NEW CANDIDATES

The Master program has two pillars:

- the neuroscience courses with compulsory in methodology, neurobiology and affective and cognitive neurosciences and various optional courses for 30 ECTS
- a long-term research project in a laboratory (at least 3 semesters) for 60 ECTS

Program structure

90 ECTS

6 compulsory courses
Cellular and moleclular neurobiology
Methodology and statistics
Cognitive and affective neuroscience

18 ECTS

Optionale courses
(among a choice of about 30 courses)

12 ECTS

Research project

60 ECTS

Study Duration : 3 to 5 semesters Start Date : Fall term Important : Students are doing in the same time both the research project and courses. **Student are expected to be at full-time in their laboratory outside class hours**, so at least 2 full days a week for the first two semesters.

Show the detailed study plan

Courses are jointly proposed by the faculty of Medicine, the faculty of Psychology and Educational sciences (FPSE), the faculty of Science, and the faculty of economics (GSEM).

* Course given once every two years (7312D given in 2019/20, 751235 not given in 2019/20, 24N09 given in 2019/20)

** Limited number of students

*** Under conditions of relevant knowledge in statistics

MANDATORY COURSES : NEUROBIOLOGY

Course number	Course name	Organizing lecturer	Institution/Faculty
24N01	Principles of neurobiology (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N01)	Daniel Huber	Medicine (Neurocenter)
Total			

MANDATORY COURSES : METHODOLOGY

Course number	Course name	Organizing lecturer	Institution
24N18	Introduction to applied statistics for health data analysis (https://pgc.unige.ch/main/teachings/details/24N18)	Delphine Courvoisier	FacMed
24N05	Techniques for investigating brain functions (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N05)	Christoph Michel	Medicine (Neurocer
Total			

MANDATORY COURSES : AFFECTIVE AND COGNITIVE NEUROSCIENCE

Course number	Course name	Organizing lecturer	Institution/Faculty
24N03	Introduction to cognitive and affective neuroscience (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N03)	Patrik Vuilleumier	Medicine (Neurocenter)

24N10	Clinical and experimental neuropsychology (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N10)	Roberta Ronchi	Medicine (Neurocenter)
Total			

OPTIONAL COURSES : AFFECTIVE AND SOCIAL NEUROSCIENCES

Course number	Course name	Organizing lecturer	Institutio
751035	Neuropsychologie des émotions et neuroscience affectives (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751035)	Didier Grandjean and Leonardo Ceravolo	FPSE (Ps
751036	Neurosciences affectives (TP) (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751036)	Didier Grandjean	FPSE (Ps
751037	Approches cognitives de l'émotion (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751037)	David Sander	FPSE (Ps
751042	Emotions positives et recherche de récompenses (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751042)	Eva Pool	FPSE (Ps
751343	How emotion affects memory over the lifespan (https://pgc.unige.ch/main/teachings/details/751343)	Ulrike Rimmele	FPSE
751610	Affect et prise de décision (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751610)	Tobias Brosch	FPSE (Ps
Total			

OPTIONAL COURSES : ARTIFICIAL INTELLIGENCE

Course number	Course name	Organizing lecturer	Institution/Faculty
13X005	Intelligence artificielle: Principes et méthodes (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/13X005)	Stéphane Marchand-Maillet	Sciences
S403011	Machine learning*** (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/S403011)	Sebastian Engelke	GSEM (Economie)
Total			

OPTIONAL COURSES : ATTENTION AND COGNITION

Course number	Course name	Organizing lecturer	Institution/Faculty
751200	Habitudes et systèmes de mémoire (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751200)	Julie Péron	FPSE (Psycho)
751202	Attention et fonctions exécutives (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751202)	Dirk Kerzel	FPSE (Psycho)
24N07	Neurobiology of vigilance states* (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N07)	Laurence Bayer	Médecine
751003	Neuropsychologie de la musique (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751003)	Clara James	FPSE (Psycho)
751044	Emotions animales (https://wwwi.unige.ch/cursus/programme-	Thibaut Gruber	Psychologie

	des-cours/web/teachings/details/751044)		
751204	Neuropsychologie cognitive (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751204)	Virginie Descloux	FPSE (Psycho)
751235	Modèles non symboliques des fonctions cognitives* (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751235)	Roland Maurer	FPSE (Psycho)
14B043	Introduction à la biologie du comportement (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/14B043)	André Langaney	Science
Total			

OPTIONAL COURSES : BIOETHICS

Course number	Course name	Organizing lecturer	Institution/Faculty
13B003	Bioéthique (version 1) (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/13B003)	Christine Clavien, Samia Hurst	Sciences
13B003	Bioéthique (version 2) (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/13B003)	Christine Clavien, Samia Hurst	Sciences
Total			

OPTIONAL COURSES: CLINICAL NEUROSCIENCES AND BRAIN DYSFUNCTIONS

Course number	Course name	Organizing lecturer	Institution/Faculty
75113E	Troubles du sommeil et fonctionnement psychologique (https://wwwi.unige.ch/cursus/programme-	Ralph Erich Schmidt	FPSE (Psycho)

	des-cours/web/teachings/details/75113E)		
751110	Neuropsychologie clinique de l'adulte (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751110)	Andrea Brioschi, Nadezhda Guevara	FPSE (Psycho)
751136	Neuropsychologie clinique intégrative des affections démentielles (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751136)	Anne Claude Juillerat Van der Linden	FPSE (Psycho)
Total			

OPTIONAL COURSES: DEVELOPMENT AND PLASTICITY

Course number	Course name	Organizing lecturer	Institution/Faculty
751337	Vieillissement cognitif et différences individuelles (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751337)	Alexandra Hering	FPSE (Psycho)
751116	Neuropsychologie de l'enfant et de l'adolescent (https://pgc.unige.ch/main/teachings?searchTerm=751116&year)	Mayor	FPSE (Psycho)
751116	Neuropsychologie de l’enfant et de l’adolescent (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751116)	Claire Mayor	FPSE (Psycho)
751338	Développement cognitif dans une perspective de Life-Span (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751338)	Mathias Kliegel	FPSE (Psycho)
13B010	Advanced topics in molecular genetics (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/13B010)	Robert Maeda	FPSE (Psycho)

Total			

OPTIONAL COURSES: FUNCTIONAL NEUROANATOMY

Course number	Course name	Organizing lecturer	Institution/Faculty
24N02	Introducing the human brain: from structures to function** (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N02)	Joszef Kiss, Charles Quairiaux	Medicine
Total			

OPTIONAL COURSES: LANGUAGE AND COMMUNICATION

Course number	Course name	Organizing lecturer	Institution/Faculty
75400	Neuropsychologie du langage chez l'adulte I (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/75400)	Marina Laganaro	FPSE (Psycho)
75415	Troubles du langage chez l'enfant (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/75415)	Hélène Delage	FPSE (Psycho)
751201	Langage (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751201)	Julie Franck	FPSE (Psycho)
Total			

OPTIONAL COURSES: METHODOLOGY

Course number	Course name	Organizing lecturer	Institution/Fac
	Introduction à la programmation		

751513	d'expériences (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751513)	Dirk Kerzel, Andres Posada	FPSE (Psycho)
751242	Electrophysiologie en psychologie cognitive (TP)** (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751242)	Nicolas Burra	Psychology
751500	Analyse de données multivariées (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/751500)	Julien Chanal	FPSE (Psycho)
24N04	PET and MRI Imaging in Neuroscience (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N04)	Philippe Millet, François Lazeyras, Nathalie Ginovart	Medicine
13X004	Imagerie numérique (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/13X004)	Svyatoslav Voloshynovskyy	Science
24N12	Applied Data science using open-source tools (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N12)	Michael Dayan	Medicine
24N14	Applied Data Science, examples of neuroimaging (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N14)	Michael Dayan	Medicine
14B012	Scientific writing and communication** (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/14B012)	Michael Hothorn, Andreas Boland	Science
14F001	Elements of bioinformatics (https://wwwi.unige.ch/cursus/programme-	Amos Marc Bairoch, Marie-	Science

	des-cours/web/teachings/details/14F001)	Claude Blatter	
14F012	Elements of proteomics and metabolomics: translation to human diseases (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/14F012)	Serge Rudaz, Jean-Charles Sanchez	Science
24N17	Scientific 3D applications (https://pgc.unige.ch/cursus/programme-des-cours/web/teachings/details/24N17)	Emmanuel Badier	Medicine (Neurocenter)
Total			

OPTIONAL COURSES : NEUROECONOMICS

Course number	Course name	Organizing lecturer	Institution/Faculty
S403052	Psychology of finance (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/S403052)	Kerstin Preuschoff	GSEM (Economics)
Total			

OPTIONAL COURSES : PERCEPTION

Course number	Course name	Organizing lecturer	Institution/Faculty
14C031	Perfume and flavour chemistry (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/14C031)	Christian Chapuis, Christian Margot	Science
Total			

OPTIONAL COURSES : COMPUTATIONAL NEUROSCIENCE

Course number	Course name	Organizing lecturer	Institution/Faculty

24N13	Trends in Computational Neuroscience (https://wwwi.unige.ch/cursus/programme-des-cours/web/teachings/details/24N13)	Alexandre Pouget	Medicine (Neurocenter)
24N16	Statistical and Computational Neuroscience (https://pgc.unige.ch/cursus/programme-des-cours/web/teachings/details/24N16)	Timothée Proix	Medicine (Neurocenter)
Total			

OPTIONAL COURSES : B2B

Course number	**Course name**	**Organizing lecturer**	**Institution/Faculty**
MGT-642	Innosuisse Business Concept (https://www.science2market.ch/training)	Iohannès Bry	EPFL
	BrainHack Geneva (https://brainhack.ch/)	Michael Dayan	Campus Biotech
i-teams	i-teams Program (https://ta.unige.ch/en/i-teams-programme/)	Vincent Wagner	UNIGE
Total			

Language

No French exam is required for the master in neuroscience admission. Official results to an English test (IELTS, Toefl, Toeic, Cambridge etc.) are required with a minimum B2 level in English as all of the compulsary courses and about one third of the optional courses are given in English.

Tuition fee

Tuitions fees are CHF 500.- per semester.

Admission conditions

The student can be accepted to the master if she/he fullfills three conditions:

1. The student holds a bachelor of Sciences, Medical Sciences, Psychology or any other degree considered equivalent by the faculties and the Neurocenter committee. Information regarding the equivalence cannot be obtained before the documents submission to the Admission office.

Medical diploma obtained outside EU are not eligible. **Paramedical trainings and diploma are not eligible. Swiss HES bachelors are eligible under the condition of validating a 40-ECTS customised study plan (one year) before entering the program.**

You can ask for a first notice about the possibilities of equivalence of your diploma by writting to delphine.jochaut@unige.ch

2. The student is merit-based selected (scholastic results and motivation).

3. The student is accepted by a research lab for the master project according to the schedule below.

How to apply

I am already a student at Unige

I am not a student at UNIGE yet

Contact

For administrative questions (immatriculation request), please contact directly the Admission office via their platform: https://admissions.unige.ch/kayako/ (https://admissions.unige.ch/kayako/)

For further information about the program, please contact directly Delphine Jochaut: delphine.jochaut@unige.ch

For information regarding living and studying in Geneva, you can contact the Master in neuroscience student association:
Site web (https://agora.unige.ch/sitesweb/AENG-GNSA/)
Email: aeng-gnsa@unige.ch

GENEVA UNIVERSITY (https://unige.ch)
NEUROCENTER
(HTTPS://NEUROCENTER-UNIGE.CH/)