Guide line of syllabus for Mid-Term 2

Chapter 4:

4.1: Mean of a Random Variable

Definition 4.1, Example 4.1, Example 4.3, **Theorem 4.1,** **Example 4.4, Example 4.5, Definition 4.2, Example 4.6, Example 4.7,** **Theorem 4.2, Example 4.9, Example 4.10,** **Theorem 4.4,** **Example 4.13, Example 4.14, Theorem 4.5, Example 4.17, Example 4.18,** **Theorem 4.8**

Exercise

4.1-4.4, 4.6, 4.10-4.14, 4.17, 4.18, 4.20, 4.22, 4.23, 4.24, 4.25, 4.33-4.36, 4.43, 4.49, 4.50, **4.57, 4. 58, 4.59, 4.60**

Review Exercise
All questions related to the topics mentioned above

Chapter 5:

5.2: Binomial and Multinomial Distributions

5.3: Hypergeometric Distribution

5.5: Poisson Distribution and the Poisson Process

- **All the examples in the book related to above topics are included**
- **Questions discussed in class and questions from Exercise and review exercise in the book related to above topics are included**

Chapter 6:

6.1: Continuous Uniform Distribution

Example 6.1

6.2: Normal Distribution

Example 6.2, Example 6.3, Example 6.4

Exercise

6.3-6.9