

Syllabus for Math 7211, Autumn 2017

Professor. David Penneys

Office. Math Tower (MW) 752

Hours. (Subject to change) F 11:30-12:30 or by appointment

Email. penneys.2(at)osu.edu

Course website. The course website is:

<https://people.math.osu.edu/penneys.2/7211/2017/Math7211Autumn2017.html>

Textbooks. There is no official textbook. Instead, I will post lecture notes online. I have also provided helpful links to online notes on von Neuman algebras by several people.

Prerequisites. Math 7211: Functional Analysis I.

I expect that students have covered the material I covered last semester. I have posted all the notes from my lectures online.

Homework. I will assign weekly homework assignments. The assigned problems are a lower bound of what students are expected to do.

Students **must** work together to solve problems in groups of 2 or 3. Ideally, students will not work with the same collaborators for the entire semester, but will try to work with everyone in the classroom at least once. However, if students develop a very good working collaboration with someone, they are encouraged to continue working with that person. Each group will write up their solutions. Groups may use whatever resources they want, but they must cite all their sources. **Lack of citation will be regarded as academic misconduct/plagiarism.**

Homework will be due at the beginning of lecture on Mondays. Groups may choose to email me their homework before the deadline.

There is a strict format for homework. Groups should hand in a final copy of their homework on plain white paper without lines, perforations, or holes. Please use a new page for each problem. The final copy should represent the student's best effort, as homework counts for the entire class grade. Groups are encouraged to typeset their homework with L^AT_EX, in which case they do not need to stick to one page per problem.

In the event that homework is not completed in the required format, the homework will be directly returned to the group, who may hand it in at the next class at a penalty of half the points for that homework.

Grading. Groups' grades will be entirely based on homework and attendance. In rare circumstances, and with prior consent from me, a student may write a survey article on a topic of my choice and give a lecture to the class on their article to replace some percentage of the homework grade.

Incomplete grades. From

<http://artsandsciences.osu.edu/academics/current-students/advising/policies>

An 'I' indicates that a student has completed a major portion of the work in the course in a satisfactory manner, but for reasons judged by the instructor to be legitimate, a portion of the course requirements remains to be completed. If illness or an emergency prevents you from finishing a course, you may request an 'Incomplete' from the instructor. When you receive this grade, you must consult with the instructor as soon as possible to make

arrangements for completing the course requirements. Incomplete work must be completed no later than the sixth week of the following semester. If the work is not made up by the due date, the 'I' mark will be changed to the alternate grade the instructor reported.

Academic Misconduct Statement. It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-48.7). For additional information, see the Code of Student Conduct at <http://studentlife.osu.edu/csc/>.

Disability Services Statement. Students with disabilities (including mental health, chronic or temporary medical conditions) that have been certified by the Office of Student Life Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office of Student Life Disability Services is located in 098 Baker Hall, 113 W. 12th Avenue; telephone 614- 292-3307, slds@osu.edu; <http://slds.osu.edu>