

# COURSE DETAIL

## COMMUNICATIONS

**Country**

United Kingdom - England

**Host Institution**

Imperial College London

**Program(s)**

Imperial College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Electrical Engineering

**UCEAP Course Number**

127

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

COMMUNICATIONS

**UCEAP Transcript Title**

COMMUNICATIONS

**UCEAP Quarter Units**

7.50

**UCEAP Semester Units**

5.00

## Course Description

This course takes students through the idea of transmitting information from one point to another in the presence of noise. The course introduces students to both analogue and digital transmission, show how the two are connected, and explain the differences (e.g. signal-to-noise ratio vs. bit error rate). The course also introduces students to information theory, and the fundamental theoretical limits of compression and channel coding it identifies.

### Language(s) of Instruction

English

### Host Institution Course Number

ELEC50002

### Host Institution Course Title

COMMUNICATIONS

### Host Institution Course Details

[https://intranet.ee.ic.ac.uk/electricalengineering/eecourses\\_t4/course\\_content...](https://intranet.ee.ic.ac.uk/electricalengineering/eecourses_t4/course_content...)

### Host Institution Campus

Kensington

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Department of Electrical Engineering

### Course Last Reviewed

2022-2023

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