

# Master Mathematics

## Information winter term 2018/19

University of Potsdam

18 October 2018



# **Studies at the Institute of Mathematics**

## **Organizational Points:**

**Course of Studies  
Regulations  
Useful information**

# Professorships/Chairs

- The Institute of Mathematics with [13 chairs](#) offers courses for the [Bachelor/Master of Education](#), the [Bachelor/Master of Science](#), and [service lectures](#) for students in other disciplines as biology, geoscience, physics,....

Algebra and Number Theory, Analysis, Applied Mathematics, Didactics of Mathematics, Geomagnetism, Geometry, Graph Theory, Mathematical Modelling and System Biology, Mathematical Physics, Mathematical Statistics, Numerical Mathematics, Partial Differential Equations, Probability Theory

# Modules, credits and graduation

## Our courses are **modules**

- Lectures, exercises, seminars
- usually in one semester
- final examination  $\Rightarrow$  credit points (LP, ECTS) and a grade

Necessary number of points for successful master study: **120 LP**

- 6 LP mandatory field
- 66 LP elective field
  - elective modules are modules you have to select from the modules offered every semester
- 18 LP additional subject
- 30 LP master thesis
- **final grade** average of all grades, weighted with the credits

# Study Regulations (Studienordnung)

- **Studienordnung** and **Modulhandbuch** at website of our institute in German. [www.math.uni-potsdam.de/studium](http://www.math.uni-potsdam.de/studium).

Example:

MAT-VM-D826 Funktionalanalysis I 9

- means: number of the module, title, and number of credits

# Mandatory and elective modules

- Only one **mandatory module**: Scientific work (6 LP)  
Literature research on a topic and written homework on that topic
- Select from the offer of **elective modules** so that you get the required number of 66 LP's.
- You can choose from the following fields
  - Algebra, Discrete Mathematics and Geometry
  - Analysis and Mathematical Physics
  - Probability Theory and Statistics
  - Applied Mathematics and Numerics
- One has to select modules at least from three different fields, from one field at most 27 points can be given.  
Moreover, some seminars have to be chosen.

# Mandatory and elective modules

- It is possible to choose one module from a university of Berlin (TU Berlin/FU Berlin/HU University). Must be approved by examining board.

# Additional subject (18 LP) – Zusatzfach

- One can choose (already from the first semester)
  - Computer Sciences
  - Physics
  - Economy
  - Business Administration
- Courses are offered by the corresponding institutes
- If you are interested in **another additional subject**, you can submit an application to the examination board of the Institute of Mathematics and to that of the institute of the desired field. In almost all cases the application is approved.

# Study regulations - Module catalog

Module catalog: Title, content of the module

- Number of lectures per week, exercises or seminar
- When? (Every year? Winter or summer semester?)
- Oral or written examination
- Requirements which have to be fulfilled to be admitted to the examination: They are called **Prüfungsnebenleistungen (PNL)** (usually: solving exercises and presenting the solutions)
- **Compulsory attendance** in exercises and seminars but not in lectures
- Attendance at lectures is however strongly recommended!

# Study period

- In study regulations (Studienordnung): **study guideline**  
study guideline is a proposal (30 LP's in each semester);  
last semester: master thesis

## Annotated Course Catalog

### (Kommentiertes Vorlesungsverzeichnis (KVV))

- Course catalog for the current semester at the web site of the institute
- Detailed description of the content of the course
- If you do not successfully complete the study after 2 years (*Regelstudienzeit*), nothing will happen (from the side of the university). Only after four years, there will be review whether you will be taken off from the university register (Exmatrikulation)

# Profiles

You may select modules following one of the following **two profiles:**

- Structures in Mathematics inspired by Physics
- Mathematical Modelling and Data Analysis

The profile can be including in the MSc certificate.

# Register for courses

## IMPORTANT!

- You have to register for the courses, that is,  
until **20. Nov. 2018**  
you have to register at the online course platform. **PULS**<sup>1</sup>
- Be careful: You have to register for exercises, called *Prüfungsnebenleistungen (PNL)*, not for the lectures (*Vorlesungen*).
- Usually you will be admitted.  
(If this procedure does not start correctly at the beginning of the semester, a participation in the examination is not possible!)
- If you are admitted to the course, but you do not register for the examination, nothing will happen.

<sup>1</sup>Potsdamer Universitätslehr- und Studienorganisationsportal

# Register for examination

- To take part in the examination you have to **register at PULS**
- **8 days before** the examination
- Admission by the professor
- Deadlines are given in the lectures

**!!!** If you forget to register in time, it is impossible to take part in the examination!

# Examinations

- Usually at the end of a semester (exception: seminar, scientific work)  
there are **2 dates** for one exam.
- **Repetition of an exam in case of failure**  
According to our rules you can repeat an exam two times.  
If you failed in all repeated examinations of a module, you will be exmatriculated.
- **Liberal "Freiversuchsreglung":**  
If you fail the first time in your first semester, then the exam is considered as not taken. (Erstsemesterfreiversuch)  
Moreover, in the whole master study you can apply that two examinations are a "free attempt" (Freiversuch):  
(In case of failure or improvement of the grade);  
necessary: first two years (Regelstudienzeit)

# Guidance

- **Mentoring** Every student will have a mentor (professor, lecturer) The mentor should help you to answer questions concerning the study (organizing the study, choice of the additional field, examinations).

Assignment of mentors: Frau Dr. Rosenberger  
[erosen@uni-potsdam.de](mailto:erosen@uni-potsdam.de)

- Questions are answered also by
  - Lecturers
  - during the exercises
  - **Student council (Fachschaft Mathematik/Physik)**

# Guidance

- **Study Counseling**

apl. Prof. Dr. G. Zöller, [zoeller@uni-potsdam.de](mailto:zoeller@uni-potsdam.de)  
room 1.04

- Questions concerning examinations:

**Examination board** (Chair) apl. Prof. Dr. H. Liero  
[liero@uni-potsdam.de](mailto:liero@uni-potsdam.de)  
room 1.09

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!!! Please keep track of changes !!!

# Computer pool

- To work in our computer pools (rooms 0.17, 1.22) you need an account.

You have to apply at **technician Herrn Dathe** (room 0.15).

Application form

[http://www.math.uni-potsdam.de/fileadmin/user\\_upload/IT/Files/Accountantrag.pdf](http://www.math.uni-potsdam.de/fileadmin/user_upload/IT/Files/Accountantrag.pdf)

- e-mail [dathe@uni-potsdam.de](mailto:dathe@uni-potsdam.de), fax 9771260

You find

Regulations, study guidelines, information:

<http://www.math.uni-potsdam.de/studium>