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Faculty of Economic Sciences:

Following the resolution of the Faculty Council of the Faculty of Economic Sciences dated 26.06.2024, the Presidential Board of University of Göttingen approved the twenty-first amendment to the examination and study regulations for the consecutive Master's degree programme "Applied Statistics" on 30.10.2024 in the version published on 28.03.2013 (Official Announcements I no. 14/2013, p. 355), last amended by resolution of the Presidential Board dated 03.04.2023 (Official Announcements I no. 13/2024, p. 217), (§ 44 section 1 sentence 2 NHG in the version contained in the announcement dated 26.02.2007 (Nds. GVBl. p. 69), last amended by Article 12 of the Act dated 14.12.2023 (Nds. GVBl. p. 320); § 37 section 1 sentence 3 no. 5 b) NHG, § 44 section 1 sentence 3 NHG).

**Examination and study regulations for the consecutive Master's degree programme
"Applied Statistics" at the University of Göttingen**

§ 1 Scope and faculties involved

(1) The provisions of the "General examination regulations for Bachelor's and Master's degree programmes and other and degree programmes offered by the University of Göttingen" (APO), as well as the "General examination and study regulations for Master's degree programmes of the Faculty of Economic Sciences" (RPO-MA), in the respective current version, apply to the consecutive Master's degree programme "Applied Statistics" at Georg-August-Universität Göttingen.

(2) These regulations stipulate the additional provisions for the Master's degree programme.

(3) The Master's degree programme "Applied Statistics" is offered jointly by the Faculty of Economic Sciences and the Faculty of Medicine. The umbrella faculty is the Faculty of Economic Sciences. Changes to these regulations are decided by the Faculty Council of the Faculty of Economic Sciences at the suggestion of the Advisory Board of the Faculty of Economic Sciences. Before any corresponding resolutions are passed, the Faculty Council of the Faculty of Medicine must be given suitable opportunity for deliberations.

§ 2 Aim of the qualification

¹Besides the general aims of the course of studies defined in the RPO-MA, graduates acquire in-depth knowledge of statistical analysis and modelling, taking into account the latest

specialised developments and changed requirements of the professional world. ²Applied Statistics is a key discipline in all areas that deal with the collection, analysis and integration of data. ³It develops general methods and tools with which, among other things, large and complex data volumes from various sources can be responsibly and objectively translated into information and knowledge. ⁴The Master's degree programme therefore imparts modern statistical knowledge to Bachelor's graduates from various disciplines and thus reflects the classic bridging function of statistics: ⁵Starting with in-depth knowledge in one area of application and basic knowledge of statistics, the Master's degree programme provides in-depth knowledge, which in turn benefits the strengthening of the empirical foundation of the respective areas of application. ⁶Students have the opportunity to specialise in one of four application areas (economics, life sciences, social sciences, machine learning) and to combine the specialist knowledge they have acquired with in-depth knowledge of these application areas. ⁷On the basis of the acquired competences, graduates are able to exploratively assess data from different areas, analyse it statistically, critically examine the suitability and limits of different procedures and thus select the most suitable procedure for a given issue, prepare the results obtained, and communicate them to a broad public. ⁸They can also include ethical and social aspects in the assessment. ⁹After completing their course of studies, graduates can thus take up high professional positions nationally or internationally or progress to doctoral studies.

§ 3 Recommended prior knowledge

For the Master's degree programme, it is very beneficial to have subject-specific computer skills. Students with poor computer skills are advised to engage in appropriate learning before beginning the course of studies.

§ 4 Content structure of the Master's programme and credit requirements

(1) The 120 C to be completed in the Master's degree programme in Applied Statistics in a standard period of study of four semesters are made up as follows:

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| 1. compulsory area | 42 C |
| 2. compulsory elective area | 32-36 C |
| 3. statistical internship | 6 C |
| 4. optional area | 6-10 C |
| 5. Master's thesis | 30 C |

(2) The compulsory area provides basic knowledge of statistical inference, statistical models and statistical programming and covers the following subject areas:

- Mathematical foundations of applied statistics

- Methods of advanced statistical inference
 - o Linear models and their mathematical foundations
- Introduction to statistical programming
- Generalised linear models
- Advanced statistical programming with R
- Data protection and data ethics in applied statistics.

(3) The compulsory elective area provides in-depth knowledge of statistical modelling (18 C in total) and statistical specialisations in relation to a chosen field of application (14-18 C). The fields of application can be economics, life sciences, empirical social research and machine learning.

(4) As part of the statistical internship, students work in groups of up to four people in cooperation with a practice partner to develop statistical solutions to a given problem. The results of the internship are presented in a colloquium and summarised in a project report.

(5) ¹The coursework and examinations are to be completed in compulsory, compulsory elective and elective modules. ²The module catalogue, which also contains the module overview within the meaning of § 4 section 1 sentence 1 APO, is published separately; it is an integral part of these examination and study regulations. ³The compulsory, compulsory elective and elective modules are bindingly specified in the module catalogue. ⁴Examples of an appropriate structure of the degree programme can be found in the exemplary curricula attached in the appendix.

(6) A prerequisite for admission to the Master's thesis is the acquisition of 33 C from the compulsory area. The Master's thesis takes 20 weeks to complete. Part of the Master's thesis is participation in a research colloquium in which the student's own work is presented.

§ 5 Entry into Force

(1) These regulations shall enter into force following their announcement in the Official Announcements I of Georg-August-Universität Göttingen as of 01/10/2013.

(2) ¹Students who commenced their course of studies before an amendment to these examination and study regulations came into force and who have remained enrolled therein without interruption will be examined on the basis of the examination and study regulations in place before the amendments came into force. ²In the case of pending examinations, this does not apply to module overviews and descriptions, unless the legal entitlements of a student calls for a different decision by the examination board. ³A different decision can be reached especially in cases where an examination component can be repeated, or a compulsory or

optional required module has changed significantly or been cancelled. ⁴The examination board can draw up general rules for this purpose. ⁵Examinations based on a version valid prior to the coming into force of an amendment to the existing examination and study regulations will be conducted for the last time in the fourth semester following the amendment has come into force. ⁶On application, students affected by sentence 1 shall be examined in general on the basis of the amended regulations.

Appendix: Graphic of the recommended course of study

Master-Studiengang Angewandte Statistik - empfohlener Studienverlauf



