

MATH 311: Mathematics Research Seminar - Spring 2025

Syllabus

Key information

- Instructors: Tan Le, Hieu Nguyen, Linh Tran, Truong-Son Van
- Emails:
 - tan.le@fulbright.edu.vn
 - trunghieu.nguyen@fulbright.edu.vn
 - linh.tran@fulbright.edu.vn
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- Class time: Fri 8AM - 11AM
- Class Location: CRES CR 2
- Prerequisites: at least one 300-level course

References

- Dr. Tan Le:
- Dr. Hieu Nguyen:
- Dr. Linh Tran:
- Dr. Truong-Son Van:

Course description

This is a research seminar aimed at students who wish to major in mathematics. In this course, mathematics faculty will first take turns presenting research problems in their respective fields of expertise. The goal is to expose students to different lines of research in mathematics so that interested students may choose a potential topic to explore for Senior Capstone. After the faculty's presentations, each student will choose a topic that was introduced by a faculty and present assigned readings. The goal of this part is to help students learn how to synthesize and convey ideas of other peoples' work. Along the way, students will learn how to apply learned mathematical concepts to understand complex research topics.

Schedule

Date	Topic	Presenter
01/19	Introduction to research	All faculty
01/19	Introduction to partial differential equations	Dr. Truong-Son Van
01/26	Some popular topics in financial mathematics	Dr. Tan Le
02/02	Some topics in numerical mathematics	Dr. Hieu Nguyen
02/02		Dr. Linh Tran

Assessment

During the course, students are expected to compute their own percentage points based on the following scheme. The instructor is not responsible for providing the running percentage.

Form of assessment	Weight
Participation	40%
First presentation	30%
Second presentation	30%

The following is the letter grade breakdown. It is based on common practice in the United States.

Letter Grade	Percentage
A	[93,100]
A-	[90,93)
B+	[87,90)
B	[83,87)
B-	[80, 83)
C+	[77,80)
C	[73,77)
C-	[70,73)
D+	[67,70)
D	[60, 66)
F	[0,60)

Collaboration & Plagiarism

Plagiarism is the act of submitting the intellectual property of another person as your own. It is one of the most serious of academic offenses. Acts of plagiarism include, but are not limited to:

- Copying, or allowing someone to copy, all or a part of another person's work and presenting it as your own, or not giving proper credit.
- Purchasing a paper from someone (or a website) and presenting it as your own work.
- Re-submitting your work from another course to fulfill a requirement in another course.

Further details can be found in the Code of Academic Integrity [link].

Learning Support

In addition to your course instructors, there are other resources available to support your academic work at Fulbright, including one-on-one consultations with learning support staff, supplementary workshops, and both individual and group tutoring and mentoring in course content, language learning, and academic skills. If you would like to request learning support, please contact Fulbright Learning Support (<https://learning-support.notion.site>).

Wellbeing

Mental health and wellbeing are essential for the success of your academic journey. The Fulbright Wellness Center provides various services including counseling, safer community, and accessibility services. If you are experiencing undue personal or academic stress, are feeling unsafe, or would like to know more about issues

related to wellbeing, please contact the Wellness Center via wellness@fulbright.edu.vn or visit the Wellness Center office on Level 5 of the Crescent campus.

For more information, please check <https://onestop.fulbright.edu.vn/s/article/Health-and-Wellness-Introduction>