PREDICTIVE ANALYTICS AND RISK MANAGEMENT: ENTERPRISE RISK MANAGEMENT, MS

for the Master of Science in Predictive Analytics and Risk Management, Enterprise Risk Management concentration

Department chair: Vera Hur  
Director of Graduate Studies: Yuliy Baryshnikov  
Overview of Admissions & Requirements: https://grad.illinois.edu/admissions/apply  
Department website: http://www.math.illinois.edu  
Program website: https://math.illinois.edu/admissions/graduate-program-mathematics-admissions#MS-ActSci  
Department faculty: https://math.illinois.edu/research/faculty-research/actuarial-science  
College website: https://las.illinois.edu/  
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Prepares students for the nascent profession of predictive analytics; it provides background and skill sets for data analytics with focus on financial and insurance industries. A student successfully finishing the program will typically have acquired a broad foundation of machine learning and predictive modeling techniques to forecast outcomes and glean valuable insights that can lead to better-informed business and investment decisions.

The assessment of the above-stated learning objectives will include:

- the job placement/graduate school acceptance rates
- feedback from employers
- graduate satisfaction surveys

These assessments will be conducted on an annual basis. We conduct exit surveys on all students each year, which should provide data on graduate students' job placement and graduate school acceptance rates. On the survey we will design questions to assess student's overall evaluation of these learning objectives. The curriculum was developed in close collaboration with industry partners. We expect to maintain close relationship with them and seek their feedback on the quality of our graduates on a regular basis.

Graduate Degree Programs in Mathematics

- Actuarial Science, MS (http://catalog.illinois.edu/graduate/las/actuarial-science-ms/)
- Applied Mathematics, MS (http://catalog.illinois.edu/graduate/las/applied-mathematics-ms/)
- Mathematics, MS (http://catalog.illinois.edu/graduate/las/mathematics-ms/)
- Predictive Analytics and Risk Management, MS (http://catalog.illinois.edu/graduate/las/predictive-analytics-risk-management-ms/)
- Enterprise Risk Management (p. 1)  
- Financial and Insurance Analytics (http://catalog.illinois.edu/graduate/las/predictive-analytics-risk-management-ms/financial-insurance-analytics/)
- Mathematics, PhD (http://catalog.illinois.edu/graduate/las/mathematics-phd/)

Optional Concentrations:

- Actuarial Science & Risk Analytics (http://catalog.illinois.edu/graduate/las/mathematics-phd/actuarial-science-risk-analytics/)
- Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
- Teaching of Mathematics, MS (http://catalog.illinois.edu/graduate/las/teaching-mathematics-ms/)