This course addresses the following three topics:

1. Monte Carlo Methods for Early Exercise Derivatives (American Options, Game Options.)
2. Interest Rate Models
3. Credit Risk Modeling.

Recent research papers on these areas will be reviewed. Students are expected to implement major results from some reference papers. No textbooks. Papers and course notes will be provided.

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Prerequisites:
Stochastic Financial Theory, Continuous-Time Finance, or equivalent courses.

Grading:
Assignments 30%, Exams(midterm and final) 50%, Course Project 20%.