

2008年秋季博士班資格考注意事項(學生)

1. 重要日期

報名開始日期：97 年 9 月 15 日 (星期一)

報名截止日期：97 年 9 月 19 日 (星期五)

考試日期：97 年 10 月 2 日 (星期四) 及 10 月 3 日 (星期五)

2. 博士班資格考 reading list (本清單僅供參考，命題範圍得超越之)

作業系統：

A. Silberschatz, J. Peterson and P. Galvin
Operating System Concepts, 7th Edition
Chapters 1-13

或亞洲版 (Wiley Asia Student Edition)
A. Silberschatz, J. Peterson and P. Galvin
Operating System Principles, 7th Edition
Chapters 1-13

編譯器設計：

Charles, N. Fischer and Richard J. Leblanc, Jr.
Crafting Compiler with C, Benjamin/Cummings Inc., 1991 (開發圖書公司代理)
Chapters 1-9, 15-16

計算機結構：

Computer Organization & Design : The Hardware/Software Interface
David A. Patterson and John L. Hennessy

計算理論：

J. E Hopcroft, R. Motwani, J. D. Ullman
Introduction to Automata Theory, Languages, and Computation (2001)
Chapters 1-9

計算方法:

- (1) R.C.T. Lee, R.C. Chang, S.S. Tseng and Y.T. Tsai
Introduction to the Design and Analysis of Algorithms:
A Strategic Approach, McGraw Hill
Chapter 3: The greedy method
Chapter 4: The divide-and-conquer strategy
Chapter 8: The Theory of NP-completeness

- (2) T. H. Cormen, C. E. Leiserson, R.L. Rivest and C. Stein
Introduction to Algorithms, MIT Press, 2nd Edition
Chapter 3: Growth of functions
Chapter 4: Recurrences
Chapters 6-9: Sorting and order statistics
Chapter 15: Dynamic programming
Chapters 22-26: Graph algorithms
Section 28.2: Strassen's algorithm for matrix multiplication
Section 32.4: The Knuth-Morris-Pratt algorithm
Chapter 35: Approximation algorithms
NOTE: If your text book is the 1st Edition, the corresponding chapters
are: Chapters 2, 3, 4, 7-10, 16, 23-27, 31.2, 34.4, 37.