

COURSE DETAIL

INTRODUCTION TO DIFFERENTIAL GEOMETRY

Country

Ireland

Host Institution

University College Cork

Program(s)

University College Cork

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

105

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTION TO DIFFERENTIAL GEOMETRY

UCEAP Transcript Title

DIFFERENTL GEOMETRY

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course introduces students to concepts of differential geometry. Topics include basic differential geometry concepts and techniques such as differential manifolds and submanifolds; tangent and normal bundles; Riemannian metric, curvatures, and geodesics, with emphasis on the cases of curves and surfaces; differentiable maps; geometric aspects of the theory of differential equations; symplectic geometry; and homogeneous spaces.

Language(s) of Instruction

English

Host Institution Course Number

MA3063

Host Institution Course Title

INTRODUCTION TO DIFFERENTIAL GEOMETRY

Host Institution Campus

University College Cork

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Mathematics

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