## 6.846 at a Glance, Spring 2010

Handout S10-H02

Wk. of Monday	Tuesday Lecture	Wednesday	Thursday Lecture	Friday
Registration Day 2/1	L1 Intro to multicore; Applications, technology, and parallel architecture		L2 Intro to the multicore lab and parallel programming	
2/8	L3 Applications; Continuum problems, iterative methods Hw1out (messaging)		L4 Applications; Continuum problems, direct methods	
Presidents Day 2/15 Holiday	Monday Schedule		L5 Applications; Stream problems, networking, beamforming	
2/22	L6 Applications; Hw1in Graph problems Hw2out (channels, shared mem	)	L7 Applications; Particle problems	
3/1	L8 Computational models; Communication and synchronization Discuss project ideas and think	about teams	L9 Applications; Stream problems; video processing Discuss project ideas and form	n teams
3/8	L10 Hw2in Emerging parallel programming languages Finalize project – proposals du	e next week	L11 Self aware parallel computing Finalize project – proposals of	ue next week
3/15	L12 hw2sol Designing multicores; Core size versus number of cores Hw3out (grain size)		Continue Designing multicores; Core size versus number of cores  1 Page Project proposals due	
3/22		Spring Break		
3/29	L14 Parallel machines and languages		Continue Parallel machines and languages; start Interconnection networks	
4/5	L16 Hw3in  Interconnection networks; Basics Hw4out (networks)		L17 Interconnection networks; Performance	
4/12	L18 Interconnection networks; VLSI technology primer 1 Page mid-term Project upda	te due	L19 Interconnection networks; Physical design constraints and network design	
Patriots Day 4/19 Holiday	Patriots Day Holiday		L20 Hw4in Caches and memory systems; basics Hw5out (coherence)	
4/26	L21 Caches and memory systems; cache coherence		L22 Caches and memory; Sequential consistency, transactional memory	
5/3	Processors for multicores; multithreading		L24 Hw5in Synchronization and messaging	
5/10	L25 Project presentations Project reports due		L26 Project presentations Last day of classes	Finals Next Week