.stfx.ca  
**Web Site:** <http://juliet.stfx.ca/~achilds>  
**Office Hours:**

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b>8:15-9:15</b>	Math 333			Math 231	
<b>9:15-10:15</b>	Office Hours			Office Hours	
<b>10:15-11:15</b>	Office Hours	Math 231	Math 333	Office Hours	Office Hours
<b>11:15-12:15</b>				Math 333	Math 231
<b>12:15-1:15</b>					
<b>1:15-2:15</b>	Math 354		Math 354	Math 354	
<b>2:15-3:15</b>	Office Hours	Office Hours	Office Hours		
<b>3:15-4:15</b>		Office Hours			
<b>4:15-5:15</b>					

**COURSE INFORMATION**

**Lectures:** NH20, Tuesdays 10:15, Thursdays 8:15, and Fridays 11:15

**Labs:** Xavier Hall 126, Monday, Wednesday, and Thursday at 2:15 and Friday 12:15 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 anytime before 12 noon on the following dates:

Assignment #1: Wednesday, September 24; Sections 4.1-4.5, 5.1-5.4  
 Assignment #2: Wednesday, October 8; Sections 5.1-5.5, 6.1-6.6, 7.5

Assignment #3: Wednesday, October 22; Sections 2.1-2.6, 3.1-3.7, 7.1-7.4  
Assignment #4: Wednesday, November 5; Sections 8.1-8.7, 9.1-9.5  
Assignment #5: Wednesday, November 19; Sections 10.1-10.6,  
Assignment #6: Wednesday, December 3; 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 six labs, to be held the week of:

Lab #1: The week of September 15 to 19  
Lab #2: The week of September 29 to October 3  
Lab #3: The week of October 13 to 17  
Lab #4: The week of October 27 to 31  
Lab #5: The week of November 10 to 14  
Lab #6: The week of November 24 to 28

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

Test #1: Tuesday October 14  
Test #2: Tuesday November 11  
Final Exam: (Tentative) Saturday December 6, 9:00 am

**Course Evaluation:**

Assignments: 15%  
Labs 10%  
Test #1: 15%  
Test #2: 15%  
Final Exam: 45%

**Or:**

Assignments: 15%  
Labs 10%  
Test #1: 12.5%  
Test #2: 12.5%  
Quizzes: 10%  
Final Exam: 40%