



CSci 493.65 Syllabus

The following table outlines the chapters and topics that we will cover during the semester. As this is the first time this course is being taught, the exact timing is just a rough guess on my part and we may deviate from this plan. You are expected to read the material in the given chapter before the class in which it is covered, so that you are prepared for the class.

Date	Chapter, General Topic	Notes
Mon, 01/27	1 Motivation and History of Parallel Computing	
Thu, 01/30	2 Parallel architectures	
Mon, 02/03	2 Parallel architectures	
Thu, 02/06	3 Parallel Algorithm Design	
Mon, 02/10	3 Parallel Algorithm Design	
Thu, 02/13	3 Parallel Algorithm Design	
Mon, 02/17		No class
Thu, 02/20	4 Message-Passing Programming	(Monday schedule)
Mon, 02/24	4 Message-Passing Programming	
Thu, 02/27	4 Message-Passing Programming	
Mon, 03/03	6 Floyd's Algorithm	
Thu, 03/06	6 Floyd's Algorithm	
Mon, 03/10	7 Performance Analysis	
Thu, 03/13	7 Performance Analysis	
	8 Matrix-Vector Multiplication	
Mon, 03/17	8 Matrix-Vector Multiplication	
Thu, 03/20	8 Matrix-Vector Multiplication	
	10 Monte Carlo Methods	
Mon, 03/24	10 Monte Carlo Methods	
Thu, 03/27	10 Monte Carlo Methods	
	12 Solving Linear Systems	
Mon, 03/31	12 Solving Linear Systems	
Thu, 04/03	12 Solving Linear Systems	
Mon, 04/07	13 Finite Difference Methods	
Thu, 04/10	13 Finite Difference Methods	
Mon, 04/14		No class
Thu, 04/17		No class
Mon, 04/21		No class
Thu, 04/24	13 Finite Difference Methods, 14 Sorting	Last day to withdraw
Mon, 04/28	14 Sorting	
Thu, 05/01	14 Sorting	
	17 Shared-Memory Programming	
Mon, 05/05	17 Shared-Memory Programming	
Thu, 05/08	17 Shared-Memory Programming	
Mon, 05/12	18 Combining MPI and OpenMP	
Thu, 05/15	18 Combining MPI and OpenMP	