



## MATH2200 Infinitesimal analysis (complements)

[45h] 5 credits

This course is taught in the 2nd semester

**Teacher(s):** Thierry De Pauw, Thierry De Pauw  
**Language:** French  
**Level:** Second cycle

### Aims

To give a more advanced formation in the field of mathematical analysis.

### Main themes

The course starts with an introduction to geometric measure theory. Its content will vary from year to year. For example, it can be based on some of the following subjects:

Differentiation of measures

Approximation of functions by regular functions

Area and coarea

Rectifiability

Introduction to Plateau problems

Regularity of Lipschitzian solutions of the minimal surface equation.

### Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Prerequisites: MATH 2110.

Support: reference books: Bonsall F.F. et Ducan J., Numerical ranges of operators; Kadison R.V. et Ringrose J.R., Fundamentals of the Theory of Operator Algebras.

### Other credits in programs

**MATH22/G**      Deuxième licence en sciences mathématiques      (5 credits)