COURSE DETAIL

GEOMETRY OF SURFACES

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
146

UCEAP Course Suffix

UCEAP Official Title
GEOMETRY OF SURFACES

UCEAP Transcript Title
GEOMETRY OF SURFACE

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course looks at definition of a curve, arc length, curvature, and torsion of a curve, Frenet-Serret equations. It also looks at definition of a surface patch, first and second fundamental forms, isometries, conformal maps, area, Gaussian curvature, mean curvature, principal curvatures, Gauss map, geodesics, and Theorema Egregium.

Language(s) of Instruction
English

Host Institution Course Number
5CCM223A

Host Institution Course Title
GEOMETRY OF SURFACES

Host Institution Course Details
https://www.kcl.ac.uk/abroad/module-options/geometry-of-surfaces-1

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

Course Last Reviewed
2024-2025

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