

Information on Phd Label "Mathematics in Economics and Business"



Institute for Statistics and Mathematics
WU Vienna

Summer 2023



- General Information
- The Study Program

- The label is based on the Curriculum for the PhD program in Economic and Social Sciences (Studienplan PhD in Wirtschafts und Sozialwissenschaften) from Oct 2019.
- The general rules of the Curriculum 2019 apply, but some parts are *specified further*.

- General Information
- The Study Program

The study program consists of the following parts:

- Academic Writing (6 ECTS): Research Seminar of Institute for Statistics and Mathematics or WU Academic Writing course
- Research Methods (6 ECTS): any Phd (PI) course offered by the institute
- Methodology and Theory (6 ECTS): any PhD (PI) course offered by the institute
- Interdisciplinary Research Seminar (6 ECTS)
- Research Seminar (12 ECTS): BBS of Institute for Statistics and Mathematics
- Free Electives (Wahlfach I, II) (6 ECTS): Conference or seminar visit, does not require any grade
- Mandatory Electives (30 ECTS): see below

Mandatory Electives

Students have to take 5 electives (6 ECTS x 5= 30 ECTS); at least one elective needs to be taken from each of the following four fields :

- Stochastic Processes and Financial Mathematics
- Statistics and Computing
- Analysis, Optimization and Operations Research
- Economics and Business (any PhD course not from a PI of the label, eg. finance, economics or production and supply chain management)

Mandatory Electives cont..

- It is possible to visit an elective course offered by VGSF PhD program:
 - If you intend to do so please inform your PhD supervisor (put us on cc); the supervisor should get in contact with Prof. Alexander Mürmann to get a confirmation.
 - The course needs to be listed as 'Research Methods' or 'Methodology and Theory'.
 - We should make sure that at most 2 students should visit the same VGSF elective at once.
- It is also possible to visit e.g. finance/econ related courses or optimization courses (VGSCO) at an outside university:
 - Make sure to co-register *not only* at the outside university, but also at WU.
 - Make sure to inform the WU doctoral office before taking the course and let them know under which topic ('Research methods' or 'Methodology and Theory') you want the outside course to be recorded.
 - Make sure that the outside course provides a grade and is worth 6 ECTS. If it has only e.g. 4 ECTS, it needs to be clarified up front if it can count.

Any questions ?