



## MATH2230 Algebraical topology

[45h] 5 credits

This course is taught in the 1st semester

**Teacher(s):** Yves Félix, Pascal Lambrechts  
**Language:** French  
**Level:** Second cycle

### Aims

Description and use of homotopy (fundamental group) and of homology.

### Main themes

The course gives the introduction to two fundamental tools of algebraic topology: the fundamental group and the singular homology of spaces. Emphasis is put on the explicit calculation and on the applications.

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

Prerequisites: none.

Reference books: Godbillon, Topologie algébrique, Hermann; Munkres, Elements of Algebraic Topology, Benjamin; Felix, Introduction à la Topologie Algébrique, CIACO.

### Other credits in programs

<b>MAP22</b>	Deuxième année du programme conduisant au grade d'ingénieur civil en mathématiques appliquées	(5 credits)
<b>MAP23</b>	Troisième année du programme conduisant au grade d'ingénieur civil en mathématiques appliquées	(5 credits)
<b>MATH22/G</b>	Deuxième licence en sciences mathématiques	(5 credits)