MATH:3770:0AAA FUNDAMENTAL PROPERTIES SPACES/FUNCT

Other numbers of course on MyUI if cross-listed

Course meeting time and place: 12:30P - 1:20P MWF 217 MLH

Department of Mathematics: https://math.uiowa.edu

Course ICON site: To access the course site, log into Iowa Courses Online (ICON) https://icon.uiowa.edu/index.shtml using your Hawk ID and password.

Course Home

For Undergraduate Courses: The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the add and drop deadlines, the “second-grade only” option (SGO), academic misconduct policies, and other undergraduate policies and procedures. Other UI colleges may have different policies.

Instructor

Office location: 25K McLean Hall
Student drop-in hours: 11-11:50 AM MWF
Phone: 335-0772
E-mail: hao-fang@uiowa.edu
DEO: Professor Ryan Kinser

TA information:

Description of Course

This course starts with a discussion of the real number system, especially the completeness axiom, covers convergence of sequences, and explains the basic theory underlying the differential and integral calculus. Particular attention is given to solving problems and writing proofs; regular written assignments are required. Students are expected to obtain a more exact knowledge of theoretical concepts and sound reasoning than in previous courses.

Learning Objectives

This is one of the core courses for all math major students. Students are to expect to learn not only fundamental concepts and theories of the modern analysis, but also to understand how to write rigorous proofs with flawless logic. This course prepares students for future advanced courses. Working on weekly homework independently may be time consuming...
but will be crucial for this course.

Textbook/Materials

By S. R. Lay from Pearson Chapters 1 to 9.

The required textbook(s) for this course are:

- Title: Analysis with an introduction to proof
- Author: S.R. Lay
- Publisher: Pearson
- Copyright Year: 2014

Academic Honesty and Misconduct

All students in CLAS courses are expected to abide by the CLAS Code of Academic Honesty. Undergraduate academic misconduct must be reported by instructors to CLAS according to these procedures. Graduate academic misconduct must be reported to the Graduate College according to Section F of the Graduate College Manual.

Instructors: please provide guidance on particular academic honesty policies in your course, such as the role of collaboration with other classmates on homework assignments and exams, using internet study services and exam review tools, etc.

Student Complaints

Students with a complaint about a grade or a related matter should first discuss the situation with the instructor and/or the course supervisor (if applicable), and finally with the Director or Chair of the school, department, or program offering the course.

Undergraduate students should contact CLAS Undergraduate Programs for support when the matter is not resolved at the previous level. Graduate students should contact the CLAS Associate Dean for Graduate Education and Outreach and Engagement when additional support is needed.

Drop Deadline for this Course

You may drop an individual course before the deadline; after this deadline you will need collegiate approval. You can look up the drop deadline for this
course here. When you drop a course, a “W” will appear on your transcript. The mark of “W” is a neutral mark that does not affect your GPA. Directions for adding or dropping a course and other registration changes can be found on the Registrar’s website. Undergraduate students can find policies on dropping and withdrawing here. Graduate students should adhere to the academic deadlines and policies set by the Graduate College.

**Grading System and the Use of +/-**

*This course uses the plus or minus grading system. Note that A+ grades are given only in extraordinary situations. Final grades will be curved.*

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**Course Grades**

Final course grades will be assessed based on your performance in the following activities:

*Weekly homework assignments are given and collected on Fridays. They account for 30% of the final grades.*

*Quizzes will be given about every two weeks to ensure that students are understanding the materials. They will be given in class, which account for 10% of the final grades.*

*Midterms: two exams of equal weight will be given. One is scheduled on February 17th and one is on March 31st. Each exam will cover material covered before the exam date, including information presented in lecture, discussion section, and the assignments. They account for 30% of the final grades.*

*Final Exams: a 2-hour final will cover material of the whole semester. It accounts for 30% of the final grade.*

**Date and Time of the Final Exam**

The final examination date and time will be announced by the Registrar generally by the fifth week of classes and it will be announced on the course ICON site once it is known. **Do not plan your end of the semester travel plans until the final exam schedule is made public. It is your responsibility to know the date, time, and place of the final exam.** According to Registrar’s final exam policy, students have a maximum of two weeks after the announced final exam schedule to request a
change if an exam conflict exists or if a student has more than two exams in one day (see the policy here).

**College of Liberal Arts and Sciences (CLAS) Course Policies**

**Attendance and Absences**

Attendance is required for lectures and discussing sessions. University regulations require that students be allowed to make up examinations which have been missed due to illness or other unavoidable circumstances. Students with mandatory religious obligations or UI authorized activities must discuss their absences with me as soon as possible. Religious obligations must be communicated within the first three weeks of classes.

**Exam Policies**

**Communication: UI Email**

Students are responsible for all official correspondences sent to their UI email address (uiowa.edu) and must use this address for any communication with instructors or staff in the UI community.

**Other Expectations of Student Performance**

*No electronic devices are allowed for exams.*

**Where to Get Help**

*Check out the math help room at McLean Hall.*

**University Policies**

**Accommodations for Students with Disabilities**

**Basic Needs and Support for Students**

**Classroom Expectations**

**Exam Make-up Owing to Absence**

**Free Speech and Expression**

**Mental Health**

**Military Service Obligations**

**Non-discrimination**

**Religious Holy Days**

**Sexual Harassment/Misconduct and Supportive Measures**

**Sharing of Class Recordings**