Specialization Econometrics and Data Science – General information 2017-2018

Mission, key aspects and end-qualifications
The aims and end-qualifications of the program are determined after a nation-wide consultation round. In the end-qualifications, it is stated that in the study of Econometrics and Data Science:

1) The student has familiarity with the use of computers, including the skills of programming in a high-level computer language and a working knowledge of some statistical and econometric software packages.

2) The student has been given the first opportunities to study professional and scientific literature on relevant subjects in econometrics and data science and has been able to prove his/her competence in these skills.

3) The student has a thorough basis of knowledge in mathematics and statistics.

4) The student has an in-depth knowledge of the fundamentals in econometric theory, methods and applications including the statistical methods related to data science which is sufficient to successfully follow a master program in Econometrics, Data Science, and related disciplines.

5) The student is able to analyze economic problems using econometric and statistical methods. The student is known with the labor market after the completion of the Bachelor study.

6) The student can work in teams and has basic communicative skills, both in verbal and written forms.

7) The student has an insight into scientific developments and knows about the role of econometrics and data science in other scientific fields such as economics but also in the society generally.

8) The student has been given sufficient insights into the diversity of other quantitative disciplines to make a well-founded decision about a possible next study.

Signing in for courses and exams
To follow courses and to take exams, you need to sign in to Vunet.

The courses
Concerning the courses offered by the division Mathematics and Computer Science from the Faculty of Science and the courses from the program in Economics and Business Economics, the courses are organized in their own ways. The Mathematics and Computer Science courses are presented in a period of eight weeks from which those in the first seven weeks consist of lectures and tutorials. The Economics and Business Economics courses have lectures and tutorials in the first six weeks. For both types of courses, some tutorials are compulsory; for more information, see the course guide.
The courses in Econometrics and Data Science follow the same structure as for the Economics and Business Economics courses. A typical 6 EC course has 8 contact hours per week, from which 4 hours are lectures and 4 hours are tutorials or computing classes. Some 6 EC course are split into two 3 EC courses in two consecutive periods. In this case, the 3 EC course has 4 contact hours. The total number of contact hours in a period is between 12 and 18 hours per week.

The 6 EC courses in the 4-week periods of January and June are key parts of the bachelor study Econometrics and Data Science where students advance more practical skills and learn how to use their knowledge from different courses to solve problems in economics. Students work together in small groups and jointly write a report and present their main findings. The aim is to get the experience in solving relevant problems in economics and business by using and applying the theory and methods from the courses in the bachelor study. Students can also practice their skills in computing and communication. Finally, the students will experience the challenges and the interactions between the different subjects in Econometrics and Data Science.

**Exams**

For most courses, the ECs are credited to the student when a written exam is completed successfully (is passed). Most exams consist of open questions, some questions may be multiple-choice. In many cases, the grade for a 6 EC course, is your final grade but in other cases the final grade may be a weighted average of the exam grade and grades from assignment work that has been completed during the course; for more details, see the study guide and the course manual. In case of a 6 EC course that is split into two 3 EC courses, the final grade is either the average of the two exams for each 3 EC course or it is the final grade of a final exam. The rules of how the final grade is constructed are always communicated clearly to the students.