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 Course Details
https://www.ucc.ie/admin/registrar/archive/20172018/modules/descriptions/page04...

Host Institution Campus
University College Cork

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

Course Last Reviewed
2019-2020

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