

Required Text: Probability and Statistical Inference (Eighth Edition)

Authors: Hogg, Tanis

Recommended Supplement: Maple 13 Student Edition

[http://www.maplesoft.com/academic/adoptioncenter/adoptioncenter\\_coursedetail.aspx?EID=5135](http://www.maplesoft.com/academic/adoptioncenter/adoptioncenter_coursedetail.aspx?EID=5135)

Office Hours:   Tues.    11:00 p.m. - 12:10 p.m., 2:15 p.m. – 3:45 p.m.  
                   Thurs.    11:00 p.m. - 12:10 p.m.  
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Outline:    There will be 3 in-class exams and a final exam. The tentative dates for these exams are: Sept. 29, Nov. 5, and Dec. 8. The Final Exam is Tuesday, Dec. 15. The lowest grade will be dropped and the other two grades will count 30% each. The final exam counts as 40% of your grade. **THERE WILL BE NO MAKE-UP EXAMS OR INDIVIDUAL EXTRA CREDIT ASSIGNMENTS.** If you miss one of the in-class exams **for any reason**, the other 2 in-class exams will be counted 30% each. Despite having emphasized my policy of no make-ups, often a student who has done poorly on an exam requests a makeup for a missed test due to an illness, an unfortunate family matter, or other emergency. Understand that the missed exam will be the dropped test, and the grade(s) from other exams will count. Please do not ask for a make-up.  
 If more than one exam is missed then you must withdraw from the course. The last day to withdraw with a grade of "W" is Thurs., November 12.

Grade:	93-100 A	85-88 B+	77-79 B-	70-73 C	64-66 D+
	89-92 A-	80-84 B	74-76 C+	67-69 C-	60-63 D

Please note:    Anyone receiving a grade below 60 will not pass this course (i.e. will receive a grade of F). This includes, but is not limited to, graduating seniors, athletes, and students on scholarships or probation.

Plagiarism:     Any student caught cheating on an exam or on any assignment will be dealt with in a manner consistent with Hofstra's policy. No such incident will be ignored.

#### *Disabilities Policy*

If you have any concerns regarding a physical, psychological and/or learning disability that may have an impact upon your performance in this course, appropriate accommodations can be made on an individualized, as-needed basis after the needs, circumstances and documentation have been evaluated by the appropriate office on campus.

The Office of Services for Students with Disabilities is located in 212 Memorial Hall. Telephone: 516-463-7074. Please see the Hofstra Guide to Pride, or see their site: <http://www.hofstra.edu/StudentAffairs/stddis/index.html> .

*Learning Goal:* Students will apply analytical reasoning across academic disciplines.

- Apply quantitative, inductive, and deductive reasoning.
- Apply abstract thinking and conceptual modeling.

*Learning Goal:* Mathematics majors will be able to learn and explain mathematics on their own.

Assignments:

[ ] denotes odd numbers only

<u>#</u>	<u>Sec.</u>	<u>Page</u>	<u>Problems</u>	<u>Description</u>
1.	1.2	18	[3-11], 12, [13-17]	Probability, Sample Spaces, Venn Diagrams
2.	1.3	27	[1-19]	Counting Principles
3.	1.4	36	[3-11], 15, 17	Conditional Probability
4.	1.5	43	[1-17]	Independent Events
5.	1.6	48	[1-11]	Bayes' Theorem
6.	2.1	59	3, 7, [11-15]	Discrete Random Variables, p.f's
7.	2.2	66	[1-7]	Expected Value (Mean) and Variance of a R.V.,
	2.3	75	1, 3, 9, 14	Population and Sample Mean and Sample Variance
8.	2.4	86	[1-5], 7a-c, 15, 19, 21	Binomial R.V. & c.d.f's
9.	2.5	97	1-3, 5, 7, 11, 12, 15, 19, 20	Moment Generating Functions (m.g.f's) of Discrete R.V's, Negative Binomial R.V.
10.	2.6	106	[3-9], 13	Poisson R.V.
11.	3.1	117	5 (Use Maple)	Continuous Type Data, Relative Frequency Histogram
12.	3.2	128	1 (Use Maple)	Stem & Leaf Plots, Box Plots
13.	3.3	139	[1-5], 9-17	Continuous R.V's & their p.d.f's, c.d.f's, m.g.f's, Quantiles
14.	3.4	146	[1-7], 11, 13	Continuous Uniform & Exponential R.V's
15.	3.5	155	[5-11], 15	Gamma & Chi-Square R.V's
16.	3.6	165	[3-11], 15, 17, 23, 27	Normal R.V.
17.	5.1	223	[1-9], 15	Functions of a R. V.
18.	5.5	253	[3-9]	Functions of Normal R.V's, Distribution of Sample Mean & Sample Variance
19.	6.2	289	[1-9]	Confidence Intervals about Means
20.	7.2	360	3, 4, [5-9]	Hypothesis Testing about One Mean