MATH-5211-SDE STOCHASTIC PDES IN PORTFOLIO MANAGEMENT SPRING/SUMMER 2021

Instructor: Prof. Xin Yang Lu email: xlu8@lakeheadu.ca Classes: reading course

Office Hours: by appointment via email

DESCRIPTION

- Textbook: Stochastic Calculus and Financial Applications, by J. Michael Steele
- Content: Random Walk and First Step Analysis, First Martingale Steps, Brownian Motion, The Next Steps of Martingales, Ito Integration and Ito's formula, Stochastic Differential Equations, Arbitrage and SDEs, Arbitrage and Martingales.
- Midterm: 1 midterm exam counting for 35% of the final grade.
- Final Exam: There will be a final exam which will count for 65% of the final grade. There will be NO 100% final option.
- Policies:
 - Important announcements will be made through MyCourseLink to registered students via MyCourseLink. You are responsible for reading the info posted on MyCourseLink.
 - I attempt to reply to e-mail in a timely fashion, but do not expect immediate responses.
- Academic Dishonesty: All cases of academic dishonesty will be dealt with according to the university's Code of Student Behavior and Disciplinary Procedures, copies of which are available from the university's web-site
- Accommodations: Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please visit: http://studentaccessibility.lakeheadu.ca