COURSE DETAIL

OPERATING SYSTEMS
Country United Kingdom - England
Host Institution Imperial College London
Program(s) Imperial College London
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 122
UCEAP Course Suffix
UCEAP Official Title OPERATING SYSTEMS
UCEAP Transcript Title OPERATING SYSTEMS
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description
This course explores the basic principles used in the design of modern operating systems. It examines device and I/O management functions in operating systems as part of a uniform device abstraction as well as disk organization and file system structure. Students are able to give the rationale for virtual memory abstractions in operating systems and understand the main principles and techniques used to implement processes and threads as well as the different algorithms for process scheduling. In addition, they understand the main mechanisms used for inter-process communication and understand the main problems related to concurrency and the different synchronization mechanisms available. Student gain the ability to evaluate security risks in operating systems and understand the role operating systems can and should play in establishing security.

Language(s) of Instruction
English

Host Institution Course Number
CO211

Host Institution Course Title
OPERATING SYSTEMS

Host Institution Course Details
http://www.imperial.ac.uk/computing/current-students/courses/211/

Host Institution Campus
Imperial College London

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computing

Course Last Reviewed

2018-2019

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