

Course Information

Fall 2013

Time and Room: TBA

Instructor: Patroklos Benatos

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Office hours: By appointment, usually after class

Course page: <https://pbenatos.web.elte.hu>

All details (including what you find on this page) and a blog to discuss matters during the semester are on this site. Please visit the site.

Approach: The overall key characteristic of the course is the emphasis on the *depth of understanding* rather than on the quantity of material. In addition to your knowledge of the field, the class also aims at contributing to your *ability to work in a team* and to your *presentation skills* (see Format).

Background: You need to be familiar with the style of rigorous and precise arguments. The following areas of Mathematics, in their *simplest (but precise) form*, will be used: Naïve Set Theory, Probability, Linear Algebra.

Format: The class combines the lecture and the problem solving seminar format. Lectures are PowerPoint presentations that will be downloadable. Problem solving seminars are teamwork-based with students presenting solutions. This way, in addition to your understanding of game theory, you practice your ability to work in a team and improve your presentation skills. There is approximately one problem solving seminar every two weeks.

Text: The course does not follow any textbook but rather it is a mesh of several textbooks combined with the instructor's own approach as to how the material can be structured and explained. Textbooks useful for background reading are listed on the course homepage under Literature and Web.

Exams: There are no exams in the traditional sense in this course (see Grading).

Grading: Your grade is determined by homework assignments (50%) and a final essay (50%). In addition, I also consider class activity as a contribution. **Homework assignments:** there will be a maximum of 6 problem sets handed out (downloaded) during the semester. We solve these problems together at the problem-solving seminar; nevertheless, you have to write the solutions up by yourself. Homework is submitted in electronic format by e-mail. Deadline: usually 3-4 days after the problem-solving seminar. If you miss the deadline, you may submit up to one week after the deadline for half credit.

Essay: You will need to summarize the key concepts and their relationships we learn during the semester in your own words and hand it in electronically no later than Wednesday noon of the exam week. This counts as your final exam.

Syllabus: The syllabus can be found on the website under Course Description. I consider the syllabus as a tentative plan that can be adjusted based on how we progress in accordance with the aim that depth of understanding is more important than quantity of material.