

Concurrent Systems	
1. Introduction and overview Concurrency in and supported by OS. Thread models.	
2. Shared memory – low level concurrency control	
 Shared memory – high-level language concurrency control Lock-free programming, if time allows (not to be examined) 	
4. Inter-process communication with no shared memory	
5. Liveness properties – Deadlock	
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6. Transactions: composite operations on persistent objects (<i>Thurs. Oct 23rd</i>)	
7. Concurrency control and recovery for transaction systems	
* (8). FreeBSD case study will be given <i>Weds Oct 22nd (TBC)</i> by Dr Watson	
Introduction 2	











Need for concurrency control in Operating Systems	
Concurrency control was first studied for OS and later for programming languages. Let's see where concurrency occurs in OS and how problem might arise.	S
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