

**St. Francis Xavier University
Department of Mathematics,
Computing and Information Systems
Math 333 - Introductory Probability Theory**

Instructor: Aaron Childs
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Office Hours:

	Monday	Tuesday	Wednesday	Thursday	Friday
8:15-9:15				Math 331	
9:15-10:15		Office Hours		Office Hours	Office Hours
10:15-11:15		Math 331			Office Hours
11:15-12:15					Math 331
12:15-1:15					
1:15-2:15	Math 231		Math 231	Math 231	
2:15-3:45	Office Hours		Office Hours		
3:45-5:00	Math 333		Math 333		

COURSE INFORMATION

Lectures: AX23 Mondays and Wednesdays 3:45-5:00

Topics Covered: Combinatorial analysis, axioms of probability, the law of total probability and Bayes' Theorem, discrete and continuous random variables, mathematical expectation and variance, joint distributions, introduction to moment generating functions and their applications, limit theorems

Optional Textbook: *Mathematical Statistics With Applications*, Fifth Edition, by Wackerly, Mendenhall, and Schaeffer. Published by Duxbury Press.

Reference Book: *A First Course in Probability*, Fifth Edition, by Sheldon Ross. Published by Macmillan.

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

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

Assignment #1:	Wednesday, January 20;	Chapter 2
Assignment #2:	Wednesday, February 3;	Chapter 2
Assignment #3:	Wednesday, February 17;	Sections 3.1-3.9
Assignment #4:	Wednesday, March 10;	Sections 4.1-4.7, 7.5
Assignment #5:	Wednesday, March 24;	Sections 4.9, 5.1-5.5
Assignment #6:	Wednesday, April 7;	Sections 5.6-5.9, 6.3

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

Quiz #1:	Wednesday January 13
Quiz #2:	Wednesday January 27
Test #1:	Wednesday February 10
Quiz #3:	Wednesday February 24
Test #2:	Wednesday March 17
Quiz #4:	Wednesday March 31

Final Exam: 2:00pm on Saturday April 17

Course Evaluation:

Assignments:	20%
Quizzes:	10%
Test #1:	15%
Test #2:	15%
Final Exam:	40%