**Professor.** David Penneys

Office. Math Tower (MW) 752

Hours. By appointment Email. penneys.2(at)osu.edu

Course website. The course website is:

https://people.math.osu.edu/penneys.2/7211/2022/Math7211Spring2022.html

**Sources.** There is no official textbook for the course. Material will be taken from Pedersen, Rudin, and various other online resources.

- Pedersen, Gert K. Analysis now. Graduate Texts in Mathematics, 118. Springer-Verlag, New York, 1989. xiv+277 pp. ISBN: 0-387-96788-5 MR0971256
- Rudin, Walter. Functional analysis. Second edition. International Series in Pure and Applied Mathematics. McGraw-Hill, Inc., New York, 1991. xviii+424 pp. ISBN: 0-07-054236-8 MR1157815

Prerequisites. Math 7211: Functional Analysis I.

**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 LATEX, 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. The university strives to make all learning experiences as accessible as possible. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the university's request process https://slds.osu.edu/covid-19-info/covid-related-accommodation-requests/managed by Student Life Disability Services. If you anticipate or experience academic barriers based on your disability (including mental health, chronic, or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; http://slds.osu.edu; 098 Baker Hall, 113 W 12th Ave.

Counseling and Consultation Services. As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life Counseling and Consultation Services (CCS) by visiting ccs.osu.edu or calling 614-292-5766. CCS is located on the 4th Floor of the Younkin Success Center and 4th Floor of the PAES Building. 24 hour emergency help is also available through the National 24/7 Prevention Hotline at 1-800-273-TALK or at suicidepreventionlifeline.org.