COURSE DETAIL

ADVANCED COMPUTER SYSTEMS

Country Denmark

Host Institution University of Copenhagen

Program(s) University of Copenhagen

UCEAP Course Level Upper Division

UCEAP Subject Area(s) Computer Science

UCEAP Course Number 147

UCEAP Course Suffix

UCEAP Official Title ADVANCED COMPUTER SYSTEMS

UCEAP Transcript Title ADV COMP SYSTEMS

UCEAP Quarter Units 6.00

UCEAP Semester Units 4.00

Course Description

This course offers an understanding of techniques in computer systems with a focus on correctness and adherence to system properties, such as modularity and atomicity, while at the same time achieving high performance. It highlights various system mechanisms, especially from distributed systems, database systems, and network systems. Topics include system abstractions and design principles; modularity with clients and services; performance; atomicity and transactions; concurrency control and recovery; reliability, fault-tolerance, and redundancy; distributed protocols for replication; and large-scale data processing. Prerequisites include basic principles of operating systems and/or databases and working knowledge of a standard programming language (Java, C#), including concurrency and communication mechanisms.

Language(s) of Instruction

English

Host Institution Course Number NDAK15006U

Host Institution Course Title ADVANCED COMPUTER SYSTEMS

Host Institution Campus

Host Institution Faculty Science

Host Institution Degree

Master

Host Institution Department Computer Science

<u>Print</u>