

Tentative Syllabus
Algorithms II

	M	T	W	F
Week 1, 1/4-1/7	-	Lab 0	Alg Design/Analysis	Alg Design/Analysis
Week 2, 1/10 -1/14	Alg Design/Analysis	Lab 1	Alg Design/Analysis	Alg Design/Analysis
Week 3, 1/17 -1/21	Holiday	Lab 2	Random Proc.	Random Proc.
Week 4, 1/24 -1/ 28	Random Proc.	Lab 2	Random Proc.	Random Proc.
Week 5, 1/ 31-2/4	Random Proc.	Lab 3	Random Proc.	Graphs
Week 6, 2/7-2/11	Graphs	Lab 3	Graphs	Graphs
Week 7, 2/14-2/18	Graphs	Lab 4	Graphs	Data Mining
Week 8, 2/21-2/25	Data Mining	Lab 4	Data Mining	Data Mining
Week 9, 2/28-3/4	Data Mining	Lab 5	Data Mining	Midterm
Spring Break				
Week 10, 3/14-3/18	Clustering	Lab 5	Clustering	Clustering
Week 11, 3/21-3/25	Optimization	Lab 6	Optimization	Optimization
Week 12, 3/28-4/1	Optimization	Lab 7	Optimization	Optimization
Week 13, 4/4-4/8	Feature extraction	Lab 7	Feature extraction	Feature extraction
Week 14, 4/11-4/15	Feature extraction	Lab 8	Feature extraction	Feature extraction
Week 15, 4/18-4/22	Comp. Geometry	Lab 8	Comp. Geometry	Comp. Geometry
Week 16, 4/25-4/29	Comp. Geometry	Final Project	Comp. Geometry	Comp. Geometry
Lab 0	1/4	Brief introduction to course, no assignment		
Lab 1	1/11	Brute force methods for sorting		
Lab 2	1/18, 1/25	Searching applications		
Lab 3	2/1, 2/8	Monte Carlo; Random Walks		
Lab 4	2/15, 2/22	Graphs		
Lab 5	2/29,3/15	Data Mining		
Lab 6	3/22	Clustering		
Lab 7	3/29, 4/5	Optimization		
Lab 8	4/12, 4/19	Feature extraction, pattern recognition		

Instructors for topics:

Burkardt - Graph Theory, Feature extraction, Computational Geometry

Peterson - Algorithm Design and Analysis, Random Processes, Data Mining, Clustering, Optimization