Master of Science in Statistics

Welcome session
September 2025

GENEVA SCHOOL OF ECONOMICS AND MANAGEMENT
Research Institute for Statistics and Information Science

UNIVERSITÉ DE GENÈVE

Master's Programs

- Economics
- Responsible Management
- Statistics
- Wealth Management
- Business Analytics
- Commodity Trading
- Frequently Asked Questions
- Admissions

Master of Science in Statistics

The Master of Science in Statistics focuses on data analysis, methodological problem-solving in a range of disciplines, and various types of statistics software, or mathematical statistics. The program is open to experts wishing to

Main features

Program Length

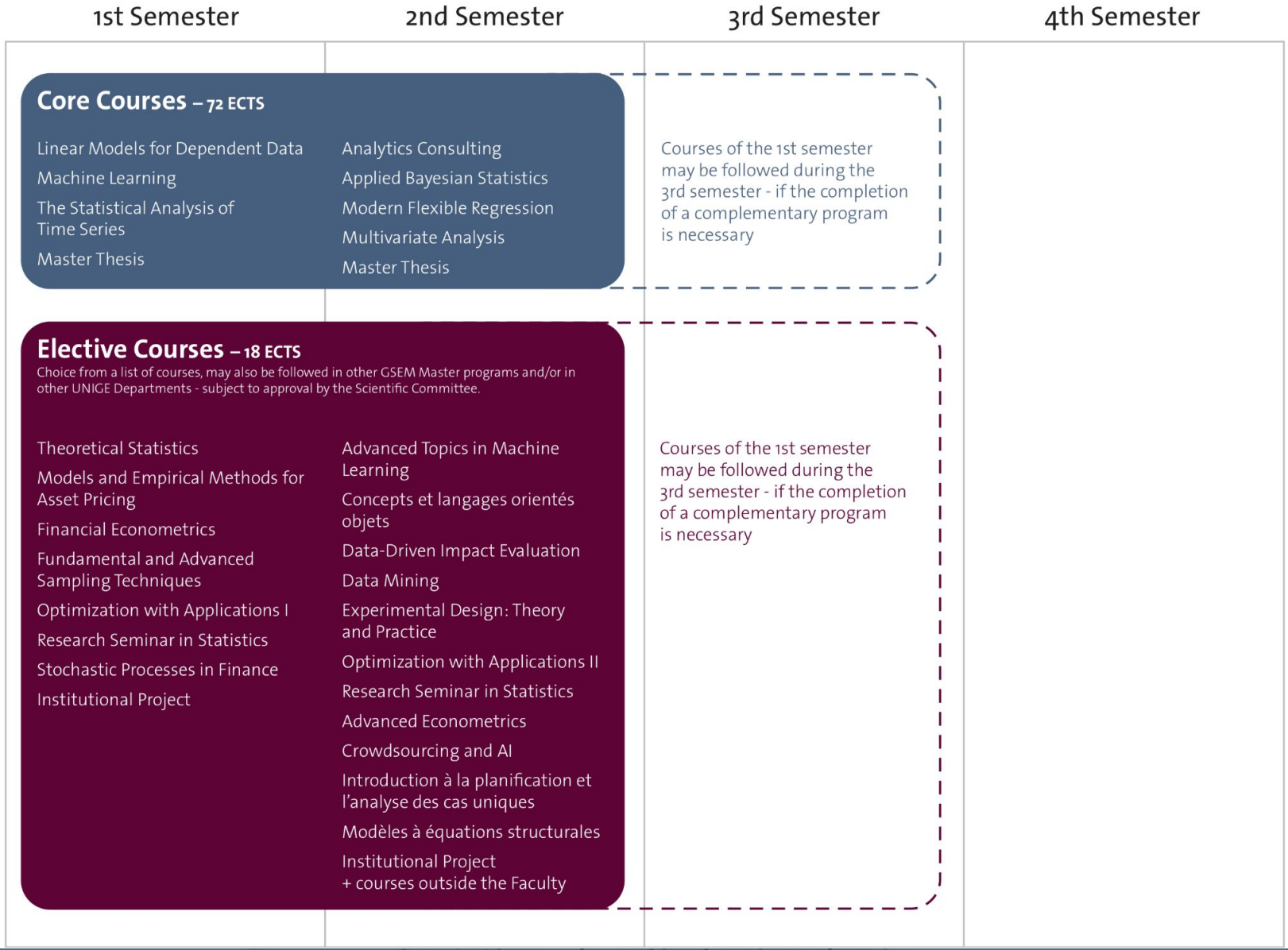
3 semesters (minimum) - 90 ECTS credits

Language of Instruction

English

Admissions

Application deadline: 28 February.
Please consult our web page on



GENEVA SCHOOL OF ECONOMICS AND MANAGEMENT

Research Institute for Statistics and Information Science

UNIVERSITÉ DE GENÈVE

UNIGE grading scale and information on exams

- UNIGE grading scale is based on 6.00 (0.00 to 6.00 with ¼ of point, for example: 3.50, 4.00, 4.25 etc);
- **4.00** is the minimum grade to obtain (ECTS) credits;
- If you obtain the minimum grade of 4.00, you can not retake the exam to improve your grade;
- For grades between 3.00 and 3.75 (including the extrema), you have the possibility to **validate up to 9 (ECTS) credits maximum** (10% of the degree);
- There are three exam sessions: January/February, May/June and August/September.

Co-requisite courses

- Some students have to complete and succeed in some complementary courses (so-called *co-requisite*) in addition to the courses in the master curriculum;
- **To pass each co-requisite course, you need to obtain at least the minimum grade 4.00 by August/September of your 1st year**;
- The co-requisite courses provide valid credits.
- Remark: to complete the Master, you need to achieve 12 (ECTS) credits by the end of the 1st semester and 30 (ECTS) credits by the end of your 1st year.

RULES - Conditions for success

- By the end of your first semester of study: you need a minimum of 12 (ECTS) credits in order to continue the Master cursus and avoid to be sidelined from the Master program (*art 19 al.1a* of the Regulation of GSEM);
- By the end of your first year of study: you need a minimum of 30 (ECTS) credits (*art. 19 al.1b* of the Regulation of GSEM);
- As soon as you can, you need to define a **master thesis project** through informal contacts with the master program's teachers
- **No later than the end of the fourth semester (end of retake exam session in August/September)** *:* The project must be approved by the master thesis director(s) and, if necessary, the internship supervisor. The project is then submitted to the Master in Statistics Scientific Committee for approval (by email to the program director, with the master thesis director copied in).
- The fifth semester of study is the latest deadline to obtain the 90 (ECTS) credits required (see *art 8 al. 2* of the Regulation of GSEM).

For additional info look at:

https://www.unige.ch/gsem/index.php/download_file/view/5859/10037/

RULES - Examination attempts

- **Mandatory courses: 2 attempts maximum**
  1 registration = 2 attempts

- **Elective courses : 4 attempts maximum**
  2 registrations = 4 attempts

Policy on the use of generative AI tools

- You can use generative AI tools for developing your group presentation(s) and/or individual assignment(s), unless otherwise instructed.
- You are provided with access to Microsoft Copilot (via your University login). You also may have (free) access to ChatGPT and Google Gemini (and possibly other generative AI tools such as Claude).
- When using generative AI tool(s) for your work, please add a maximum half-page declaration with the following information:
  1. Identify the generative AI tool(s) you used for your work;
  2. Describe how you used the generative AI tool(s) by disclosing the parts of your work that were developed in collaboration with the generative AI tool(s) and by identifying the contribution of the generative AI tool(s) to these parts; and
  3. Explain your unique contribution above and beyond outputs provided by the generative AI tool(s).

- The University of Geneva statement on (generative) AI also applies (see also the insightful guidebook on generative AI):

  unige.ch/en/university/politique-generale/statement-ai/

STUDY PLAN (core)

https://www.unige.ch/gsem/en/students/masters/studyplans-schedules-calendar/

Master of Science in Statistics / Maîtrise universitaire en statistique

Core courses (72 credits) / Cours obligatoires (72 crédits)

Enseignement	Code	Disc. / Thém.	Semestre	Heures hebd.	Crédits
Analytics Consulting	S401016	Gestion d'entreprises Statistique	P	3	6
Applied Bayesian Statistics	S411004	Statistique	P	2 + 2	6
Modern Flexible Regression	S411001	Economie Statistique	P	2 + 2	6
Linear Models for Dependent Data	S411014	Statistique	A	2 + 2	6
Machine Learning	S403011	Statistique	A	2 + 2	6
Multivariate Analysis	S411015	Statistique	P	2 + 2	6
The Statistical Analysis of Time Series	S403107	Econométrie Statistique	A	2 + 2	6
Master thesis *	S411022	Statistique	A/P	-	30

* Deadline for submitting the Master thesis: in accordance with Article 17, paragraph 3 of the Study Regulations, the Master thesis must be submitted no later than 8 weeks before the end of the 5th semester. /
Date limite de dépôt du mémoire de maîtrise : conformément à l'article 17, alinéa 3 du Règlement d'études, le mémoire de maîtrise doit être déposé au plus tard 8 semaines avant la fin du 5ème semestre.

STUDY PLAN (elective)

Elective Courses (18 credits) / Cours à options (18 crédits)

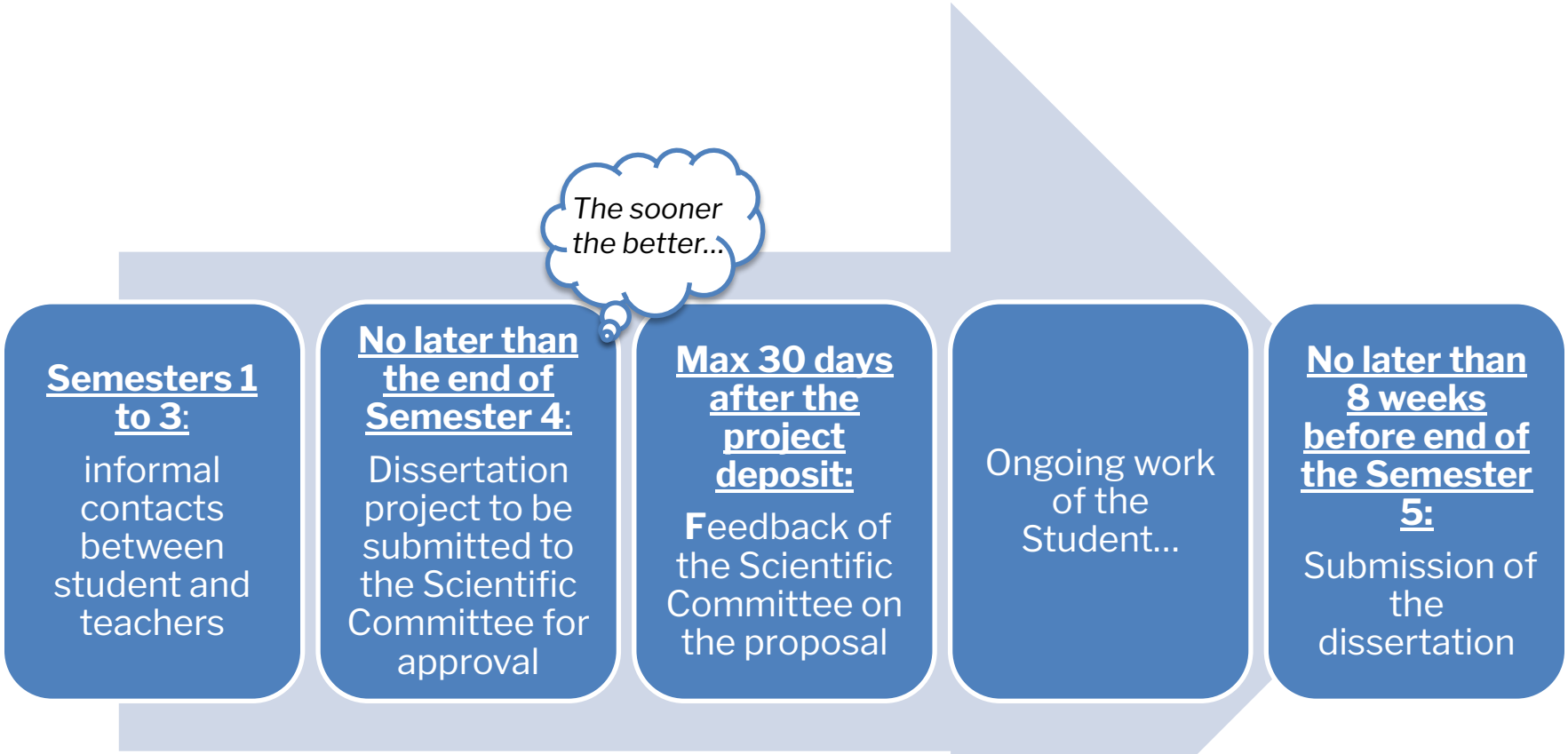
Courses to be selected in the following list and/or in other Masters programs of the Faculty or in other Faculties/Universities (subject to the agreement of the scientific committee and the written agreement from the teacher of the proposed course) / Cours à choisir dans la liste suivante et/ou dans d'autres programmes de maîtrise de la Faculté ou dans d'autres facultés / universités (sous réserve de l'accord du Comité scientifique et de l'accord écrit de l'enseignant-e de ce cours proposé).

Enseignement	Code	Disc. / Thém.	Semestre	Heures hebd.	Crédits
Theoretical Statistics *Cours interdit aux étudiant-es ayant suivi le cours « Advanced Statistical Inference »*	S403109	Statistique	A	2 + 2	6
Advanced Econometrics	S403078	Econométrie	P	2 + 2	6
Advanced Topics in Machine Learning	S411021	Statistique	P	2 + 2	6
Concepts et langages orientés objets	12X003	Sciences	P	HF	5
Crowdsourcing and AI	D400032	CUI	P	HF	6
Data-Driven Impact Evaluation	S403116	Econométrie	P	2 + 2	6
Data Mining	13X011	Sciences	P	HF	4
Models and Empirical Methods for Asset Pricing	S413055	Comptabilité, finance	A	4	6
Experimental Design: Theory and Practice	S411008	Statistique	P	4	6
Financial Econometrics	S413056	Comptabilité, finance	A	2 + 2	6
Fundamental and Advanced Sampling Techniques	S411028	Statistique	A	4	6

STUDY PLAN (elective)

Introduction à la planification et l'analyse des cas uniques	751515	FAPSE	P	HF	3
Invited Lecture in Statistics (*non donné en 2025-2026)*	S411009	Statistique	P	2	3
Modèles à équations structurales	751517	FAPSE	P	HF	3
Modèles multiniveaux *(non donné en 2025-2026)*	751518	FAPSE	P	HF	3
Optimization with Applications I	14M192	Sciences	A	HF	5
Optimization with Applications II	14M193	Sciences	P	HF	5
Research Seminar in Statistics	S411002	Statistique	AN	2	0
Selected Topics in Statistics *(non donné en 2025-2026)*	S411013	Statistique	A	2 + 2	6
Stochastic Processes in Finance	S413054	Comptabilité, finance	A	2 + 2	6
Institutional Project	S401034	Statistique	A/P	-	6

Master thesis – timeline overview



Reference documents :

- Regulation of Master programs (art. 17)
- Study plan 24-25
- Application directives
- Master thesis Guidelines
- The program coordinator will contact you providing info **about documentary research** (most likely in March) and use of **Zotero** to organize your biblio references

Fall 2025 Schedule

UNIVERSITÉ DE GENÈVE
GENEVA SCHOOL OF ECONOMICS AND MANAGEMENT

MSc. in Statistics 2025-2026

Fall 2025

	Monday	Tuesday	Wednesday	Thursday	Friday
8h15 - 10h	S411014SE **Linear Models for Dependent Data** *Assistant-es* M S030 S413054SE **Stochastic processes in finance** Assistant-es M 1150	S201008CR **Statistical Modelling** *Prof. Eva CANTONI* M S130	S403107SE **The Statistical Analysis of Time Series** *Assistant-es* M 5290	S403109CR **Theoretical Statistics** *Prof. Davide LA VECCHIA* M 3020 S210016SE **Statistics** *Assistant-es* M R290	S210016SE **Statistics** *Assistant-es* M 1170 S203039CR **Numerical Methods** Dr. Ilir ROKO M 2193
10h15 - 12h	S411028CR **Fundamental and Advanced Sampling Techniques** *Dr. Jean-Pierre RENFER* M S040	S110001CR **Mathematics I** *Prof. Tobias MUELLER* M S160	S413056CR **Financial Econometrics** *Prof. Olivier SCAILLET* M R170 S203031CR **Probability & Statistical Learning** Prof. Eva CANTONI M 2130	S413055CR **Model and Empirical methods for Asset Pricing** *Fabio TROJANI* M 3220	11h15-13h00 S411002CS **Research Seminar in Statistics** Prof. Davide LA VECCHIA M 5220 S110001SE **Mathematics I** *Assistant-es* U 300
12h15 - 14h		S413056CR **Financial Econometrics** *Prof. Olivier SCAILLET* SCIII 0019 11/11, 18/11, 25/11	S413055CR **Model and Empirical methods for Asset Pricing** *Fabio TROJANI* M 1160	S203031SE **Probability & Statistical Learning** Assistant-es M S030	
14h15 - 16h	S411028CR **Fundamental and Advanced Sampling Techniques** *Dr. Jean-Pierre RENFER* M 4050 S201008TP **Statistical Modelling** *Assistant-es* M 5290	S411014CR **Linear Models for Dependent Data** *Romain PIC* M R040 S210016CR **Statistics** *Prof. Arnold VIALFONT* M R080	S403109SE **Theoretical Statistics** *Assistant-es* M 5393 S203039SE **Numerical Methods** Dr. Ilir ROKO Pavillon Ansermet 119	S403107CR **The Statistical Analysis of Time Series** *Prof. Davide LA VECCHIA* M 3220	S110001SE **Mathematics I** *Assistant-es* M S160
16h15 - 18h		S403011CR **Machine Learning** *Prof. Sebastian ENGELKE* M R030	S413054CR **Stochastic processes in finance** *Dr. Gilles GRITON* M S040	S403011SE **Machine Learning** *Assistant-es* SCIII - 1S081	

Cours obligatoires

Cours électifs

Co-requis

Programme des cours : https://pgc.unige.ch/main/study-plans?searchTerm=statistics&year=2025&fac=14460&level=196

Spring 2026 Schedule

UNIVERSITÉ DE GENÈVE
GENEVA SCHOOL OF ECONOMICS AND MANAGEMENT

MSc. in Statistics 2025-2026

Spring 2026

	Monday	Tuesday	Wednesday	Thursday	Friday
8h15 - 10h	S411004CR **Applied Bayesian Statistics** *Dr. Shahin TAVAKOLI* M 2193 S403078SE **Advanced Econometrics** *Prof. Stefan Andréas SPERLICH* U 159	13X011CR **Data Mining** *Prof. Roland BOUFFANAIS* BA 316-8		751515CR **Introduction à la planification & l'analyse des cas uniques** *Prof. Olivier RENAUD* M 2170	8h15 -11h S401016CR **Analytics Consulting** *Prof. Diego KUONEN* M R160
10h15 - 12h	S403078CR **Advanced Econometrics** *Prof. Stefan Andréas SPERLICH* U 159	13X011EX **Data Mining** *Prof. Roland BOUFFANAIS* BA 314-15 BA 322-23 751517CR **Modèles à équations structurales** *Prof. Paolo GHUSLETTA* M 5020		12X003EX **Concepts & langages orientés objets** *Dr. Jean-Luc FALCONE* BA 314-15	11h15-13h S411002CS **Research Seminar In Statistics** *Prof. Davide LA VECCHIA* M 4220
12h15 - 14h	S411015CR **Multivariate Analysis** *Dr. Shahin TAVAKOLI* M 2170	S411001CR **Modern Flexible Regression** *Prof. Eva CANTONI* M S040	S411015SE **Multivariate Analysis** *Assistant-es* M 5290	S411004CR **Applied Bayesian Statistics** *Dr. Shahin TAVAKOLI* M S040 751515CR **Intro à la planification & l'analyse** *Prof. Olivier RENAUD* M S130	
14h15 - 16h	S403116CR **Data Driven Impact Evaluation** *Prof. Stefan Andréas SPERLICH* M 5220	S411001SE **Modern Flexible Regression** *Assistant-es* M 5290	S411008CR **Experimental Design: Theory and Practice** *Dr. Andreas RYTZ* 102 - Maraîchers		
16h15 - 18h	S403116SE **Data Driven Impact Evaluation** *Assistant-es* M 5220	S411021CR **Advanced Topics in Mach Learn** *Prof. Sebastian ENGELKE* M 4020 D400032 **Crowdsourcing and AI** *Prof. François GREY* Battelle A - RDC 12X003CR **Concepts & langages orientés obj.** *Dr. Jean-Luc FALCONE* BA 404-7	S411008SE **Experimental Design: Theory and Practice** *Assistant-es* 102 - Maraîchers	S411021SE **Advanced Topics in Machine Learning** *Assistant-es* M 2140	

Cours obligatoires

Cours à options

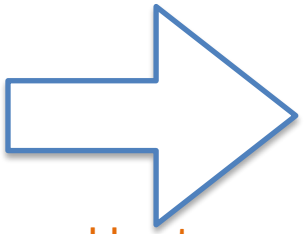
Programme des cours : https://pgc.unige.ch/main/study-plans?searchTerm=statistics&year=2025&fac=14460&level=196

Some remarks

1. Seminar series no longer compulsory, but *highly recommended*

2. You have 18 ECTS for elective courses:

- Mathematically (theory and methods) oriented
- Application oriented
- From other faculties and/or Universities …
- At the RISIS: I draw your attention to F.A.S.T. (OFS external lecturers) which has a new format and syllabus, with topics related to the use of ML techniques in official statistics. This is connected to the course "Experimental Design: theory and practice" (Nestlé external lecturer)



Ask the Scientific Committee

3. Consider wisely the load of your semester.

NEED HELP ?

Contact **Margot Richert**

By email : gsem-masters@unige.ch

or at GSEM Student Services
Uni Mail – 3rd floor