

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 Course Details

<http://www.maths.nuigalway.ie/~mstudies/MA2286/index.shtml>

Host Institution Campus

NUI Galway

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

Mathematics

Course Last Reviewed

2018-2019

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