



Faculté des sciences

SC

GEOG1150 Cartographie et éléments d'analyse des données spatiales

[30h+30h exercices] 5 credits

This course is taught in the 2nd semester

Teacher(s): Dominique Peeters, Isabelle Thomas
Language: french
Level: 1st cycle course

Aims

To learn to draw a thematic map.
 To learn to use a mapping software
 To learn to use a map as a scientific tool for modelling and for decision making.

Main themes

Introduction to the theory / methods for analysing spatial data and for thematic mapping. Exploratory spatial data analysis.

Content and teaching methods

1. Map and geographical analysis. Data acquisition and data types. Graphical elements of the map (title, legend, orientation, colour, direction, raster, etc.). Cartographic and geographical information systems. Elementary statistics and graphs.
2. Which map for which data ?
 - Points, lines and surfaces.
 - Nominal, ordinal and cardinal variables
 - Symbol maps, Choropleth and choromatic maps. Classification methods.
3. Specific maps : mapping fluxes, cartograms, anamorphoses, 3D mapping, etc.
4. Comparing maps : proposals for solutions
5. Conclusion : advantages and limits of the map.

Other credits in programs

GEOG12	Deuxième candidature en sciences géographiques	(5 credits)	Mandatory
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