

MTH 140: Study Guide for Exam 2



Instructions: Exam 1 is going to contain a mix of free response questions, fill in the blank and multiple choice questions. It will be on **Thursday, October 17 during class time**. You will be allowed to use your own filled in notes and your calculator.

In preparation for the exam, you may wish to do the following:

- Review the concepts learned in each section and as you go, **make a summary, formula sheet**. This will help you have all the things you need to remember in one place so you don't have to flip through your notes.
- Review the exercises used as examples during the lectures and in homeworks.
- Go over this Study Guide and make sure all the concepts/formulas look familiar and you know when/how to use them.
- Finally, after you have studied, take the practice exam. This assignment is not required. It is there for you to use as practice after you have studied. Do not use the Practice as your only preparation for the Exam; use it as a study tool.

Exam 1 will cover all of Chapter 2 and Chapter 3.

- **Chapter 2 Scheduling**

- Know how to get the optimal schedule when you are given a priority list.
- Know how to form a priority list using the **Decreasing time algorithm**.
- Know how to form a priority list using **Critical Path Algorithm**.

- **Chapter 3 Probability**

- Definitions and examples of experiments, outcomes, sample space, events,
- Classical versus empirical probability
- Know how to find probabilities of simple events
- Know how to find probabilities of complex events involving **or**; using **Venn diagrams**.
- Know how to find **conditional probabilities** from tables or using the formula.
- Know how to find probabilities of of complex events involving **and**; using **tree diagrams**.