MATH 9306A - Course Outline - FW 2023-24 (Redacted)

1. Course Information

Course Information

Mathematics 9306A-001 – Banach Function Spaces, September-December 2023.

---Time and location deleted---

List of Prerequisites

A course in Measure Theory

Unless you have either the requisites for this course or written special permission from your Dean's Designate (Department/Program Counsellors and Science Academic Counselling) to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

2. Instructor Information

Gord Sinnamon, Professor, Department of Mathematics. Email – sinnamon@uwo.ca. Office – Middlesex College Room 103e. Extension – 86535.

Drop-in office hours will be held in-person in MC 103e at times to be determined in consultation with the class. To meet outside these times, email me for an appointment and include a *definite day and time* that you would like to meet.

3. Course Syllabus, Schedule, and Delivery Mode

Course Content

Description: Function spaces and duality, Lebesgue and Lorentz spaces, rearrangement-invariant spaces, weighted Hardy inequalities, interpolation spaces, Calderon's theorem, positive operators, monotonicity in function spaces.

Key Sessional Dates

Classes begin: September 7, 2023
Last day to add: September 15, 2023
No classes: September 29, 2023
Holiday: October 9, 2023

Reading Week: October 30 to November 5, 2023

Last day to drop: November 13, 2023 Classes end: December 8, 2023

Exam period: December 10 to 22, 2023

Although the intent is for this course to be delivered in person, should any university-declared emergency require some or all of the course to be delivered online, either synchronously or asynchronously, the course will adapt accordingly. The grading scheme will not change. Any assessments affected will be conducted online as determined by the course instructor.

Course Materials

Required Course notes will be provided.

Learning Management System (OWL)

If students need assistance with the course OWL site, they can seek support on the OWL Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-661-3800 or ext. 83800.

Technical Requirements

4. Methods of Evaluation

Course Grade

The final course grade will be determined by student performance on

Five Written Assignments [30%]: --- Due dates deleted--- Assignments will be equally weighted.

If you need a one-week extension for an assignment contact your instructor before the due date. This is not an academic accommodation.

Midterm Test [30%]: ---Date and time deleted---

Final Exam [40%] To be scheduled in consultation with the class.

Make-up Dates

Special Examinations (make-ups for the final) will be scheduled in January.

5. Student Absences

If you need a one-week extension for an assignment contact your instructor before the due date. This is not an academic accommodation.

If you are unable to meet a course requirement due to illness or other serious circumstances, please follow the procedures below.

If you miss or expect to miss a lecture, an assignment deadline, the midterm, or the final examination, contact Gord Sinnamon as soon as possible. Approved absences will be accommodated.

Accommodation and Accessibility

Religious Accommodation

When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request accommodation for their absence in writing at least two weeks prior to the holiday to the course instructor and/or the Academic Counselling office of their Faculty of Registration. Please consult the University's list of recognized religious holidays (click here), which is updated annually. Alternatively, you may wish to enter

• https://multiculturalcalendar.com/ecal/index.php?s=c-univwo

directly into your browser.

Accommodation Policies

Students with disabilities are encouraged to contact Accessible Education, which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. Students can consult the policy on Academic Accommodation for Students with Disabilities (click here). Alternatively, type

• www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic Accommodation_disabilities.pdf

into a browser.

6. Academic Policies

The website for Registrarial Services is http://www.registrar.uwo.ca (click here).

In accordance with policy (click here), the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner. The policy referenced above can also be accessed by typing

• https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf

into your browser.

Scholastic offences are taken seriously and students are directed to read the appropriate policy (click here), specifically, the definition of what constitutes a Scholastic Offence. This policy can also be accessed by typing

• http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf

into your browser.

In the event of a health lock-down, tests and examinations in this course will be conducted using a remote proctoring service. By taking this course, you are consenting to the use of this software and acknowledge that you will be required to provide personal information (including some biometric data) and the session will be recorded. Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's Remote Proctoring website at https://remoteproctoring.uwo.ca (click here).

7. Support Services

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: https://www.uwo.ca/sci/counselling/ (click here).

Students who are in emotional/mental distress should refer to Mental Health@Western by visiting their website https://uwo.ca/health/ (click here) for a complete list of options about how to obtain help.

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will information about support services for survivors, including emergency contacts is available (click here). If you cannot access the link you can type

https://www.uwo.ca/health/student_support/survivor_support/get-help.html

into your browser. To connect with a case manager or set up an appointment, please email support@uwo.ca.

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Accessible Education (click here) if you have any questions regarding accommodations. If the link provided does nto work, type

http://academicsupport.uwo.ca/accessible_education/index.html

into your browser.

Learning-skills counsellors at the Student Development Centre (click here) are ready to help you improve your learning skills (alternatively, type https://learning.uwo.ca into your browser). They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.

Additional student-run support services are offered by the USC, https://westernusc.ca/services/ (click here).