
CSE 452 Introduction to Distributed Systems

Credits

4.0 (3 hrs lecture, 1 hr section)

Lead Instructor

Thomas Anderson

Textbook

None

Course Description

Covers abstractions and implementation techniques in the construction of distributed systems, including cloud computing, distributed storage systems, and distributed caches.

Prerequisites

either CSE 444, CSE 451, or CSE 461.

CE Major Status

Selected Elective

Course Objectives

Give students a working knowledge of the principles, design issues, and algorithms underlying distributed systems. Build programming experience through a sequence of targeted distributed system projects.

ABET Outcomes

N/A

Course Topics

Client server computing, the web, cloud computing, peer-to-peer systems, and distributed storage systems.

Remote procedure call, preventing and finding errors in distributed programs, maintaining consistency of distributed state, fault tolerance, high availability, distributed lookup, and distributed security.