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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