

CS2106 Course Info Screenshot

CS2106

Introduction to Operating Systems

Computer Science • Computing • 4 Units
Semester 1 • Semester 2

This course introduces the basic concepts in operating systems and links it with contemporary operating systems (eg. Unix/Linux and Windows). It focuses on OS structuring and architecture, processes, memory management, concurrency and file systems. Topics include kernel architecture, system calls, interrupts, models of processes, process abstraction and services, scheduling, review of physical memory and memory management hardware, kernel memory management, virtual memory and paging, caches, working set, deadlock, mutual exclusion, synchronisation mechanisms, data and metadata in file systems, directories and structure, file system abstraction and operations, OS protection mechanisms, and user authentication.

Prerequisite
If undertaking an Undergraduate Degree THEN(must have completed 1 of **CS2100/CS2100DE/EE2007/EE2024/EE2028** at a grade of at least D)

Preclusion
If undertaking an Undergraduate Degree THEN(must not have completed 1 of **CG2271/EE4214** at a grade of at least D OR(must not be undertaking 2001CEGHON Bachelor of Engineering (Computer Engineering) (Hons))

Additional Information
✓ Included in Semester 1's Course Planning Exercise
✓ Included in Semester 2's Course Planning Exercise

Workload - 10 hrs

Lec	Tut	Lab	Preparation	6 hrs
2	1	1	6	6 hrs

Grading Basis
Graded

Semester 1 Exam
26-Nov-2025 5:00 PM • 2 hrs

Semester 2 Exam
30-Apr-2026 1:00 PM • 2 hrs

[Add to Semester 2](#) ▾

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For clarifications on how we handle issues, read our [FAQ](#).