

## IMIX Course Outline/ Module Overview Protocol

**Title:** Enterprise Risk Management

**Length:** 3 days

### Course Scope and Mission

This course studies risk management from a holistic perspective for various institutions (i.e. non-financial and financial). Various risk categories will be considered such as cyber risk, operational risk, market risk, energy risk, technology risk, financial risk, etc. Cases and frameworks will be integrated into the course.

### Illustrative Topics

- Enterprise Risk Management - Implementing an ERM Program, Governance Structure and Policies, Risk Assessment and Quantification, Risk Monitoring and Reporting
- Cyber Risk Management – Costs and Preparation, Measurement, Rules and Regulation, Cyber Resilient Organization, Insurance and Security Technology
- Energy Risk Management – Energy Cycle, Risks in the Cycle, Major Sources of Energy and Markets for Energy Products
- Information Technology Risk Management – Information Security Risk Management Standards and Methodologies, Identifying Assets and Organization Risk Exposures

### Required Readings

Lam, J., Implementing Enterprise Risk Management: From Methods to Applications, Wiley, March 2017, ISBN: 978-1-118-23536-2

Lam, J., Enterprise Risk Management: From Incentives to Controls, 2nd Edition, Wiley, January 2014, ISBN: 978-1-118-83443-5

Various cases and articles (e.g. Harvard, Ivey, etc.)

### Recommended References

Coburn, A., Leverett, E., Woo, Go., Solving Cyber Risk: Protecting Your Company and Society, Wiley, December 2018, ISBN: 978-1-119-49092-0

GARP (Global Association of Risk Professionals), Foundations of Energy Risk Management: An Overview of the Energy Sector and Its Physical and Financial Markets, Wiley, December 2008, ISBN: 978-0-470-44782-6

Kouns, J., Minoli, D., Information Technology Risk Management in Enterprise Environments: A Review of Industry Practices and a Practical Guide to Risk Management Teams, Wiley, October 2011, ISBN: 978-1-118-21161-8

Louisot, J.P., Ketcham C.H., ERM - Enterprise Risk Management: Issues and Cases, Wiley, March 2014, ISBN: 978-1-118-53951-4

Coleman, T.S., A Practical Guide to Risk Management, Research Foundation of CFA Institute, 2011, ISBN 978-1-934667-41-5

Hull, J.C., Risk Management and Financial Institutions, 5th Edition, Wiley, 2018, ISBN: 978-1-119-44811-2

### Evaluation and Grades

<b>Work Type</b>	<b>Deliverable</b>	<b>Weighting</b>	<b>Due Date</b>
Individual or Pair	Assignment #1	25%	Day 2 (11:59pm)
Individual or Pair	Assignment #2	25%	Night before Day 3
Individual	Test	25%	Day 3 (Afternoon Session)
Group (3 to 4 members)	Case Write-Up, Debrief and Feedback	25%	Day 3 (11:59pm)

### Schedule

<b>Session</b>	<b>Topic</b>
Day 1 (Morning)	<b>Enterprise Risk Management</b>
Day 1 (Afternoon)	<b>Financial Risk Management</b>
Day 2 (Morning)	<b>Energy Risk Management</b>
Day 2 (Afternoon)	<b>Information Technology / Cyber Risk Management</b>
Day 3 (Morning)	<b>Information Technology / Cyber Risk Management</b>
Day 3 (Afternoon)	<b>Case Studies</b>