

Plan d'études

Mathématiques 2024-25

Bloc "Sciences de base"

| Cours | | | | Bachelor 3 | Bachelor 4 | Bachelor 5 | Bachelor 6 | Session Examen | Examen | Crédits | | |
|-------|--|-------|-------------|------------|------------|------------|------------|----------------|--------|---------|-------|---|
| Lang. | Code | Sect. | Enseignants | C | E | L | T | P | I | | | |
| | Advanced numerical analysis I | | | | | | | | | | | |
| E | MATH-250 | MA | Kressner | | 2h | 2h | | | | Eté | Ecrit | 5 |
| | Algebra II - groups | | | | | | | | | | | |
| E | MATH-211 | MA | Negut | 2h | 2h | | | | | Hiv | Ecrit | 5 |
| | Algèbre III - anneaux et corps | | | | | | | | | | | |
| F | MATH-215 | MA | Patakfalvi | | 2h | 2h | | | | Eté | Ecrit | 5 |
| | Analyse III - analyse complexe, champs vectoriels | | | | | | | | | | | |
| F | MATH-200 | MA | Hongler | 4h | 3h | | | | | Hiv | Ecrit | 9 |
| | Analysis IV - Lebesgue measure, Fourier analysis | | | | | | | | | | | |
| E | MATH-205 | MA | Colombo | | 3h | 2h | | | | Eté | Ecrit | 7 |
| | Discrete optimization | | | | | | | | | | | |
| E | MATH-261 | MA | Eisenbrand | | 2h | 2h | | | | Eté | Ecrit | 5 |
| | Géométrie différentielle I - courbes et surfaces | | | | | | | | | | | |
| F | MATH-213 | MA | Troyanov | 3h | 3h | | | | | Hiv | Ecrit | 5 |
| | Probabilités | | | | | | | | | | | |
| F | MATH-230 | MA | Aru | 2h | 2h | | | | | Hiv | Ecrit | 5 |
| | Statistique | | | | | | | | | | | |
| F | MATH-240 | MA | Panaretos | | 2h | 2h | | | | Eté | Ecrit | 5 |
| | Topologie II - groupes fondamentaux | | | | | | | | | | | |
| F | MATH-225 | MA | Wyss | | 2h | 2h | | | | Eté | Ecrit | 5 |
| | Topology I - point set topology | | | | | | | | | | | |
| E | MATH-220 | MA | Zanardini | 2h | 2h | | | | | Hiv | Ecrit | 5 |

Bloc transversal SHS

| Cours | | | | Session Examen | Examen | Crédits |
|-------|---------------------------------------|-------|-------------|----------------|--------|---------|
| Lang. | Code | Sect. | Enseignants | | | |
| | SHS + MGT : Cycle Bachelor BA3 | | | | | |
| F | | SHS | | | | 2 |
| | SHS + MGT : Cycle Bachelor BA6 | | | | | |
| F | | SHS | | | | 2 |
| | SHS + MGT : Cycle Bachelor BA5 | | | | | |
| F | | SHS | | | | 2 |
| | SHS + MGT : Cycle Bachelor BA4 | | | | | |
| F | | SHS | | | | 2 |

Groupe "Branches de semestre"

| Cours | | | | Bachelor 3 | Bachelor 4 | Bachelor 5 | Bachelor 6 | Session Examen | Examen | Crédits | | |
|-------|---|-------|--------------|------------|------------|------------|------------|----------------|--------|---------------|------------------------|--|
| Lang. | Code | Sect. | Enseignants | C | E | L | T | P | I | | | |
| | Projet de Mathématiques (bachelor) | | | | | | | | | | | |
| F | MATH-397 | MA | Profs divers | | | | | 12h | | 12hEté Hiv | Pendant le 12 semestre | |

Groupe "Cours à option"

| | | | | | | | | |
|---|---|----|-------------------|--|-------|-----|-------|---|
| | Randomization and causation | | | | | | | |
| E | MATH-336 | MA | Stensrud | | 2h 2h | Eté | Ecrit | 5 |
| | Representation theory I - finite groups | | | | | | | |
| E | MATH-314 | MA | Lachowska | | 2h 2h | Hiv | Ecrit | 5 |
| | Representation Theory II - Lie groups and algebras | | | | | | | |
| E | MATH-429 | MA | Negut | | 2h 2h | Eté | Ecrit | 5 |
| | Risk and environmental sustainability | | | | | | | |
| E | MATH-383 | MA | Davison Mhalla | | 2h 2h | Eté | Ecrit | 5 |
| | Time series | | | | | | | |
| E | MATH-342 | MA | Olhede | | 2h 2h | Eté | Ecrit | 5 |
| | Topics in complex analysis | | | | | | | |
| E | MATH-327 | MA | Braun | | 2h 2h | Hiv | Ecrit | 5 |
| | Topological groups | | | | | | | |
| E | MATH-338 | MA | Monod | | 2h 2h | Eté | Ecrit | 5 |
| | Topology III - Homology | | | | | | | |
| E | MATH-323 | MA | Monin | | 2h 2h | Eté | Ecrit | 5 |