

# COURSE DETAIL

## FOURIER ANALYSIS

**Country**

United Kingdom - England

**Host Institution**

King's College London

**Program(s)**

King's College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

152

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

FOURIER ANALYSIS

**UCEAP Transcript Title**

FOURIER ANALYSIS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## **Course Description**

The course introduces the notions of Fourier series and Fourier transform and to study their basic properties. The course is devoted to the one dimensional case in order to simplify the definitions and proofs. Many multidimensional results are obtained in the same manner, and those results may also be stated. The Fourier technique is important in various fields, in particular, in the theory of (partial) differential equations. It is explained how one can solve some integral and differential equations and study the properties of their solutions using this technique.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

6CCM318A

### **Host Institution Course Title**

FOURIER ANALYSIS

### **Host Institution Course Details**

<https://www.kcl.ac.uk/abroad/module-options/fourier-analysis-3>

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Mathematics

### **Course Last Reviewed**

2023-2024

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