2017 Spring: AMS-517  Quantitative Risk Management

Instructor:

Haipeng Xing

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Office hours:  M, 11:30am-2:30pm

Course Website:

http://www.ams.sunysb.edu/~xing/AMS517/index.html

Time and Locations:

MW, 10-11:30am

Recommended Textbook


Grading policy:

There will be about 4 homework (20%), two midterms (40%) and term project and presentation (40%).

Late homework is NOT accepted.

Two exams will be held around the end of February and the second week of April 11, and no makeup exams under any circumstance.

Course description

This selective course in quantitative finance covers intensively various topics in quantitative risk management and related statistical tools.

Economic principles of risk management

Market risk

Statistical modeling of time-to-default

Econometric modeling of default risk
Ratings-based models of credit risk

Correlated default: Frailty and contagion

Bank regulation

**Disability policy:**

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact the Disability Support Services (DSS) office. DSS is located in the Educational Computing Center (ECC) building, location D5 on the campus map. Their phone number is 632-6748/9. They will review your concerns and determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

**Academic Integrity Policy:**

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Any suspected instance of academic dishonesty will be reported to the appropriate academic review board. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/uaa/academicjudiciary/

**University Policy:**

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.