CS5206 (Fall 2009)
Foundations in Algorithms

Course Web: http://www.comp.nus.edu.sg/~cs5206/2009/
Tuesday, 6:30 – 8:30pm @COM1-204 (SR2)
Leong Hon Wai, COM1 03-41

Tentative Course Schedule (*Rev*: *11/11/2009*)

Wk	Date	In / Out	Topic
1	11/8	*HW1 out*	*Motivation:* Algorithms Technology, Sample Problems, Stable Marriage Problem, Interval Scheduling
2	18/8		*Analysis of Algorithms* (Master Theorem), Randomized Quicksort (*analysis*!)
3	25/8	*HW1 due*	*Greedy Algorithms:* Interval Scheduling, Shortest Path Algorithms, MST, Heaps
4	01/9	*HW2 out*	*Dynamic Programming Algorithms*:
5	08/9		** ***Lecture cancelled*** **
6	15/9	*HW2 due* *LEDA out*	*DS:* Data Abstraction, Augmenting Data Structures, LEDA, Binomial Heaps,
B	22/9	*LEDA due*	*DS:* Amortized Complexity, F-Heaps
7	29/9	*HW3 out*	DNSRA Project & Problem Reduction
8	06/10 09/10	*Proj-M1 due* *Proj-M2 due*	*NP-Completeness* & Proving NP-Completeness
9	13/10	*HW3 due*	*Cook's Theorem* & *Approximation Algorithms*
10	20/10		Approximation Algorithms (continued) & *Network Flows*
11	27/10	*HW4 out*	Network Flows & *Maximum Matching*
12	03/11		*Graph Partitioning* & *BAP Case Study*
13	10/11 14/11	*HW4 due* *Proj-M3 due*	*Local Search* Algorithms & Course Summary
S	17/11		* **STUDY WEEK** * **STUDY WEEK** *
E	30/11		***Final Exam* (*Open Book*)**