



SC

MATH2230 Topologie algébrique

[45h] 5 credits

This course is taught in the 1st semester

**Teacher(s):** Yves Félix, Pascal Lambrechts  
**Language:** french  
**Level:** 2nd cycle course

### 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 credits in programs

|                 |   |             |
|-----------------|---|-------------|
| <b>MAP22</b>    | Deuxième année du programme conduisant au grade d'ingénieur civil en mathématiques appliquées | (5 credits) |
| <b>MATH22/E</b> | Deuxième licence en sciences mathématiques (Economie mathématique)                            | (5 credits) |
| <b>MATH22/G</b> | Deuxième licence en sciences mathématiques  | (5 credits) |
| <b>MATH22/S</b> | Deuxième licence en sciences mathématiques (Statistique)                                      | (5 credits) |