

**MATH-5211-SDF MONTE CARLO METHODS IN FINANCE
SPRING/SUMMER 2021**

Instructor: Prof. Xin Yang LU

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Classes: reading course

Office Hours: by appointment via email

DESCRIPTION

- **Textbook:** Monte Carlo Methods in Financial Engineering, by P. Glassermann
- **Content:** Principles of Monte Carlo, Principles of Derivatives Pricing, Generating Random Numbers and Random Variables, Generating Sample Paths, Variance Reduction Techniques, Quasi-Monte Carlo.
- **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>