

Research Master - M2
Mathematics and Applications
2026-2027

| Semester 3 | Course | | | |
|-------------------|--|---|----------------|--------------|
| | Code | Title | Credits | Hours |
| | Common Part | | | |
| | RMSE 500 | Research Methodology and Scientific English | 2 | 24 |
| | Fundamental courses | | | |
| | MIAP 500 | Mathematical modelling | 5 | 35 |
| | MIAP 501 | Statistics, probabilities and combinatorics | 5 | 35 |
| | MIAP 503 | Nonlinear evolution problems | 5 | 35 |
| | Specialised courses (à choisir 4 parmi 5) | | | |
| | MIAP 510 | Geometrical tools | 3 | 21 |
| | MIAP 511 | Calculus of variations and optimization | 4 | 28 |
| | MIAP 513 | Spectral theory and inverse problems | 3 | 21 |
| | MIAP 515 | Numerical schemes | 3 | 21 |
| | MIAP 516 | Convex analysis and symmetric functions | 3 | 21 |
| | Total | | 30 | 220 |

| Semester 4 | Course | | | |
|-------------------|---------------|----------------------|----------------|--------------|
| | Code | Title | Credits | Hours |
| | MIAP 580 | Master Thesis | 30 | |
| | Total | | 30 | |