



SC

MATH2370 Théorie des jeux

[22.5h] 2 credits

This course is taught in the 1st semester

**Teacher(s):** Jean-François Mertens  
**Language:** french  
**Level:** 2nd cycle course

**Aims**

Introduction to the mathematical theory of games.

**Main themes**

The course aims to introduce the basic concepts and mathematical techniques in game theory. In order to do so, a first part will be for non-cooperative theory (extensive form and normal form, minimax and Nash theorems, balance concept critic). A second part will introduce to the methodology and to the concepts of the cooperative theory, including a few typical applications like problems of allocation of costs and election games. A last part will go towards more advanced questions, going along with the auditorium's interests.

**Other credits in programs**

<b>MAP23</b>	Troisième année du programme conduisant au grade d'ingénieur civil en mathématiques appliquées	(2 credits)
<b>MATH22/G</b>	Deuxième licence en sciences mathématiques	(2 credits)