CSCI 2300 Introduction to Algorithms

Textbook: **Algorithms** by Dasgupta, Papadimitriou, and Vazirani

Week	Readings	Monday	Tuesday	Wednesday	Thursday	Friday
1	Ch.0, §3.1, §4.1-4.2	**1/13:** Syllabus, Algorithms, Notation, Ethical Algorithms		**1/15 Lab:** [LAB 1]	**1/16:** Graph Algorithms	
2	§3.1, §4.1-4.2	**1/20: NO CLASSES** (MLK Jr. Day)		**1/22 Lab:** [LAB 2]	**1/23:** Graph Algorithms	**1/24:** [HW1 due] (add deadline)
3	§3.2-3.4, §4.3-4.4	**1/27:** Graph Algorithms		**1/29 Lab:** Recitation/Review	**1/30:** Graph Algorithms	
4	§4.5, §4.7	**2/3:** Graph Algorithms		**2/5 Lab:** [LAB 3]	**2/6:** Graph Algorithms	**2/7:** [HW2 due]
5	§5.1-5.2, §5.4	**2/10:** Graph Algorithms		**2/12 Lab:** Recitation/Review	**2/13:** Greedy Algorithms	
6		**2/17: NO CLASSES** (Presidents Day)	**2/18:** Greedy Algorithms (Monday schedule)	**2/19 Lab:** Exam 1 Review	**2/20:** Greedy Algorithms **[6:00PM EXAM 1 WEST HALL]**	**2/21:** ~~[HW3 due]~~
7	§2.1-2.3	**2/24:** Genetic Algorithms [HW3 due]		**2/26 Lab:** Recitation/Review	**2/27:** Divide and Conquer	
8	§2.4-2.5	**3/2:** Divide and Conquer		**3/4 Lab:** [LAB 4]	**3/5:** Divide and Conquer	**3/6:** [HW4 due] (drop deadline)
		3/9-3/13: NO CLASSES (Spring Break)				
		3/16-3/20: NO CLASSES (Extended Spring Break)				
9	§6.1-6.3	**3/23:** Dynamic Programming		**3/25:** Optional Lab Sessions (office hours)	**3/26:** Dynamic Programming	
10	§6.4, §6.6-6.7	**3/30:** Dynamic Programming		**4/1 Lab:** [LAB 5]	**4/2:** Dynamic Programming	
11	§7.1-7.2	**4/6:** Dynamic Programming	**4/7:** [HW5 due]	**4/8 Lab:** Recitation/Review	**4/9:** Dynamic Programming	**4/10:** (P/NC deadline)
12	§7.3, §8.1	**4/13:** Network Flow and Linear Programming		**4/15 Lab:** [LAB 6]	**4/16:** Network Flow and Linear Programming	
13	§8.2-8.3	**4/20:** NP-Complete Problems	**4/21:** [HW6 due]	**4/22 Lab:** Exam 2 Review	**4/23:** NP-Complete Problems **[EXAM 2]**	
14	§9.1-9.3	**4/27:** Randomized Algorithms, Final Exam Review		**4/29 Lab:** Final Exam Review [HW7 due] (last day of classes)	**4/30-5/1: NO CLASSES** (Reading Days)	
15		**5/4-5/8:** FINAL EXAMS WEEK **[COMPREHENSIVE FINAL EXAM WEDNESDAY (5/6)]**				