PSI(10^{th}): Chapter I-III vs. Casella & Berger(2^{nd}) and DeGroot & Schervish(3^{rd})

— PSI (10^{th}) —			— Reference Sections —	
		Topic I: Probability		
Week	**Section**	**Topic**	**Casella & Berger**(2^{nd})	**DeGroot & Schervish**(3^{rd})
1	1.1	Axioms of probability	1.1 – 1.2	1.5 – 1.6
2	1.2	Counting (perm., comb.)	1.3	1.7 – 1.9
3	1.3	Conditional probability	1.4	2.1
	1.4	Independence	1.5	2.2
4	1.5	Bayes' Theorem	1.6	2.3
		Topic II: Discrete Distributions		
Week	**Section**	**Topic**	**Casella & Berger**(2^{nd})	**DeGroot & Schervish**(3^{rd})
5	2.1	Discrete r.v.'s (pmf, cdf)	2.1	3.1
	2.2	Expectation	2.2 – 2.4	4.1 – 4.4
6	2.3	Mean, variance, MGF	2.4, 3.1	4.4 – 4.7
7	2.4	Binomial	2.3	5.2
	2.5	Hypergeometric	2.3	5.3
8	2.6	Negative binomial	2.3	5.5
	2.7	Poisson	2.3	5.4
		Topic III: Continuous Distributions		
Week	**Section**	**Topic**	**Casella & Berger**(2^{nd})	**DeGroot & Schervish**(3^{rd})
9	3.1	Continuous r.v.'s (pdf, cdf)	3.1	3.2 – 3.3
	3.2	Exponential, Gamma, χ^2	3.3	5.6 – 5.7
10	3.3	Normal distribution	3.2	5.6
	3.4	Beta, Uniform, etc.	3.4 – 3.6	5.8 – 5.9

Math Stats I: PSI(10^{th}): Chapter I-III): 10-Week Study Plan with Problems by Book

		PSI (10^{th})		**Casella & Berger** (2^{nd})		**DeGroot & Schervish** (3^{rd})	
			Topic I: Probability				
Week	**Topic**	**Sec.**	**Ex.**	**Sec.**	**Ex.**	**Sec.**	**Ex.**
1	Probability axioms	1.1	1,3,5,9	1.1	1,3,6	1.5	1,3
2	Counting methods	1.2	11,13,17,19	1.3	1,4,8	1.7 1.9	5 9
3	Conditional probability Independence	1.3 1.4	1,5,9,13 3,7,11	1.4 1.5	1,4 2,5,6	2.1 2.2	3,6 1,4
4	Bayes' theorem	1.5	1,5,9,15	1.6	1,3	2.3	2,6
			Topic II: Discrete Distributions				
Week	**Topic**	**Sec.**	**Ex.**	**Sec.**	**Ex.**	**Sec.**	**Ex.**
5	Discrete r.v.'s (pmf, cdf) Expectation	2.1 2.2	1,3,7,9 9,13,15	2.1 2.2	1,2 3,5	3.1 4.1	1,5 1,3
6	MGF, mean, variance	2.3	1,5,11,17	2.4	1,4	4.4	2,6
7	Binomial Hypergeometric	2.4 2.5	1,7,9 3,5,7	2.3 2.3	2,6 10	5.2 5.3	1,5 2,6
8	Negative binomial Poisson	2.6 2.7	9,13 1,5,11	2.3 2.3	12 14	5.5 5.4	1,3 2,4
			Topic III: Continuous Distributions				
Week	**Topic**	**Sec.**	**Ex.**	**Sec.**	**Ex.**	**Sec.**	**Ex.**
9	Continuous r.v.'s (pdf, cdf) Exp, Gamma, χ^2	3.1 3.2	2,6,10 5,7,9	3.1 3.3	1,3 2,6	3.3 5.6	1,4 1,5
10	Normal distribution Beta, Uniform, etc.	3.3 3.4	1,5,13 3,7,11	3.2 3.4	2,8 4,7	5.6 5.8	6,10 1,4