



## **MS in Enterprise Risk Management Course Descriptions**

### **ERM 5000 Fundamentals of Global Enterprise Risk Management**

This course introduces students to the conceptual models, methods and tools of global enterprise risk management (ERM). Students will explore how the risk management function provides an international, enterprise-wide, and cross-functional vantage point and how firms enhance value through strategic use of the risk management function. Students will gain an understanding of how the complexities of risk can be analyzed, quantified, and effectively reported and managed.

### **ERM 5100 Enterprise Risk Planning and Compliance**

A robust commitment to compliance and risk management can prevent potential litigation and mitigate exposures to liability. Effective risk management depends on early identification and analyses of risks, early implementation of corrective actions and continuous monitoring and reassessment as well as communication, documentation, and coordination. This course will provide students with a solid understanding of international standards and best practices in risk management and compliance. The course will cover corporate governance principles and international best practices, including risk management law and practice. Both theory and practice will be explored, together with specific issues in the implementation and execution of corporate compliance programs.

### **ERM 5200 Financial Management**

This course will address corporate finance and investment decision making. Students will develop an understanding of the financial mechanics involved in the establishment of companies, projects, and valuations and in how funding is raised and managed. Particular focus will be placed on how investment decisions are made and how real world opportunities and risks impact those decisions.

### **ERM 5300 Quantitative and Qualitative Decision-Making**

This course will provide an introduction to basic mathematical and statistical methods and models—as well as their software applications—for solving business problems and decision-making. Topics will include: estimating, probability and probability distributions, decision analysis, hypothesis testing, forecasting and linear regression, linear programming, waiting line models, decision theory, transportation and assignment models, and inventory management and queuing theory models.

### **ERM 5400 Business Continuity Planning and Crisis Communication**

This course introduces students to the conceptual models, methods and tools of enterprise Business Continuity Management (BCM) and a key component, Global Crisis Communications Management. Students will be exposed to industry best practices and guidelines as developed by international BCM governance and organizations like the Business Continuity Institute (BCI) and the Disaster Recovery Institute (DRI) International. Students will explore how the BCM function provides an enterprise-wide, cross-border, and



cross-functional vantage point and how organizations enhance organizational resilience through the strategic use of both the business continuity and cross-cultural crisis communications functions. Students will also review the many crisis communication management tools in use today, including emergency notification systems (ENS), as well as other international standards and crisis management plans.

### **ERM 5600 Financial Risk Modeling**

This course brings together the model-oriented approach of the risk management discipline and economists' approaches to the same issues. Quantitative analysis and economics are used to convey a common approach to risk management. Students will build an understanding of how global financial markets work so that they can apply risk management techniques effectively. The course will also provide an institutional, historical, and international context for risk management issues and will include data from a variety of public- and private-sector sources.

### **ERM 6000 Emergency Management & Disaster Recovery**

This course examines Organizational Emergency Management & Systems Disaster Recovery, with an emphasis on the importance to an organization of having an emergency management & global IT disaster recovery plan. Major topics include planning for crises, developing levels of preparation, identifying factors that need to be managed, forecasting potential crisis situations, and examining key elements of an emergency management & IT disaster recovery plan.

### **ERM 6050 CyberSecurity and CyberTerrorism**

This CyberSecurity and CyberTerrorism fundamentals course will introduce students to the principles of data and technology that frame and define cybersecurity. Students will gain insight into the importance of cybersecurity and the integral role of cybersecurity professionals. Students will explore foundational cybersecurity principles, security architecture, risk management, attacks, incidents, and emerging IT and IS technologies.

### **ERM 6100 Insurance Risk Management**

Insurance is one of the primary mechanism by which risk is managed within developed societies. This course will address the applications of risk management– including commercial risk, personal risk, and public risk–and the current marketplace for insurance products. This will include a review of the insurance industry's role in the economy, financial markets, and overall business. Students will analyze the processing, investing, and evaluation of risk management and will explore the contractual aspects of insurance policies and how claims are generated and managed.

### **MAN 5580 Project Management**

This course teaches project management using several tools from the leading methodologies for managing software projects. The most effective project managers will



combine methods to create a “right- sized” methodology appropriate to the organizational culture and project team members’ background and experience.

### **ERM 6300 Special Topics**

This course provides the opportunity to offer boutique short-term courses on emerging phenomena, policies, processes, technologies, and techniques in enterprise risk management. The expectation is that this will be an advanced class that requires an appropriate student project and deliverable in line with the number of credits awarded for the course.

### **ERM 6400 Internship**

This course consists of an off-campus internship experience supervised by a staff person at the internship site and overseen by a faculty advisor. The internship site must be approved by the program director, and the overall duration of the work must be no less than 150 hours of student work. At the start of the internship, the student and faculty advisor will jointly develop specific learning objectives tailored to the nature of the internship. Over the course of the internship, students will be required to submit weekly reflections, and at the end of the internship, students write a final paper that represents the culmination of the work performed.

### **ERM 6500 Capstone**

In this course, students will integrate the skills developed in the previous classes into a comprehensive body of knowledge, and provide tangible evidence of these competencies. The Capstone will include four components: 1) a brief proposal and project schedule; 2) the main project deliverable; 3) a final presentation; and 4) a reflection on the student’s ERM skills and competencies. For the project, students will identify a real-world problem, then analyze, design, and implement a professional-quality solution. In addition, students will articulate the value and practical challenges for the ERM solution. Students may work either independently or in a group (no larger than three, with the permission of the instructor), selecting a subject that is in line with the student’s career aspirations, and ideally building on ideas and work that began in other classes. Students will present their project to the ERM community, including faculty and students.