# DESC 495: Information Systems Design and Implementation, Winter 2011

**Test 1 Study Guide**

## General notes

* The test is based primarily on the textbook, not on the PowerPoint slides, unless otherwise noted.
* You don’t need to know the details of any figure labelled “sample” (e.g. Figure 12-2 or 12-3)
* You need to understand all definitions given in bold and repeated in the edges of the page (e.g. RAD on page 451).
* You don’t need to draw any figures (e.g. 12-5 or 12-6); however, you will need to know, repeat, and explain the major steps in these figures, unless otherwise noted in this study guide.
* The best way to study is to read everything in the entire chapter, read the chapter review at the end, and then answer all the review questions, the “problems and exercises”. You wouldn’t need to do any of the projects, research, minicases, or “team and individual exercises” to help prepare for the test.

## Chapter 12: Systems Design (pages 444 to 467)

* Pages 447-448: Skip Modern Structured Design and Information Engineering; rather refer to the PowerPoint slide 12-5.
* Page 453: You do need to know all the steps of the FAST methodology presented in the textbook; this applies both to this page and throughout this course.
* Page 464: You don’t need to memorize all the items in Figure 12-12, but you should be able to know what belongs there and what does not.

## Chapter 13: Application Architecture and Modeling (pages 474 to 511)

* You will need to know how to represent a physical DFD from a set of instructions. This requires understanding all the figures and examples, but it will not require you to memorize, for example, all the items in Figures 13-2 or 13-3.
* Pages 484-494: Instead of the Figures 13-4 to 13-10 in the textbook, you only need to know and be able to draw the simpler figures on PowerPoint slides 25 to 36.
* In honour of this class, there will definitely be a question taken from page 495.
* Pages 505-507: You don’t need to know how to do figures like Figure 13-12 or 13-13.

## Chapter 14: Database Design (pages 516 to 542)

* Pages 528-529: You don’t need to do anything with database Normalization or normal forms, or Conventional File Design.
* Pages 530-535: While you do need to know and understand what a database schema is, you don’t need to cover any of the rules and guidelines in the numbered list, starting from “1. Each fundamental…” on page 530 to “5. Notice that *System Architect*…” on page 535.
* Page 533: You don’t need to know the data types in Figure 14-8.
* Page 537: Ignore Figure 14-10; it is not accurate, based on the description in the text.
* Pages 540-541: Ignore Figure 14-11; you don’t need any SQL for this exam.