

		Monday	Wednesday	Friday
1	September	30	1	3
		Introduction to shared memory model, transition systems		
	Topics	Intro	Shared Memory	Shared Memory
	Slides	01	01	01
	Exercise Booklet	01	01	01
	Assignments			HW1 (threads)
	Reading			
	Quiz			
2		Labor Day - No classes	8	10
		Critical Section and Mutual Exclusion		
	Topics		Critical Section and Mutual Exclusion	Critical Section and Mutual Exclusion
	Slides	02	02	02
	Exercise Booklet	02	02	02
	Assignments			HW1 due / HW2 (semaphores)
	Reading			
	Quiz		Q1	
3		13	15	17
		Semaphores		
	Topics	Atomic actions	Semaphores	Semaphores
	Slides	03	04	04
	Exercise Booklet	03	04	04
	Assignments			
	Reading			
	Quiz		Q2	
4		20	22	24
		Patterns with Semaphores: Readers/Writers, Unbounded buffers, Producers/Consumers		
	Topics	Producers/Consumers	Readers/Writers	Semaphores: restroom example
	Slides	04	05	05
	Exercise Booklet	04	05	05
	Assignments			HW2 due/ HW3 (monitors)
	Reading			
	Quiz			
5	October	27	29	1
		Monitors		
	Topics	Semaphores: another example	Monitors	Monitors
	Slides	05	06	06
	Exercise Booklet	05	06	06
	Assignments			
	Reading			
	Quiz		Q3	
6		4	6	8
		Monitors		
	Topics	Monitors: An example	Quiz	Monitors: signal and continue and monitors in Java
	Slides	06	06	
	Exercise Booklet	06	06	
	Assignments			HW3 due
	Reading			
	Quiz		Q4	
7		11(Fall Recess -No Classes) Tuesday 12 -	13	15
		Review and Midterm		
	Topics	Monitors: An example	Review	Midterm
	Slides			
	Exercise Booklet			
	Assignments			
	Reading			
	Quiz		Q5	
8		18	20	22
		Message Passing		
	Topics	Erlang: Sequential Fragment	Erlang: Sequential Fragment	Erlang: Sequential Fragment - Examples
	Slides	07	07	07
	Exercise Booklet	07	07	07
	Assignments			HW4 (sequetial erlang)
	Reading			
	Quiz		Q6	
9		25	27	29
		Erlang		

	Topics	Exercises in Class	Quiz	Typing in Erlang
	Slides	07	07	07
	Exercise Booklet	07	07	07
	Assignments			HW4 due/ HW5 (concurrent erlang)
	Reading			
	Quiz		Q7	
10	November	1	3	5
		Erlang		
	Topics	Erlang: Concurrency	Erlang: Concurrency	Erlang: Concurrency - Examples
	Slides	08	08	08
	Exercise Booklet			
	Assignments			
	Reading			
	Quiz		Q8	
11		8	10	12
		Erlang		
	Topics	Erlang: Client-Server	Erlang: Concurrent Patterns	Erlang: Concurrent Patterns
	Slides			
	Exercise Booklet	08	08	08
	Assignments			HW5 due
	Reading			
	Quiz		Q9	
12		15	17	19
		Model Checking		
	Topics	Model Checking	Promela and Spin	Promela and Spin
	Slides			
	Exercise Booklet	09	09	09
	Assignments			HW6 (model-checking)
	Reading			
	Quiz		Q10	
13		22	24	26
		Model Checking		
	Topics	Foundations of Model Checking	Thanksgiving recess	
	Slides			
	Exercise Booklet			
	Assignments			
	Reading			
	Quiz		Q11	
14	December	29	1	3
		Model Checking		
	Topics	Foundations of Model Checking	Foundations of Model Checking	Foundations of Model Checking
	Slides			
	Exercise Booklet			
	Assignments			HW6 due
	Reading			
	Quiz		Q12	
15		6	8	10
	Topics	Foundations of Model Checking	Endterm	Solution to endterm
	Slides			
	Exercise Booklet			
	Assignments			
	Reading			
	Quiz			
		Finals: 11 - 21 December		