**Curriculum**

The Section of Mathematics proposes two directions: the "research" direction (R) comprises advanced courses which allow a specialization in the chosen area of research; the "general" direction (G) allows an expansion of the education by choosing optional courses provided by other sections and departments of the University.

<table>
<thead>
<tr>
<th>3 semesters (max 6 semesters)</th>
<th>90 credits*</th>
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</thead>
<tbody>
<tr>
<td><strong>Compulsory and optional teaching</strong></td>
<td>60 credits</td>
</tr>
<tr>
<td>Advanced or optional courses</td>
<td>40 credits</td>
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<tr>
<td>Hopf algebras, Tropical geometry, Probability theory, Numerical analysis, History and philosophy of science, Econometrics, etc.</td>
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<tr>
<td>Seminars</td>
<td>10 credits</td>
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<tr>
<td>Algebra, geometry and combinatorics, Numerical analysis, Mathematical physics, etc.</td>
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<tr>
<td>Reading course</td>
<td>10 credits</td>
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<tr>
<td>allows the students to start their specialization in the area chosen for their master thesis</td>
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<tr>
<td><strong>Master thesis</strong></td>
<td>30 credits</td>
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</table>

* ECTS (European Credit Transfer and Accumulation System) credits: a measure of the work required for a given programme. One semester equals 30 ECTS credits. One credit corresponds to 25-30 hours of work. ECTS enables students to move from one European university to another.

**Teaching language:** French and English, limited knowledge of French may be sufficient

**Criteria for admission:** Bachelor in Mathematics or Bachelor in Mathematics and Computer Science, or a degree considered equivalent

**Tuition fee:** CHF 500 per semester

**Contacts**

**Academic advisors**

- **Faculty of Sciences**
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  - secretariat-math@unige.ch

**Deadline:** April 30

**Conditions of enrolment**

www.unige.ch/immat

**www.unige.ch/math**
Masters of Science

The Masters program of the internationally top-ranked Faculty of Sciences constitutes an ideal entry point for professional and academic careers. They cover a broad range of scientific disciplines: Mathematics, Computer Science, Physics, Chemistry, Biochemistry, Biology, Prehistoric Archaeology, Geology, Environmental Science, Pharmacy, Neuroscience and Proteomics and Bioinformatics.

Objectives of the education

The Masters program offered by the Section of Mathematics trains its students to work independently and gives them sufficient impulse to start off their mathematical career. In order to do so, the program requires the students to develop their analytic capacities and their ability to formulate problems mathematically, providing them with theoretical and computational methods that are needed to solve the problems they encounter. The program also trains them to verify the results by approximation.

The principal research domains of the Section of Mathematics of the University of Geneva are:

- Algebra and geometry
- Analysis, mathematical physics and probability
- Numerical analysis

Career opportunities

The Masters degree in Mathematics leads to multiple possibilities in and outside Switzerland:

- Academic research (PhD, post-doctoral studies)
- Teaching
- Applied research
- Telecommunications
- Insurance companies
- Banks and financial companies
- Pharmaceutical industry
- Consulting

In addition to careers in teaching and research, there is also significant demand for Masters graduates in the private sector, not only for their mathematical skills, but also for their ability to develop specialized method for analyzing and solving practical problems in a logical and creative way.

Fellowship

The Faculty of Sciences, in collaboration with several sponsors, has established an Excellence Fellowship Program to support outstanding and highly motivated candidates who intend to pursue a Master of Science in any of the disciplines covered by the Faculty. Admission criteria can be consulted on our website. French proficiency is not a formal requirement for the Masters of the Faculty of sciences.

Application for an Excellence Fellowship is open to students from any university with very good performance in their studies (belonging to the top 10% of their bachelor’s program) and who have completed the Bachelor degree or expect to complete it within 6 months. Selection of the applicants will be based on excellence. Evaluation will be made on the basis of the documentation sent by the applicants.

Additional information is available at www.unige.ch/sciences/Masters.