

Course Schedule - CPSC 213 - Winter 2023 Term 2

Week	Dates	Monday	Wednesday	Friday	Labs (1hr in-lab)	Assignments	Quiz (during week)
1	Jan.08-Jan.12	0: Intro	1a: Memory and numbers	1a: Endianness	No lab	None	
2	Jan.15-Jan.19	1a: Alignment and shifting	1b: CPU and registers	1b: Global statics	1: Numbers and memory	1: Numbers and memory	
3	Jan.22-Jan.26	1b: ISA for variables	1b: Dynamic arrays and pointers	1b: Pointers	2: CPU and static variables	2: CPU and static variables	
4	Jan.29-Feb.02	1c: Structs	1c: Structs and dynamic allocation	1c: Dynamic allocation	3: Dynamic arrays and C pointers	3: Dynamic arrays and C pointers	
5	Feb.05-Feb.09	1c: Memory management	1c: Reference counting	1d: Control flow introduction	4: Structs and dynamic allocation	4: Structs and dynamic allocation	Q1: L1-3; A1-3
6	Feb.12-Feb.16	1d: If statements and loops	1d: Loops1e: Procedure calls	1e: Procedure calls	5: Memory management	5: Memory management	
7	Feb.19-Feb.23	Reading week - no class			No lab	None	
8	Feb.26-Mar.01	1e: Local variables and arguments	1e: Procedure calls and the stack	1e: Stack smash	6: Ref counting and static control flow	6: Ref counting and static control flow	
9	Mar.04-Mar.08	1f: Polymorphism	1f: Function pointers as parameters	1f: Map/reduce	7: Procedure calls and the stack	7: Procedure calls and the stack	Q2: L4-6; A4-6
10	Mar.11-Mar.15	1f: Switch statements	2a: PIO, DMA, interrupts	2a: Asynchrony	8: Dynamic control flow	8: Dynamic control flow	
11	Mar.18-Mar.22	2b: Threads	2b: Threads	2b: Asynchrony and scheduling	No lab	9: IO and asynchrony	
12	Mar.25-Mar.29	2c: Races and mutual exclusion	2c Atomicity and spinlocks	Good Friday	9: IO and asynchrony	9: IO and asynchrony	Q3: L7-8; A7-8; lightly L9/A9
13	Apr.01-Apr.05	Easter Monday	2c: Mutex and condition variables	2c: Mutex and condition variables	9: IO and asynchrony (Friday)	10: Threads and synchronization	
14	Apr.08-Apr.12	2c: Semaphores	2c: Semaphores and deadlock	2c: Semaphores and deadlock	10: Threads and synchronization	10: Threads and synchronization	