COURSE DETAIL

DIFFERENTIAL FORMS

Country
Ireland

Host Institution
University of Galway

Program(s)
University of Galway

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mathematics

UCEAP Course Number
104

UCEAP Course Suffix

UCEAP Official Title
DIFFERENTIAL FORMS

UCEAP Transcript Title
DIFFERENTIAL FORMS

UCEAP Quarter Units
4.00

UCEAP Semester Units
2.70

Course Description

The course explains Stokes' formula. The formula is best explained using the differential forms language of Élie Cartan. The course covers the case p=0 (8 lectures), the case p=1 (8 lectures), the case p= 2 (8 lectures), and explains how Stokes' formula can be applied to the usual problems of multivariate calculus, financial mathematics, and electromagnetism.

Language(s) of Instruction

English

Host Institution Course Number

MA2286

Host Institution Course Title

DIFFERENTIAL FORMS

Host Institution Campus

NUI Galway

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

[Print](#)