

# COURSE DETAIL

## COMPUTER NETWORKS

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Electrical Engineering

**UCEAP Course Number**

142

**UCEAP Course Suffix****UCEAP Official Title**

COMPUTER NETWORKS

**UCEAP Transcript Title**

COMPUTER NETWORKS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course provides an in-depth treatment of fundamental topics of network design based on the Internet protocol stack model. It introduces how networks work through understanding of the underlying principles of sound network design. This course covers topics including network requirements, architecture, protocol stack models, Ethernet Token Ring, Wireless, and FDDI networks, bridges, switching and routing in IP and ATM networks, and internetworking. Apart from learning the concepts in networks, the students gain expertise in analyzing and designing networking protocols through mini-projects. The course requires students to take prerequisites.

## Language(s) of Instruction

English

## Host Institution Course Number

EE4204

## Host Institution Course Title

COMPUTER NETWORKS

## Host Institution Course Details

<https://nusmods.com/courses/EE4204/computer-networks>

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Electrical & Computer Engineering

## Course Last Reviewed

2024-2025

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