

**COMP3301/COMP7308 Weekly Outline 2009**  
**REVISED 4th September 2009**

Week	Topic	Labs, etc.	References
1 (31/7)	Operating System Fundamentals, MINIX3	No prac session	TW: Chapter 1
2 (7/8)	Processes, Processes in MINIX 3	Prac 2: Recompiling, patches, system calls <i>Tut1 discussed</i>	TW: 2.1, 2.2 TW: 2.5
3 (14/8)	Processes: Synchronisation & Scheduling; MINIX System Calls	Prac 3: Trapping and kernel calls <i>Tut2 discussed</i>	TW: 2.3, 2.4 TW: 2.6, 2.7, 2.8
4 (21/8)	No lecture	Lab sessions for Assignment consultation.	
5 (28/8)	I/O Hardware I/O Software	Lab sessions for Assignment consultation. <i>Tut3 discussed</i>	TW: 3.1, 3.2 TW: 3.4
6 (4/9)	Deadlock Disks	Prac 4: Device driver - creating new memory device <i>Tut4 discussed</i> <b>ASSIGNMENT ONE DUE 4/9</b>	TW: 3.3 TW: 3.5-3.8
7 (11/9)	GUEST LECTURE: "Device Content Management" - Sarah Smith, Snr SW Engineer, Qt Software (Nokia)	Prac 5: Process manager	
8 (18/9)	Memory Management Swapping Virtual memory Segmentation  Minix Process Manager	Lab sessions for Assignment consultation. <i>Tut 5 discussed</i>	TW: 4.1-4.6 TW: 4.7,-4.8
9 (25/9)	File Systems Directories FS Implementation	Lab sessions for Assignment consultation. <i>Tut 6 Discussed</i> <b>ASSIGNMENT TWO DUE 25/9</b>	TW 5.1, 5.2, 5.3.1-5.3.4
10 (9/10)	File Systems – Reliability, Performance Implementation of MINIX3 File System	Prac 6: File System <i>Tut 7 discussed</i>	TW 5.3.5-7 TW 5.6-5.7
(2/10)	Mid-semester Lecture Break		

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11 (15/10)	GUEST LECTURER – To be confirmed	Lab sessions for Assignment consultation.	
12 (23/10)	Real-time Operating Systems concepts	Lab sessions for Assignment consultation. <i>Tut 8 Discussed</i>	
13 (30/10)	OS Issues in Security  Course Review  Exam Discussion	Lab sessions for Assignment consultation. <b>ASSIGNMENT THREE DUE 30/10</b>	TW 5.4-5.5
7/11 - 21/11	1 hr FINAL EXAM, Yet to be scheduled.		

Abbreviations

**TW:** Textbook, Andrew S Tanenbaum, Albert S Woodull, *Operating Systems: Design & Implementation*, 3<sup>rd</sup> Edition, Prentice Hall, 2006.