



# Faculté des sciences économiques, sociales et politiques

## ESPO

### DEMO3428 Dynamic of populations and of households. Demographic forecasting and perspective methodology

[20h] 3 credits

**Teacher(s):** Bruno Schoumaker  
**Language:** french  
**Level:** 3rd cycle course

#### Aims

To understand and reconstitute the dynamic of populations in space and time, while taking interaction of the phenomena into account. Scale: national, regional and local populations; observation unit: the household and the individual (micro-simulations). Forward-looking reflection aimed at developing hypotheses and the putting in place of scenarios. Measuring uncertainty.

#### Main themes

A comparison of currently used definitions and approaches, with a brief history of demographic perspectives and a critical analysis of the "ex-post" outcomes of earlier perspectives.  
 The basic principles of the method of demographic components and their application to substantive cases. A regional matricial analysis. Projections in respect of households and micro-populations. Elements of sectoral perspectives.

#### Content and teaching methods

Principles and methods illustrated by animated software where students may observe the dynamic transformations of departure-structures, depending on the choice of scenarios and use of scenarios. Work on spreadsheets and with the help of simulation software.

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

Assessment: A complete population perspective (subject to be chosen together with Course DEMO 3485).  
 Pre-requirement: Course DEMO 3426 ("Demographic analysis: mortality, fertility, migration and structures").

#### Other credits in programs

<b>DEMO3DA</b>	Diplôme d'études approfondies en démographie	(3 credits)	Mandatory
<b>DEMO3DS</b>	Diplôme d'études spécialisées en populations et sociétés	(3 credits)	Mandatory