Discrete Mathematics 離散數學
(705 12100)

Spring 2011

Time and Place
Lecture: Tuesday 14:20 – 17:20; Room 101, Building 1, College of Management.
Lab: Tuesday 17:30 – 18:20; Room 101, Building 1, College of Management.

Course Web Site
http://www.iis.sinica.edu.tw/~trc/public/courses/Spring2011/

Instructor
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Teaching Assistant
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Schedule (subject to adjustment)
02/22 Formal Logic; Propositional Logic. (1.1–1.2)
03/01 Predicate Logic; Logic in Mathematics; Methods of Proof. (1.3–1.5)
03/08 Graphs; Sets; Functions. (2.1–2.3)
03/15 Relations and Equivalences; Partial Orderings. (2.4–2.5)
03/22 Graph Theory; Recurrence Relations. (2.6; 3.1)
03/29 Closed–Form Solutions and Induction; Recursive Definitions. (3.2–3.3)
04/05 (no class on 04/05)
04/12 Proof by Induction; Recursive Data Structures. (3.4–3.5)
04/19 mid–term examination
04/26 Introduction to (Python) Programming
05/03 Basic Counting Techniques; Selections and Arrangements. (4.1–4.2)
05/10 Computing with Functions; Discrete Probability. (4.3–4.4)
05/17 Counting Operations in Algorithms; Estimation. (4.5–4.6)
05/24 Algorithms; Three Common Types of Algorithms; Algorithm Complexity (5.1–5.3)
05/31 Bounds on Complexity; Program Verification; Loop Invariants (5.4–5.6)
06/07 Thinking Through Applications (I)
06/14 Thinking Through Applications (II)
06/21 final examination

Textbook
Website: http://www.jblearning.com/catalog/9780763748920/
Errata: http://www.westmont.edu/~dhunter/edm_errata.pdf

Grade
Homework (40%) and examination (60%).