Risk Management and Insurance (RMI)

Courses

RMI 5051. Managing Risk. 1 to 3 Credit Hour.
Risk Management requires the firm to identify opportunities for gain and exposures to unexpected loss. The firm must then assess the potential consequences, and plan to finance the consequences of the adverse event if it happens. This course is designed to introduce the risk management process in the context of general corporate management. Each step in the process will be reviewed in detail, including setting the risk management context, identification of risk, measurement and analysis of potential impact, and appropriate treatment techniques. Risk financing options will be discussed in the context of global insurance and alternative capital markets. While the risk management process encompasses all types of risks, we will focus our identification discussion on the class of risks known as pure risk events; those that pose the threat of a loss if they happen, but no possibility of a gain.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.
College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School.
Repeatability: This course may not be repeated for additional credits.

RMI 5101. Managing Human Capital. 3 Credit Hours.
Analysis of the major areas in non-pension employee benefits. Reviews overall considerations in employee benefit design including federal and state regulation, group insurance and the group insurance technique, sources of healthcare benefits, HMOs, PPOs, managed care systems and disability income benefits. Considers flexible benefits plans and funding considerations. Income tax implications and healthcare cost containment issues are also examined. Group and individual life insurance theory and practice and their use in employee benefits plans. Note: Prior to fall 2017, the course title was “Life and Health Insurance and Employee Benefits”.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.
Repeatability: This course may not be repeated for additional credits.
Pre-requisites:
RMI 5301|Minimum Grade of B|May not be taken concurrently
OR RMI 5401|Minimum Grade of B|May not be taken concurrently
OR RMI 5051|Minimum Grade of B|May not be taken concurrently.

RMI 5102. Retirement Plans. 3 Credit Hours.
Composed of two sections: 1) Reviews basic features and defined contribution approaches of retirement income. Examines sponsor objectives served by the creation of qualified retirement plans, tax and non-tax qualification requirements, and individual account retirement plans. Subjects: profit sharing plans, Section 401(k) and 403(b), employee stock ownership, cash balance, simplified employee pension, and executive retirement arrangements. 2) explores defined benefit plans and plan administration, fundamentals of pension plans with emphasis on the defined benefit approach to providing retirement income. Subjects: plan design, actuarial aspects (costs and funding), investment of plan assets, and plan termination insurance. Provides a basic foundation of retirement income.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.
Repeatability: This course may not be repeated for additional credits.

RMI 5103. Health Risks. 3 Credit Hours.
Focuses on: 1) special characteristics of risk management in healthcare institutions/agencies; 2) health insurance issues (as benefit for patients and revenue source for providers); 3) health economics (macro) as related to above.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.
Repeatability: This course may not be repeated for additional credits.
RMI 5104. The Role of Property and Casualty Insurance Sector in Enterprise Risk Management. 3 Credit Hours.
Provides a graduate level introduction to the property-liability insurance industry. Attention given to structure of marketplace, regulatory framework, and relationship between the property-liability insurance industry and the firms which it protects. Discusses issues effecting the industry from an economic, legal, and public policy. Applications include product liability, environmental impairment liability, and worker's compensation issues. Note: Prior to fall 2017, the course title was "Property and Liability Insurance".

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites:
RMI 5301|Minimum Grade of B|May not be taken concurrently
OR RMI 5401|Minimum Grade of B|May not be taken concurrently
OR RMI 5051|Minimum Grade of B|May not be taken concurrently.

RMI 5105. Advanced Applications in Risk Management. 3 Credit Hours.
Divided into five parts. 1) reviews statistical distributions common in insurance e.g., negative binomial, pareto, and log normal distributions and evaluates their ability to model long-tail losses. 2) considers inferences from insurance data, e.g., the fitting of theoretical distributions using the method of moments and maximum and credibility theory. 3) considers loss reserve runoffs and forecasting future. 4) applies portfolio theory (including correlation analysis) to show the relationship between firm value (net worth) and insurance purchases. 5) reviews discounted cash flow techniques to determine premiums and illustrate financial aspects of captive formation.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

RMI 5106. Adv Risk Mgmt Models. 3 Credit Hours.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

RMI 5107. Risk Management, Governance and the Role of the Board. 3 Credit Hours.
Large scale failures of firms such as Enron, WorldCom, Adelphia, and a long list of others are widely viewed as failures of corporate governance. These cases have drawn significant regulatory attention to the role of corporate governance in preventing or contributing to those failures. One outcome of this increasing scrutiny is the emergence of Enterprise Risk Management (ERM) as a framework for managing risk while maximizing shareholder value in today's complex environment. Board members and senior officers are facing increasing scrutiny of their ERM processes from ratings organizations, standards setting agencies, regulators, clients and investors. Each of these has expectations for the role that the Board of Directors plays in managing risk across the organization. This course will focus on the relationship between corporate governance and ERM, using case analysis and discussion of both US and international governance and ERM standards, and Directors' and Officers' liability.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites:
RMI 5301|Minimum Grade of B|May not be taken concurrently
OR RMI 5401|Minimum Grade of B|May not be taken concurrently
OR RMI 5051|Minimum Grade of B|May not be taken concurrently.

RMI 5108. International Risk Management. 3 Credit Hours.
The risks of doing business in international markets continue to increase. Emerging, developing, and developed markets are becoming less open to foreign direct investment, joint ventures/partnerships, and even imports since the global recession began in 2008. In addition, regulatory risk, corruption, and supply chain disruptions are on the increase. Natural and environmental disasters, cyber-attacks, and geopolitical conflicts are important concerns as well. This course will examine a sample of the risks facing firms operating in the global marketplace. We will use the enterprise risk management framework to identify some significant risks facing firms operating outside their home markets and the strategies, including insurance, that can be used to help mitigate against those risks.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites:
RMI 5301|Minimum Grade of B|May not be taken concurrently
OR RMI 5401|Minimum Grade of B|May not be taken concurrently
OR RMI 5051|Minimum Grade of B|May not be taken concurrently.
RMI 5109. Operational and Strategic Risk Management. 3 Credit Hours.
This course includes the study of both Strategic and Operational Risk Management. Operational Risk, broadly speaking, arises from the management of human capital, operational processes and systems including but not limited to other specialized functions such as managing information technology, physical security, supply chain, and environmental health and safety. This course will review and discuss these risks in detail. The curriculum includes the application of risk analysis frameworks and metrics; the development of common mitigation techniques, such as IT security, risk financing, business continuity planning and implementation; and, will examine the most common operational factors that give rise to risk that may cause firms to fail. This course will also review and discuss operational risk management case studies. Strategic Risk Management, according to the Risk and Insurance Management Society, is a business discipline that drives deliberation and action regarding uncertainties and untapped opportunities that affect an organization's strategy and execution. The strategic planning process results in the firm making significant investments to address stakeholder needs and drive long term growth. This begs the question: how can a firm set its overall appetite for risk, and evaluate competing strategic initiatives from a risk/reward perspective in the context of its existing portfolio of risks? The second half of the course will, therefore, explore the connections between strategy and enterprise risk management, including the concepts of risk capacity, risk appetite/tolerance, and risk profile. It will also look at the role of enterprise risk management in effective decision-making and governance from the perspective of a firm's board of directors. Finally, this course will explore several Strategic Risk Management cases including the exploration of how corporate boards address risks that can lead to stakeholder litigation and possible bankruptcy because of damage to reputation, failed mergers, and failure to innovate.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

Pre-requisites:
RMI 5301|Minimum Grade of B|May not be taken concurrently
OR RMI 5401|Minimum Grade of B|May not be taken concurrently
OR RMI 5051|Minimum Grade of B|May not be taken concurrently.

RMI 5170. Special Topics. 1 to 6 Credit Hour.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

RMI 5182. Independent Study. 1 to 6 Credit Hour.
Special study in a particular aspect of insurance and risk under the direct supervision of appropriate graduate faculty member. No more than six hours of independent study may be counted toward degree requirements.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

RMI 5190. Special Topics - Risk Management and Insurance. 1 to 6 Credit Hour.
Special topics in risk management and insurance.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

RMI 5282. Independent Study. 1 to 3 Credit Hour.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

RMI 5301. Enterprise Risk Management. 1.5 Credit Hour.
Effective risk management is an integral part of an efficient and successful organization. Risk Management cuts across all disciplines and all levels, throughout the organization. For a firm to be successful in today’s global economy, risk management must be tightly tied to firm strategy. Risk management is focused on maximizing the firm's value rather than avoiding adverse consequences. Enterprise risk management identifies and manages all serious risks across an organization in a coordinated way. Risk Management requires the firm to identify opportunities for gain and exposures to unexpected loss. The firm must then assess the potential consequences, and plan to manage the consequences of an adverse event if it happens.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School.

Repeatability: This course may not be repeated for additional credits.
Risk Management and Insurance (RMI)

RMI 5401. Enterprise Risk Management. 1.5 Credit Hour.
Effective risk management is an integral part of an efficient and successful organization. Risk Management cuts across all disciplines and all levels, throughout the organization. For a firm to be successful in today’s global economy, risk management must be tightly tied to firm strategy. Risk management is focused on maximizing the firm’s value rather than avoiding adverse consequences. Enterprise risk management identifies and manages all serious risks across an organization in a coordinated way. Risk Management requires the firm to identify opportunities for gain and exposures to unexpected loss. The firm must then assess the potential consequences, and plan to manage the consequences of an adverse event if it happens.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.
College Restrictions: Must be enrolled in one of the following Colleges: Business & Mngmnt, Fox School.

Repeatability: This course may not be repeated for additional credits.

RMI 5801. Enterprise Risk Management. 3 Credit Hours.
This course is designed to introduce the risk management process in the context of general corporate management. Each step in the process will be reviewed in detail, including setting the risk management context, identification of risk, measurement and analysis of potential impact, and appropriate treatment techniques. Risk financing options will be discussed in the context of global insurance and alternative capital markets.

Department Restrictions: Must be enrolled in one of the following Departments: Business: Fox School Business.
Level Registration Restrictions: May not be enrolled in one of the following Levels: Undergraduate.

Repeatability: This course may not be repeated for additional credits.

RMI 5882. Independent Study. 1 to 6 Credit Hour.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

RMI 5890. Special Topics - RMI. 1 to 6 Credit Hour.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

RMI 9001. Seminar-Property and Liability Insurance Markets. 3 Credit Hours.
In this course, economic, financial, and legal research issues in property-liability insurance are examined. Economic issues explored include (but are not limited to) corporate demand for insurance, domestic and international underwriting cycles, risk classification, and adverse selection. Coverage of pricing, profits, and regulation of insurers explicitly incorporate financial principles, including option pricing, discounted cash-flow ratemaking methods, and the capital asset pricing model. Legal issues focus on liability principles and tort reform. Students will learn institutional features of property-liability insurance to the extent necessary to interpret the research covered.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

RMI 9002. Seminar-Life Insurance and Employee Benefits. 3 Credit Hours.
A workshop approach is used to study the financial aspects of retirement plans, the macroeconomics aspects of pensions and health plans in the context of an aging population, and the microeconomics of retirement and income security. Students learn the steps needed to formulate a research strategy, including writing a proposal, developing hypotheses, and determining empirical tests of these hypotheses.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

RMI 9003. Seminar in Risk Theory. 3 Credit Hours.
Readings will cover the basic mathematical theory of risk: utility-theoretic foundations, finite-horizon individual and collective risk models, infinite horizon models, and the role of reinsurance. Students will make presentations or write papers on areas of current research activity, such as: applications of diffusion processes, the use of insurance-based securities, and the impact of risk-based capital regulatory requirements.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.
RMI 9004. Healthcare Finance and Insurance. 3 Credit Hours.
This seminar provides a set of technical skills and knowledge base for the analysis of healthcare financing in different countries. It is designed to be of use to those working: in Ministries of Health, Ministries of Finance, or private insurance companies around the globe; in the economics and marketing departments of international pharmaceutical companies; or on the staff of international agencies. There will be a series of short assignments, two papers, and an exam. It is anticipated that some students will use the assignments as a starting point for their dissertation proposals.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may not be repeated for additional credits.

RMI 9005. Law and Economics of Liability Markets. 3 Credit Hours.
This seminar will cover the theoretical and empirical literature of the law and economics of liability. Insurance and tort (and their interaction) are the two major compensations systems and will be a focal part of the class, but others such as administrative compensation funds will be discussed. The first half of the class will focus on the economic theory underlying liability and liability financing. The second half of the class will focus on empirical studies of the law and economics of various markets and public policy responses to liability issues.

Degree Restrictions: Must be enrolled in one of the following Degrees: Doctor of Philosophy.

Repeatability: This course may not be repeated for additional credits.

RMI 9090. Spec Topic Risk Mgt. 1 to 6 Credit Hour.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.

RMI 9183. Directed Study-Risk Mgt. 1 to 6 Credit Hour.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate.

Repeatability: This course may be repeated for additional credit.