



ESO/L. Calçada

DURATION OF STUDIES

2 years (4 semesters)

LANGUAGE OF INSTRUCTION

English

ADMISSION CONDITIONS

A Bachelor in Physics, or an equivalent degree.

Master's Programme

THE MASTER IN ASTROPHYSICS

provides advanced training in astrophysics with an emphasis on exo-planetology, stellar and extra-galactic physics, ground- and space-based instrumentation, and concepts and tools of modern data science. It includes common courses and a specialisation in one of the above domains. The programme and dissertation work take place in a renowned research institute (the Astronomy Department of the University, also known as the "Geneva Observatory"), offering direct contacts with the local research groups and with international collaborations which use and contribute to state-of-the-art facilities of the field (ESO, ESA, NASA, and others).

Through the programme, students acquire both a solid foundation in modern astrophysics and expertise in their field of specialization. The programme leads to careers in areas such as research, teaching and industry, and develops skills that are very valued for Data Scientists.

AVAILABLE ORIENTATIONS:

- Exoplanetology
- From stars to the Universe
- Instrumentation and data analysis

STUDY PROGRAMME

4 semesters (max. 8 semesters) | 120 ECTS credits

Specialisation courses and electives, seminars, course work
60 credits

Dissertation

60 credits

PLANET S

Origin, evolution and characterisation of planets in the solar system and beyond. Since the discovery of exo-planets by the UNIGE back in 1995, planetology now not only focuses on discovery, but on the physical and chemical characterization of these new worlds. In this context the activities of PlanetS concern three main themes: the origin, evolution, and characterization of planets and planetary systems as a whole. Ultimately, PlanetS lays the foundations of a Swiss Institute of Planetary Sciences that will carry on these activities beyond the lifetime of the National Centre of Competence in Research.

nccr-planets.ch

ACADEMIC CALENDAR

www.unige.ch/calendar

LEVEL OF FRENCH REQUIRED BY UNIGE

No French proficiency test required for non-Francophones.

MOBILITY

Students may conduct research outside the university, under the supervision of a faculty member, or do a work placement at a leading external laboratory in order to complete their Master's degree.

unige.ch/exchange

PROFESSIONAL PROSPECTS

The Master in Astrophysics leads to a number of opportunities both in Switzerland and abroad, including:

- Research
- Data Science
- International organisations (ESA, ESO)
- Industry
- Teaching
- Communication and science outreach

UNIVERSITY TAXES

500 CHF / semester

REGISTRATION

Deadline: 30 April 2019
(28 February 2019 for applicants subject to a visa because of their nationality, as set forth in Swiss federal regulations)

unige.ch/enrolment

CONTACTS FOR STUDIES

FACULTY OF SCIENCE

Sciences II
30 quai Ernest-Ansermet
1211 Genève 4

STUDENT AFFAIRS

T. +41 (0)22 379 66 61/62/63
secretariat-etudiants-sciences@unige.ch

ACADEMIC ADVISOR

Xavier Chillier
T. +41 (0)22 379 67 15
conseiller-etudes-sciences@unige.ch

ASTRONOMY DEPARTMENT

Daniel Schaerer
T. +41(0)22 379 24 54
Daniel.Schaerer@unige.ch

www.unige.ch/sciences