



# GÖTEBORG UNIVERSITY

Faculty Board of Science

## **MVA100 Mathematical Groups 7.5 higher education credits**

*Second Cycle*

This syllabus is the binding document.

### **1. Confirmation**

The syllabus was confirmed by the Department of Mathematical Sciences on 2007-06-15 to be valid from 2007-07-01. Revised on 2008-11-24. Field of education: Science. Responsible department: Mathematical Sciences.

### **2. Position in the educational system**

The course Mathematical Groups, 7.5 higher education credits, is a mandatory orientation course in the two-year Masters Program in Mathematical Sciences. It is also open for eligible students outside the program. Having attended the course is required for the degree of master (two years) in Mathematics or Mathematical statistics.

### **3. Entrance qualifications**

To be eligible for the course Mathematical Groups, one has to follow the two-year Masters Program in Mathematical Sciences or, the equivalent of 135 higher education credits in Mathematics and Mathematical statistics altogether is required.

### **4. Course content**

There will be five lectures each semester, given by a representative from different research groups at the department. At these lectures the field in question will be presented together with some of its history, current state of knowledge, and perhaps even open questions. These ten lectures will be mandatory. The student will pick two of these groups, and do a two and a half week assignment on that topic. Those assignments will be described, supervised, and graded by the group representative, or representatives.

### **5. Learning outcomes**

After completing the course the student will be able to

- give an outline of some of the current research in Mathematical Sciences
- give a more detailed presentation of some ongoing work, and questions studied, in

two of the active research groups.

## **6. Required reading**

The required reading will be described in each individual assignment separately.

## **7. Assessment**

The examination consists of two assignments, as outlined in §4. The two different tasks are individually given, and might vary from student to student, depending on her interest and/or background. To pass the course the student also have to attend the ten lectures.

## **8. Grading scale**

The grades are Fail (U), Pass (G), and Pass with Distinction (VG).

The final grade is Pass if the student successfully passed both individual assignments. To obtain Pass with Distinction, the student has to pass both and aquire a Pass with Distinction on at least one of the individual assignments.

Students who are contractually entitled to ECTS grades should inform the examiner about this no later than one week after the start of the course.

Students without such entitlement will not be awarded ECTS grades. Grades will be converted into ECTS terminology according to a standard model approved by the University President.

## **9. Course evaluation**

Oral and/or written course evaluation will be performed. The results of the evaluation will be communicated to the students and will function as a guide for the development of the course.

## **10. Additional information**

If not all involved, in the specific learning situation, i.e. lecture, supervision, or examination, are speaking Swedish, the language will be English.

Since there are many more than ten active research groups at the Mathematical Sciences there will be different constellation of groups presenting each year.