CSci 493.65 Syllabus

The following table outlines the topics that we will cover during the semester. The lectures are based on my own lecture notes, available on the course website. The notes loosely correspond to some of the chapters of the current textbook, not necessarily in textbook order. The exact timing of each class is an approximation; we may deviate from this plan. You are expected to read the lecture notes and the relevant sections of the book before the class in which it is covered, so that you are prepared for the class. ***Much of my notes is about topics that are not in the book. They are noted with an asterisk *.***

Class	Date	Chapter/Topic	Textbook Chapters
1	8/28	1 Background; Motivation and History of Parallel Computing	1
2	8/31	2 Parallel architectures	1
3	9/7	2 Parallel architectures	1
4	9/11	2 Parallel architectures	1
5	9/14	3 Parallel Algorithm Design	2
6	9/18	3 Parallel Algorithm Design	2
7	9/19	4 Message-Passing Programming	5
8	9/25	4 Message-Passing Programming	5
9	9/28	4 Message-Passing Programming	5
10	10/2	5 Floyd's Algorithm	5
11	10/5	5 Floyd's Algorithm	5
12	10/12	6 Performance Analysis	*
13	10/16	6 Performance Analysis	*
14	10/19	7 Matrix-Vector Multiplication	*
15	10/23	7 Matrix-Vector Multiplication	*
16	10/26	7 Matrix-Vector Multiplication	*
17	10/30	8 Monte Carlo Methods	*
18	11/2	8 Monte Carlo Methods	*
19	11/6	8 Monte Carlo Methods	*
20	11/9	8 Monte Carlo Methods	*
21	11/13	10 Shared-Memory Programming	3
22	11/16	10 Shared-Memory Programming	3
23	11/20	10 Shared-Memory Programming	3
24	11/27	10 Shared-Memory Programming	3
25	11/30	10 Shared-Memory Programming	3
23	12/4	10 Shared-Memory Programming	4
24	12/7	10 Shared-Memory Programming	4
25	12/11	10 Shared-Memory Programming	4