

# **FRMP-2** Changes in Syllabus 220225

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-Amini Bajaj

CA, CS, CFA, FRM, CAIA, CIPM, CFP, RV, CCRA, CIIB, CIRA, AIM

# FRM P2 | Summary of Changes | 2025

	New	Changes	Deleted
	No. of Chapters	No. of LOS	% of Total
Same	82	533	91%
New	11	47	8%
Changes	11	6	1%
Total	104	586	100%
Deleted	10	53	9%

Reading	Reading Name	No. of LOS			
Kedding	Kedding Name	New	Changes	Deleted	
4	Backtesting VaR	1		1	
5	VaR Mapping		1		
6	Validation of Risk Management Models for Financial Institutions	4			
7	Beyond Exceedance-Based Backtesting of Value-at-Risk Models	4			
11	Regression Hedging and Principal Component Analysis	1			
13	Expectations, Risk Premium, Convexity, and the Shape of the Term Structure	1			
16	The Vasicek and Gauss Models	4			
23	Introduction to Credit Risk Modeling and Assessment		1		
48	Integrated Risk Management		1		
70	Liquidity and Reserves Management-Strategies and Policies			2	
81	The US Dollar Shortage in Global Banking and the International Policy Response	1		1	
84	Illiquid Assets		1		
88	Portfolio Construction		1		
89	Portfolio Risk-Analytical Methods		1		
96	2023 Bank Failures, Preliminary lessons learnt for resolution	4			
97	Generative Artificial Intelligence in Finance-Risk Considerations	4			
98	Artificial intelligence and the economy-implications for central banks	4			
99	Interest Rate Risk Management by EME Banks	3			
100	Laying a robust macro-financial foundation for the future	5			
101	The Rise and Risks of Private Credit	4			
102	Monetary and fiscal policy-safeguarding stability and	3			
103	Regulating the Crypto Ecosystem-The Case of Unbacked Crypto Assets	4			
-	Basel Committee on Banking Supervision			6	
-	Review of the Federal Reserves Supervision and Regulation of Silicon Valley Bank			6	
-	The Credit Suisse CoCo Wipeout-Facts, Misperceptions, and Lessons for Financial Regulation			4	
-	Artificial Intelligence and Bank Supervision			4	
-	Financial Risk Management and Explainable, Trustworthy, Responsible Al			5	
-	Artificial Intelligence Risk Management Framework			5	

Reading	Reading Name	No. of LOS				
Reduing	Kedding Nulle	New	Changes	Deleted		
-	Climate-Related Risk Drivers and their Transmission Channels			4		
-	Climate-Related Financial Risks-Measurement Methodologies			6		
-	Principles for the Effective Management and Supervision of Climate-Related Financial Risks			4		
-	The Crypto Ecosystem-Key Elements and Risks			3		

LOS	WISE	CHAN	<b>IGES</b>

		New	Changes	Deleted
Subject	Reading No 2025	Reading Name	Details of Changes 25	Reading No 2024
	1	Estimating Market Risk Measures-An Introduction and Overview		1
	2	Non-Parametric Approaches		2
	3	Parametric Approaches II-Extreme Value		3
	4	Backtesting VaR	1 LOS New 1 LOS Deleted	4
	5	VaR Mapping	1 LOS Changes	5
	6	Validation of Risk Management Models for Financial Institutions		
	7	Beyond Exceedance-Based Backtesting of Value-at-Risk Models		
	8	Correlation Basics-Definitions, Applications, and Terminology		7
	9	Empirical Properties of Correlation-How Do Correlations Behave in the Real World		8
	10	Financial Correlation Modeling-Bottom-Up Approaches		9
Market Risk	11	Regression Hedging and Principal Component Analysis	1 LOS New Earlier Name - Empirical Approaches to Risk Metrics and Hedging	10
	12	Arbitrage Pricing with Term Structure Models	Earlier Name - The Science of Term Structure Models	11
	13	Expectations, Risk Premium, Convexity, and the Shape of the Term Structure	1 LOS New Earlier Name - The Evolution of Short Rates and the Shape of the Term Structure	12
	14	The Art of Term Structure Models-Drift		13
	15	The Art of Term Structure Models-Volatility and Distribution		14
	16	The Vasicek and Gauss Models		
	17	Volatility Smiles		15
	18	Fundamental Review of the Trading Book		16
	-	Basel Committee on Banking Supervision		6
	19	Fundamentals of Credit Risk		17
	20	Governance		18
	21	Credit Risk Management		19
Credit Risk	22	Capital Structure in Banks		20
	23	Introduction to Credit Risk Modeling and Assessment	1 LOS Changes	21
	24	Credit Scoring and Rating		22
	25	Credit Scoring and Retail Credit Risk Management		23
	26	Country Risk-Determinants, Measures, and Implications		24

Subject	Reading No 2025	Reading Name	Details of Changes 25	Reading No 2024
	27	Estimating Default Probabilities		25
	28	Credit Value at Risk		26
	29	Portfolio Credit Risk		27
	30	Credit Risk		29
	31	Credit Derivatives		30
	32	Derivatives		31
	33	Counterparty Risk and Beyond		32
Credit Risk	34	Netting, Close-out and Related Aspects		33
	35	Margin Collateral and Settlement		34
	36	Central Clearing		35
	37	Future Value and Exposure		36
	38	CVA		37
	39	The Evolution of Stress Testing Counterparty Exposures		38
	40	Structured Credit Risk		28
	41	An Introduction to Securitisation		39
	42	Introduction to Operational Risk and Resilience		40
	43	Risk Governance		41
	44	Risk Identification		42
	45	Risk Measurement and Assessment		43
	46	Risk Mitigation		44
	47	Risk Reporting		45
	48	Integrated Risk Management	1 LOS Changes	46
	49	Cyber-resilience-Range of practices		47
	50	Case Study-Cyberthreats and Information Security Risks		48
Operational	51	Sound Management of Risks related to Money Laundering and Financing of Terrorism		49
Risk	52	Case Study-Financial Crime and Fraud		50
	53	Guidance on Managing Outsourcing Risk		51
	54	Case Study-Third-Party Risk Management		52
	55	Case Study-Investor Protection and Compliance Risks in Investment Activities		53
	56	Supervisory Guidance on Model Risk Management		54
	57	Case Study-Model Risk and Model Validation		55
	58	Stress Testing Banks		56
	59	Risk Capital Attribution and Risk-Adjusted Performance Measurement		57
	60	Range of Practices and Issues in Economic Capital Frameworks		58
	61	Capital Planning at Large Bank Holding Companie-Supervisory Expectations and Range of Current Practice		59

Subject	Reading No 2025	Reading Name	Details of Changes 25	Reading No 2024
	62	Capital Regulation Before the Global Financial Crisis		60
Operational Risk	63	Solvency, Liquidity, and Other Regulation After the Global Financial Crisis		61
	64	High-Level Summary of Basel III Reforms		62
	65	Basel III-Finalising Post-Crisis Reforms		63
	66	Liquidity Risk		64
	67	Liquidity and Leverage		65
	68	Early Warning Indicators		66
	69	The Investment Function in Financial-Services Management		67
	70	Liquidity and Reserves Management-Strategies and Policies	2 LOS Deleted	68
	71	Intraday Liquidity Risk Management		69
	72	Monitoring Liquidity		70
	73	The Failure Mechanics of Dealer Banks		71
	74	Liquidity Stress Testing		72
	75	Liquidity Risk Reporting and Stress Testing		73
Liquidity Risk	76	Contingency Funding Planning		74
	77	Managing and Pricing Deposit Services		75
	78	Managing Non-deposit Liabilities		76
	79	Repurchase Agreements and Financing		77
	80	Liquidity Transfer Pricing-A Guide to Better Practice		78
	81	The US Dollar Shortage in Global Banking and the International Policy Response	1 LOS New 1 LOS Deleted	79
	82	Covered Interest Parity Lost-Understanding the Cross-Currency Basis		80
	83	Risk Management for Changing Interest Rates-Asset-Liability Management and Duration Techniques		81
	84	Illiquid Assets	1 LOS Changes	82
	85	Factor Theory		83
	86	Factors		84
	87	Alpha and the Low-Risk Anomaly		85
	88	Portfolio Construction	1 LOS Changes	86
	89	Portfolio Risk-Analytical Methods	1 LOS Changes	87
Investment Risk	90	VaR and Risk Budgeting in Investment Management		88
	91	Risk Monitoring and Performance Measurement		89
	92	Portfolio Performance Evaluation		90
	93	Hedge Funds		91
	94	Performing Due Diligence on Specific Managers and Funds		92
	95	Predicting Fraud by Investment Managers		93

Subject	Reading No 2025	Reading Name	Details of Changes 25	Reading No 2024
	96	2023 Bank Failures, Preliminary lessons learnt for resolution		
	97	Generative Artificial Intelligence in Finance-Risk Considerations		
	98	Artificial intelligence and the economy-implications for central banks		
	99	Interest Rate Risk Management by EME Banks		
	100	Laying a robust macro-financial foundation for the future		
	101	The Rise and Risks of Private Credit		
	102	Monetary and fiscal policy-safeguarding stability and trust		
	103	Regulating the Crypto Ecosystem-The Case of Unbacked Crypto Assets		
C II	104	Digital Resilience and Financial Stability		103
Current Issues	-	Artificial Intelligence and Bank Supervision		96
	-	Artificial Intelligence Risk Management Framework		98
	-	Climate-Related Risk Drivers and their Transmission Channels		99
	-	Principles for the Effective Management and Supervision of Climate- Related Financial Risks		101
	-	Review of the Federal Reserves Supervision and Regulation of Silicon Valley Bank		94
	-	The Credit Suisse CoCo Wipeout-Facts, Misperceptions, and Lessons for Financial Regulation		95
	-	Financial Risk Management and Explainable, Trustworthy, Responsible Al		97
	-	Climate-Related Financial Risks-Measurement Methodologies		100
	-	The Crypto Ecosystem-Key Elements and Risks		102

## LOS WISE CHANGES

New Changes

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
		Market Risk			
		Estimate VaR using a historical simulation approach	la	la	
•	Estimating	Estimate VaR using a parametric approach for both normal and lognormal return distributions	1b	1b	
	Market Risk	Estimate the expected shortfall given profit and loss (P&L) or return data	1c	1c	
		Estimate risk measures by estimating quantiles	1d	1d	
		Evaluate estimators of risk measures by estimating their standard errors	le	le	
	and Overview	Interpret quantile-quantile (QQ) plots to identify the characteristics of a distribution	1f	1f	
		Apply the bootstrap historical simulation approach to estimate coherent risk measures	2a	2a	
	Non-	Describe historical simulation using non-parametric density estimation	2b	2b	
2	Parametric	Compare and contrast the age-weighted, the volatility-weighted, the		2.	
	Approaches	correlation-weighted, and the filtered historical simulation approaches	2c	2c	
		Identify advantages and disadvantages of non-parametric estimation methods	2d	2d	
		Explain the importance and challenges of extreme values in risk management	3a	3а	
		Describe extreme value theory (EVT) and its use in risk management	3b	3b	
	Parametric	Describe the peaks-over-threshold (POT) approach	3c	3c	
3		Compare and contrast the generalized extreme value (GEV) and POT approaches to estimating extreme risks	3d	3d	
		Discuss the application of the generalized Pareto (GP) distribution in the POT approach	3e	3e	
		Explain the multivariate EVT for risk management	3f	Зf	
		Describe backtesting and exceptions and explain the importance of backtesting VaR models	4a	4a	
		Explain the significant difficulties in backtesting a VaR model	4b	4b	
	Backtostina	Evaluate the accuracy of a VaR model based on exceptions or failure rates by using a model verification test	4c		
4	Backtesting VaR	Identify and describe Type I and Type II errors in the context of a backtesting process	4d	4d	
		Explain the need to consider conditional coverage in the backtesting framework	4e	4e	
		Describe the Basel rules for backtesting	4f	4f	
		Verify a model based on exceptions or failure rates		4c	
		Explain the principles underlying VaR mapping and describe the mapping process	5α	5a	
		Explain how the mapping process captures general and specific risks, and calculate these risks in a portfolio given a set of primitive risk factors	5b	5b	
F	V-D-M	Differentiate among the three methods for mapping portfolios of fixed- income securities	5c	5c	
5	VaR Mapping	Summarize how to map a fixed-income portfolio into positions of standard instruments	5d	5d	
		Describe how mapping of risk factors can support stress testing	5e	5e	
		Explain how VaR can be calculated and used relative to a performance benchmark	5f	5f	reworded
		Describe the method of mapping forwards, forward rate agreements, interest rate swaps, and options	5g	5g	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
3	Validation of	Describe some important considerations for a bank in assessing the conceptual soundness of a VaR model during the validation process	6a		
6 Mana 6 Mod Find	Risk Management	Explain how to conduct sensitivity analysis for a VaR model, and describe the potential benefits and challenges of performing such an analysis	6b		
	Models for Financial	Describe the challenges a financial institution could face when calculating confidence intervals for VaR	6c		
	Institutions	Discuss the challenges in benchmarking VaR models and various approaches proposed to overcome them	6d		
	Beyond	Identify the properties of an exceedance-based backtest that indicate a VaR model is accurate, and describe how these properties are reflected in a PIT-based backtest	7α		
	Exceedance- Based	Explain how to derive probability integral transforms (PITs) in the context of validating a VaR model	7b		
7	Backtesting of Value-at-Risk	Describe how the shape of the distribution of PITs can be used as an indicator of the quality of a VaR model	7c		
	Models	Describe backtesting using PITs, and compare the various goodness-of-fit tests that can be used to evaluate the distribution of PITs: the Kolmogorov- Smirnov test, the Anderson-Darling test, and the Cramér-von Mises test	7d		
		Describe financial correlation risk and the areas in which it appears in finance	8a	7α	
	Correlation Basics- Definitions, Applications, and Terminology	Explain how correlation contributed to the global financial crisis of 2007-2009	8b	7b	
8		Describe how correlation impacts the price of quanto options as well as other multi-asset exotic options	8c	7c	
		Describe the structure, uses, and payoffs of a correlation swap	8d	7d	
		Estimate the impact of different correlations between assets in the trading book on the VaR capital charge	8e	7e	
		Explain the role of correlation risk in market risk and credit risk	8f	7f	
		Explain how correlation risk relates to systemic and concentration risk	8g	7g	reworded
	Empirical Properties of Correlation- How Do Correlations Behave in the	Describe how equity correlations and correlation volatilities behave throughout various economic states	9a	8a	
9		Calculate a mean reversion rate using standard regression and calculate the corresponding autocorrelation	9b	8b	
		Identify the best-fit distribution for equity, bond, and default correlations	9c	8c	
	Financial Correlation	Explain the purpose of copula functions and how they are applied in finance	10a	9a	
10	Modeling- Bottom-Up	Describe the Gaussian copula and explain how to use it to derive the joint probability of default of two assets	10b	9b	
	Approaches	Summarize the process of finding the default time of an asset correlated to all other assets in a portfolio using the Gaussian copula	10c	9c	
		Explain the drawbacks to using a DV01-neutral hedge for a bond position	11a	10a	
		Describe a regression hedge and explain how it can improve a standard DV01-neutral hedge	11b	10b 10c	
	Regression	Calculate the regression hedge adjustment factor, beta Calculate the face value of an offsetting position needed to carry out a	11c		
11	Hedging and Principal	regression hedge Calculate the face value of multiple offsetting swap positions needed to	11d	10d	
	Component	carry out a two-variable regression hedge	11e	10e	
	Analysis	Compare and contrast level and change regressions	11f	1 O f	
		Explain why and how a regression hedge differs from a hedge based on a reverse regression	11g		
		Describe principal component analysis and explain how it is applied to constructing a hedging portfolio	11h	10g	

Name         Idea         Learning Outcome         LOS         LOS         Changes           g No.         Name         Calculate the expected discounted value of a zero-coupon security using a biomain line         LOS         LOS         Changes           12a         Into         Calculate the expected discounted value of a zero-coupon security using a public in the certification of a zero-coupon security using a public into the certification of the c	Readin	Reading		2025	2024	
11         Calculate the expected discounted value of a zero-coupon security using o         12a         11a           112         Define information on participation on a zero-coupon security using replicating portfolios         12b         11b           112         Prime information on participation on a zero-coupon security using replicating portfolios         12c         11c           112         Prime information on a zero-coupon security using replicating portfolios         12c         11c           113         Calculate the principles of robbing pricing of derivatives on fixed.         12c         11c           114         Term Structure         Define option-optional security and participation on a zero-coupon security and participation on the security pricing         12c         11c           116         Arbitrage         Explain how the principles of robbing pricing of derivatives on fixed.         12c         11c           116         Describe the order ondeps and discodurateges of reducing the size of the time securits         12c         11c         11c           113         Calculate the value of a constant-maturity Treasury swop, given an interest         12d         11c         11c           113         Explain the colf periodic derivatives on fixed-income securities         12d         11c         11c           113         Canculate the avorated a constant-maturity resury swop, given an interest <th></th> <th></th> <th>Learning Outcome</th> <th></th> <th></th> <th>Changes</th>			Learning Outcome			Changes
12         Construct and opply an arbitrage argument to price a call option on a zero coopen security using plicing particling         12k         11k           12         File         11k         reworded           Arbitrage         Explain the difference to interact rate drift         11k         reworded           Arbitrage         Explain the difference to interact rate drift         11k         11k         reworded           Arbitrage         Explain how the principles of arbitrage pricing of derivatives on fixed.         12k         11k         11k           Term Structure         Define option-adjusted spreed (OAS) and apply it to security pricing         12k         11k         11k           Calculate the arbitrage pricing of derivatives on fixed-income securities         12k         11k         11k           Explain the role constant-maturity Treasury swap, given an interest         12k         11k         11k           Explain the role of interest rate explaintines of reducing the size of the time structure rate arbitrage pricing of derivatives on fixed-income securities         12k         11k         11k           Explain the role of interest rate explaintines integulity         13k         12k         11k         12k           Explain the components into which the return on a bond can be decomposed, the size of the time structure         13k         12k         12k	9	Nume				
12         Perform elsk-neutral process inter spectral process in the option pricing of a privile to option pricing of apply in this difference to interest role drift filterence to interest role expectations in determining the size of the time role drift filterence to interest role expectations in determining the shape of the filterence role drift filterence to interest role expectations in determining the shape of the filterence role drift filterence to interest role expectations in determining the shape of the filterence role drift filterence role drift filterence to interest role expectations in determining the shape of the filterence role drift filtere			Construct and apply an arbitrage argument to price a call option on a zero-	12b	11b	
112         Exploin the difference between rule and risk-neural probabilities and apply if and intermed to interest rate drift from the principles of arbitrage pricing of derivatives on fixed-income securities can be extended over multiple periods in some securities can be extended over multiple periods in a point to security pricing if it is secur						
112         Arbitrage Pricing with Term Structure         initial difference to interest rote drift income securities can be extended over multiple periods income securities can be extended over multiple periods         12e         11e           111         Term Structure Models         Define option-adjusted spread (OAS) and apply 1to security pricing         12g         11f         11f           112         Arbitrage Pricing with Term Structure         Describe the rotionale behind the use of recombining trees in option pricing         12g         11f         11f           112         Calculate the value of a constant-maturity Treasury swop, given an interest         12g         11f         11f           113         Exploite the droinscruptes of fuelds-income securities         12g         11f         11f           113         Exploit the color interest rate expectations in determining the shape of the term structure         13g         12c         11f           113         Exploit the color interest rate expectations in determining the shape of the the matructure         13g         12c         12c           114         Exploit the intervation or band for a tisk-overse investor the Term         13d         12c         12c           113         Identify the components into which the return on a band can be decomposed the Term         13d         12c         12c           114         Term Structure <t< td=""><td></td><td></td><td>T2c</td><td>llc</td><td></td></t<>				T2c	llc	
12       Pricing with income securities can be extended over multiple periods       126       116         Models       Define option-adjusted spread (OAS) and apply it to security pricing       127       111         Models       Describe the rationale behind the use of recombining trees in option pricing       128       111         Calculate the value of a constant-maturity Treasury swap, given an interest rate tree and the risk-neutral probabilities       128       111         Evaluate the advantages and disadvantages of reducing the size of the time steps on the pricing of derivatives on fixed-income securities       121       111         Evaluate the advantages and disadvantages of reducing the size of the time structure       128       120       111         Risk Premium, Estimate the convexity effect using Jensen's inequality       13a       12a       12a         13       dentify the components into which the return on a bond can be decomposed, the file form       12d       12d         14       fearify the components into which the return on a bond can be decomposed, the file form       12d       12d         14       Term Structure       Convexity of a security       12d       13d       12d         14       Term Structure       Construct and describe the epife change in maturity, yield, and volatility on the convexity of a security       12d       12d         13       Construct and descr			this difference to interest rate drift	12d	11d	reworded
Term Structure         Define option-adjusted spread (OAS) and apply it is security pricing         124         116           Models         Describe the rationale behind the use of recombining trees in option pricing         12g         11g           Calculate the value of a constant-maturity Treasury swap, given an interest         12h         11h           Evaluate the advantages and disadvantages of reducing the size of the time         12i         11i           Evaluate the appropriateness of the Black-Scholes-Merton model when voluing derivatives on fixed-income securities         12a         12a           Expectations, stape of the term structure         Apply or risk-neutral interest rate tree to assess the effect of volatility on the term structure         13b         12c           Item Formium, Extended the price and return of a zero-coupon bond incorporating a risk premium         12d         12d           Item Formium, Structure         Evaluate the price and return of a zero-coupon bond incorporating a risk premium         12d         12d           Item Form Structure         Construct and describe the effectiveness of a short-term interest rate tree tree assuming normally distributed rates, abot with and without diff         12d         12d           Ite Art of         Construct and describe the effectiveness of a short-term rate tree tree tree assuming normally distributed rates, abot with and without diff         12d         12d           Ite Art of         Construct and describe	12	-		12e	lle	
13         Describe the rationale behind the use of recombining trees in option pricing         12g         11g           11         Calculate the value of a constant-maturity Treasury swap, given an interest rate tree and the risk-neutral probabilities         12h         11h           12         11ii         11ii         11ii           12         11ii         11ii           12         11ii         11ii           12         11ii         11ii           13ii         Exploit the role of interest rate expectations in determining the shape of the term structure         13a         12a           13ii         Convexity, and the Shape of the term structure         13b         12d         12d           14ii         Terminum, Structure         Evaluate the convexity effect using lensen's inequality and calculate the expected return on a bond can be decomposed, the Shape of the term structure         13d         12d           14iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	12		Define option-adjusted spread (OAS) and apply it to security pricing	12f	11f	
14     The Art of     The Art of       14     The Art of     Construct models     The Art of       14     Term Structure     Construct models     The Art of       14     Term Structure     Construct models     The Art of       14     Term Structure     Construct models     The Art of       15     Term Structure     Construct models     The Art of       16     Term Structure     Construct models     The Art of       16     Term Structure     Construct models     The Art of       17     Term Structure     Construct models     The Art of       18     Term Structure     Construct models     The Art of       19     Construct models     The Structure     The Art of       19     Construct models     Term Structure     The Art of       19     Construct models     The Art of     Term Structure       19     Construct models     The Art of     Term Structure       19     Term Structure     Construct models     The Art of       10     Term Structure     Term Structure     The Art of       10     Term Structure     Term Structure     The Art of       114     Term Structure     Term Structure     The Art of       114     Term Structure		Models	Describe the rationale behind the use of recombining trees in option pricing	12g	11g	
11         Evaluate the advantages and disadvantages of reducing the size of the time steps on the pricing of derivatives on fixed-income securities Evaluate the appropriateness of the Black-Scholes-Merton model when valuing derivatives on fixed-income securities         12         111           12         111         111         111           13         Expectations, Risk Premium, the Shope of the term structure         130         120         120           13         Expectations, Risk Premium, the Shope of the Term Structure         Estimate the convexity effect using Jensen's inequality         13         136         120           13         Expectations, the Shope of the Term Structure         Estimate the convexity effect using Jensen's inequality         136         120           14         Evaluate the impact of changes in maturity, yield, and valatility on the convexity of a security Calculate the impact of changes of a short-term interest rate free change using a model with normally distributed rates, both with and without drift.         140         130           14         The Art of Calculate the short-term rate change and standard deviation of the rate in term structure         146         136           14         136         136         136         136           14         136         136         136           14         136         136         136           14         136         136				12h	11h	
Image: 10 control of the control of the Bick-Scholes-Merton model when voluing derivatives on fixed-income securities12i11i13Fealuate the control interest rate expectations in determining the shape of the term structure Apply a risk-neutral interest rate tree to assess the effect of volatility on the term structure13e12a13Expectations, shape of the term structure13e13c12c14Expectations, the Shape of the TermIdentify the components into which the return on a bond for a risk-averse investor and calculate the expected return on a bond for a risk-averse investor and calculate the expected return on a bond for a risk-averse investor convexity, and calculate the price and return of a zero-coopen bond incorporating a risk premium13d12d14Calculate the impact of changes in maturity, yield, and volatility on the convexity of a security Calculate the short-term rate change and standard deviation of the rate change using a model with normally distributed rates, both with and without drift Describe methods for addressing the possibility of negative short-term rate the short-term rate trane under the Ho-Lee Model with time- dependent drift.14d13d14The Art of Term structure expectation in term structure models14f13d15Describe were of the short-term rate trane under the Ho-Lee Model with time- dependent drift.14d13d16Describe were of fitting models to market prices of fitting models to market prices14f13d16Describe were of the short-term rate trane and advision of the rate change, expected rate in T years, and holf-life Describe were short-term r			Evaluate the advantages and disadvantages of reducing the size of the time	12i	11i	
Image: 13 and 14 and 13 and 14 and 13 and 14 and			Evaluate the appropriateness of the Black-Scholes-Merton model when	12j	11j	
Expectations, Risk Prenium, Risk Prenium, Risk Prenium, Risk Prenium, Structurestatuate the convexity effect using Jensen's inequality13c12c13dentify the components into which the return on a bond can be decomposed, and calculate the expected return on a bond for a risk-averse investor13d12d13Evaluate the impact of changes in maturity, yield, and volatility on the convexity of a security Calculate the price and return of a zero-coupon bond incorporating a risk premium12d12d14Evaluate the impact of changes in maturity, yield, and volatility on the convexity of a security Calculate the short-term rate change and standard deviation of the calculate the short-term rate change and standard deviation of the calculate the short-term rate change and standard deviation of the calculate the short-term rate the not change standard deviation of the calculate the short-term rate tree under the Ho-Lee Model with time- dependent drift Describe methods for addressing the possibility of negative short-term rate bescribe the process of constructing a simple and recombining tree for a short-term rate under the Vasicek Model with time- dependent drift Describe the process of constructing a simple and recombining tree for a short-term rate under the Vasicek Model14d13d14Term Structure densities the short-term rate tree and extender deviation of the rate change, expected rate in Tyears, and holf-life volatility.14d13d14Term Structure dependent driftDescribe the short-term rate change and determine the behavior of the standard deviation of the rate change, expected rate in Tyears, and holf-life Describe the short-term rate change and determine the behavior of the <br< td=""><td></td><td></td><td>Explain the role of interest rate expectations in determining the shape of the</td><td>13a</td><td>12a</td><td></td></br<>			Explain the role of interest rate expectations in determining the shape of the	13a	12a	
13       Risk Premium, convexity, and the Shope of the Term Structure       Estimate the convexity effect using Jensen's inequality       13c       12c         13       dentify the components into which the return on a bond can be decomposed, and calculate the expected return on a bond for a risk-averse investor       13d       12d         13       calculate the impact of changes in maturity, yield, and volatility on the convexity of a security       12d       12d         14       Calculate the price and return of a zero-coupon bond incorporating a risk premium       14a       13a         14       The Art of Term Structure       Construct and describe the effectiveness of a short-term rate change using a model with normally distributed rates and no drift       14b       13d         14       The Art of Term Structure       Construct a short-term rate tree under the Ho-Lee Model with time- dependent drift       14d       13d         14       Term Structure       Describe methods for addressing the possibility of negative short-term rate in term structure models       14e       13d         14       Term Structure       Describe methods for addressing the possibility of negative short-term rate in term structure models       14e       13d         14       Term Structure       Construct a short-term rate tree under the Ho-Lee Model with time- dependent drift       14d       13d         14       Describe the effectivenenss of the Vasicek Model and necentron		Expectations,		13b	12b	
13       the Shape of the Term Structure       Identify the components into which the return on a bond can be decomposed, and calculate the expected return on a bond for a risk-averse investor       13d         Structure       Evaluate the impact of changes in maturity, yield, and volatility on the convexity of a security       12d         Calculate the price and return of a zero-coupon bond incorporating a risk prenium       14a       13a         Calculate the price and return of a zero-coupon bond incorporating a risk prenium       14a       13a         Calculate the price and return of a zero-coupon bond incorporating a risk prenium       14a       13a         Calculate the short-term rate change and short-term interest rate tree assuming normally distributed rates, both with and without drift       14b       13b         Calculate the short-term rate change and short-term rate and or deviction of the rate change using a model with normally distributed rates and no drift       14b       13d         Term Structure       dependent drift       0       14d       13d         Models-Drift       Describe uses and benefits of the arbitrage-free models and assess the issue of fitting models to market prices       14e       13g         Describe the process of constructing a simple and recombining tree for a short-term rate under the Vasicek Model with mean reversion Calculate the vasicek Model rate change, standard deviation of the rate change, expected rate in Tyears, and half-life       14g       13g         Describe th			•	13c	12c	
12d       12d         convexity of a security       12e         Calculate the price and return of a zero-coupon bond incorporating a risk premium       12e         Construct and describe the effectiveness of a short-term interest rate tree assuming normally distributed rates, both with and without drift       14a       13a         Calculate the short-term rate change and standard deviation of the rate change using a model with normally distributed rates and no drift       14b       13b         Describe methods for addressing the possibility of negative short-term rates and no drift       14d       13d         The Art of Term Structure models       14e       13d         Models-Drift       Describe uses and benefits of the arbitrage-free models and assess the issue of fitting models to market prices       14e       13d         Describe the process of constructing a simple and recombining tree for a short-term rate under the Vasicek Model with mean reversion       14g       13g         Calculate the short-term rate process under a model with time-dependent volatility       15a       14a         The Art of Term Structure       Structure models       14g       13g         Describe the process of constructing a simple and recombining tree for a short-term rate under the Vasicek Model       14h       13h         Describe the short-term rate process under a model with time-dependent volatility       15a       14a         Describe the sh	13	the Shape of the Term	Identity the components into which the return on a bond can be decomposed,	13d		
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Calculate the short-term rate change and describe the basis point volatility using the CIR and lognormal models		Volatility and	Describe the short-term rate process under the Cox-Ingersoll-Ross (CIR) and			
			Calculate the short-term rate change and describe the basis point volatility	15e	14e	
				15f	14f	

Readin	Reading		2025	2024	
g No.	Name	Learning Outcome	LOS	LOS	Changes
		Describe the structure of the Gauss+ model and discuss the implications of this structure for the model's ability to replicate empirically observed interest rate dynamics	16a		
16	The Vasicek and Gauss	Compare and contrast the dynamics, features, and applications of the Vasicek model and the Gauss+ model	16b		
	Models	Calculate changes in the short-term, medium-term, and long-term interest rate factors under the Gauss+ model	16c		
		Explain how the parameters of the Gauss+ model can be estimated from empirical data	16d		
		Describe a volatility smile and volatility skew	17a	15a	
		Explain the implications of put-call parity on the implied volatility of call and put options	17b	15b	
		Compare the shape of the volatility smile (or skew) to the shape of the implied distribution of the underlying asset price and to the pricing of options on the underlying asset	17c	1 <i>5</i> c	
17	Volatility	Describe characteristics of foreign exchange rate distributions and their implications on option prices and implied volatility	17d	15d	
17	Smiles	Describe the volatility smile for equity options and foreign currency options and provide possible explanations for its shape	17e	15e	
		Describe alternative ways of characterizing the volatility smile	17f	15f	
		Describe volatility term structures and volatility surfaces and how they may be used to price options	17g	15g	
		Explain the impact of the volatility smile on the calculation of an option's Greek letter risk measures	17h	1 <i>5</i> h	
		Explain the impact of a single asset price jump on a volatility smile	17i	1 <i>5</i> i	
		Describe the changes to the Basel framework for calculating market risk capital under the Fundamental Review of the Trading Book (FRTB) and the motivations for these changes	18a	16a	
18	Fundamental Review of the	Compare the various liquidity horizons proposed by the FRTB for different asset classes and explain how a bank can calculate its expected shortfall using the various horizons	18b	16b	
	Trading Book	Explain the FRTB revisions to Basel regulations in the following areas: - Classification of positions in the trading book compared to the banking book - Backtesting, profit and loss attribution, credit risk, and securitizations	18c	16c	
		Explain the following lessons on VaR implementation: time horizon over which			
		VaR is estimated, the recognition of time-varying volatility in VaR risk factors, and VaR backtesting		6a	
	Basel Committee on	Describe exogenous and endogenous liquidity risk and explain how they might be integrated into VaR models		6b	
6	Banking	Compare VaR, expected shortfall, and other relevant risk measures		6с	
	Supervision	Compare unified and compartmentalized risk measurement		6d	
		Compare the results of research on top-down and bottom-up risk aggregation methods		6e	
		Describe the relationship between leverage, market value of asset, and VaR within an active balance sheet management framework		6f	
		Credit Risk			
		Define credit risk and explain how it arises using examples	19a	17a	
		Explain the differences between insolvency, default, and bankruptcy	19b	17b	reworded
10	Fundamentals	Identify and describe transactions that generate credit risk	19c	17c	
19	of Credit Risk	Describe the entities that are exposed to credit risk and explain circumstances under which exposure occurs	19d	17d	
		Discuss the motivations for managing or taking on credit risk	19e	17e	

Readin	Reading		2025	2024	
g No.	Name	Learning Outcome	LOS	LOS	Changes
		Define risk management responsibilities in an organization and explain the three lines of defense framework for effective risk management and control	20a	18a	
20	Governance	Explain the processes that lead to risk taking including credit origination, credit risk assessment, and credit approval processes	20b	18b	
		Discuss the following key principles underlying best practice for the governance system of credit risk: Guidelines, Skills, Limits, and Oversight	20c	18c	
		Describe the most common parameters of a credit-sensitive transaction	20d	18d	
		Describe the roles of the credit committee in an organization	20u 20e	18e	
		Describe key elements of an effective lending or financing policy	200 21a	19a	
		Explain the importance and challenges of setting exposure and concentration limits	21b	19b	
		Describe the scope and allocation processes of a bank's credit facility and explain bank-specific policies and actions to reduce credit risk	21c	19c	
		Discuss factors that should be considered during the credit asset classification process	21d	19d	
	Credit Risk	Describe and explain loan loss provisions and loan loss reserves	21e	19e	
21	Management	Identify and explain the components of expected loss and differentiate between expected loss and unexpected loss	21f	19f	reworded
		Explain the requirements for estimating expected loss under IFRS 9	21g	19g	
		Describe a workout procedure for loss assets and compare the following two approaches used to manage loss assets: retaining loss assets and writing off loss assets	21h	19h	
		Explain the components of credit risk analysis	21i	19i	
		Explain the components of credit risk management capacity, and identify key questions that the board of directors of a bank should ask	21j	19j	reworded
		Evaluate a bank's economic capital relative to its level of credit risk	22a	20a	
		Identify and describe important factors used to calculate economic capital			
		for credit risk: probability of default, exposure, and loss rate	22b	20b	
		Define and calculate expected loss (EL)	22c	20c	
		Define and calculate unexpected loss (UL)	22d	20d	
	Capital	Estimate the variance of default probability assuming a binomial distribution	22e	20e	
22	Structure in Banks	Calculate UL for a credit asset portfolio and the UL contribution of each asset under various scenarios of portfolio composition, asset characteristics and size	22f	20f	
		Describe how economic capital is derived	22g	20g	
		Explain how the credit loss distribution is modeled	22h	20h	
		Describe challenges to quantifying credit risk	22i	20i	
		Explain the capital adequacy, asset quality, management, earnings, and liquidity (CAMEL) system used for evaluating the financial condition of a	23a	21a	
		bank Describe quantitative measurements and factors of credit risk, including probability of default, loss given default, exposure at default, expected loss, and time horizon	23b	21b	
	Introduction to	Estimate risk-weighted assets and capital adequacy ratio of a financial institution	23c		
23	Credit Risk Modeling and	Describe the judgmental approaches, empirical models, and financial models to predict default	23d	21d	
	Assessment	Apply the Merton model to calculate default probability and the distance to default and describe the limitations of using the Merton model	23e	21e	
		Compare and contrast different approaches to credit risk modeling, such as those related to the Merton model, Credit Risk Plus (CreditRisk+), CreditMetrics, and the Moody's-KMV model	23f	21f	
		Apply risk-adjusted return on capital (RAROC) to measure the performance of a loan	23g	21g	

Readin	Reading		2025	2024	
g No.	Name	Learning Outcome	LOS	LOS	Changes
		Compare the credit scoring system to the credit rating system in assessing			
		credit quality and describe the different types of each system	24a	22a	
24	Credit Scoring	Differentiate between through-the-cycle credit rating system and point-in- time credit rating system	24b	22b	reworded
24	and Rating	Describe the process for developing credit risk scoring and rating models	24c	22c	
		Describe rating agencies' assignment methodologies for issue and issuer			
		ratings, and identify the main criticisms of the credit rating agencies' ratings	24d	22d	
		Analyze the credit risks and other risks generated by retail banking	25a	23a	
		Explain the differences between retail credit risk and corporate credit risk	25b	23b	
		Discuss the "dark side" of retail credit risk and the measures that attempt to address the problem	25c	23c	
	Credit Scoring	Define and describe credit risk scoring model types, key variables, and	25d	23d	
25	and Retail Credit Risk	Discuss the key variables in a mortgage credit assessment and describe the use of cutoff scores, default rates, and loss rates in a credit scoring model	25e	23e	
	Management	Discuss the measurement and monitoring of a scorecard performance			
		including the use of cumulative accuracy profile (CAP) and the accuracy ratio (AR) techniques	25f	23f	
		Describe the customer relationship cycle and discuss the trade-off between creditworthiness and profitability	25g	23g	
		Discuss the benefits of risk-based pricing of financial services	25h	23h	
		Identify and explain the different sources of country risk	26a	24a	
		Evaluate the methods for measuring country risk and discuss the limitations of using those methods	26b	24b	
	Country Risk- C Determinants, E Measures, and E	Compare and contrast foreign currency defaults and local currency defaults	26c	24c	
26		Explain the consequences of a country's default	26d	24d	
-		Discuss measures of sovereign default risk and describe components of a sovereign rating	26e	24e	
		Describe the shortcomings of the sovereign rating systems of rating agencies	26f	24f	
		Compare the use of credit ratings, market-based credit default spreads, and CDS spreads in predicting default	26g	24g	
		Compare agencies' ratings to internal credit rating systems	27a	25a	
		Describe linear discriminant analysis (LDA), define the Altman's Z-score and	27b	25b	
		its usage, and apply LDA to classify a sample of firms by credit quality	27.5	200	
		Describe the relationship between borrower rating and probability of default	27c	25c	
		Describe a rating migration matrix and calculate the probability of default, cumulative probability of default, and marginal probability of default	27d	25d	
		Define the hazard rate and use it to define probability functions for default time as well as to calculate conditional and unconditional default probabilities	27e	25e	
	Estimating	Describe recovery rates and their dependencies on default rates	27f	25f	
27	Default	Define a credit default swap (CDS) and explain its mechanics including the	271	201	
	Probabilities	obligations of both the default protection buyer and the default protection seller	27g	25g	
		Describe CDS spreads and explain how CDS spreads can be used to estimate hazard rates	27h	25h	
		Define and explain CDS-bond basis	27i	25i	
		Compare default probabilities calculated from historical data with those calculated from credit yield spreads	27j	25j	
		Describe the difference between real-world and risk-neutral default probabilities and determine which one to use in the analysis of credit risk	27k	25k	
		Calculate the value of a firm's debt and equity, the volatility of firm value,	<u></u>	0.5	
		and the volatility of firm equity using the Merton model	271	251	reworded

Readin	Reading	Learning Outcome	2025	2024	Changes
g No.	Name		LOS	LOS	
	Estimating	Calculate distance to default and default probability using the Merton	27m	25m	reworded
27	Default Probabilities	Assess the quality of the default probabilities produced by the Merton model, the Moody's KMV model, and the Kamakura model	27n	25n	
		Compare market risk value at risk (VaR) with credit VaR in terms of definition, time horizon, and tools for measuring them	28a	26a	
		Define and calculate Credit VaR	28b	26b	
		Describe the use of rating transition matrices for calculating credit VaR	28c	26c	
28	Credit Value at Risk	Describe the application of the Vasicek's model to estimate capital requirements under the Basel II internal-ratings-based (IRB) approach	28d	26d	reworded
		Explain the Vasicek's model, Credit Risk Plus (CreditRisk+) model, and the CreditMetrics ways of estimating the probability distribution of losses arising from defaults as well as modeling the default correlation	28e	26e	reworded
		Define credit spread risk and assess its impact on calculating credit VaR	28f	26f	
		Define and calculate default correlation for credit portfolios	29a	27a	
		Identify drawbacks in using the correlation-based credit portfolio framework	29b	27b	
		Assess the impact of correlation on a credit portfolio and its Credit VaR	29c	27c	
		Describe the use of a single factor model to measure portfolio credit risk, including the impact of correlation	29d	27d	
29	Portfolio Credit Risk	Define beta and calculate the asset return correlation of any pair of firms using the single factor model	29e	27e	
		Estimate the probability of a joint default of any pair of credits and the default correlation between any pair of credits using the single factor model	29f	27f	reworded
		Describe how Credit VaR can be calculated using a simulation of joint defaults	29g	27g	
		Assess the effect of granularity on Credit VaR	29h	27h	
		Assess the credit risks of derivatives	30a	29a	
		Define credit valuation adjustment (CVA) and debt valuation adjustment (DVA)	30ь	29b	
		Calculate the probability of default using credit spreads	30c	29c	
	Credit Risk	Describe, compare, and contrast various credit risk mitigants and their role in credit analysis	30d	29d	
30		Describe the significance of estimating default correlation for credit portfolios and distinguish between reduced form and structural default correlation models	30e	29e	
		Describe the Gaussian copula model for time to default and calculate the probability of default using the one-factor Gaussian copula model	30f	29f	
		Describe how to estimate credit VaR using the Gaussian copula and the CreditMetrics approach	30g	29g	
		Describe a credit derivative, credit default swap (CDS), total return swap, and collateralized debt obligation (CDO)	31a	30a	
		Explain how to account for credit risk exposure in valuing a CDS	31b	30b	
		Identify the default probabilities used to value a CDS	31c	30c	
31	Credit	Evaluate the use of credit indices and fixed coupons in pricing CDS transactions	31d	30d	
	Derivatives	Define CDS forwards and CDS options	31e	30e	
		Describe the process of valuing a synthetic CDO using the spread payments approach and the Gaussian copula model of time to default approach	31f	30f	
		Define the two measures of implied correlation: compound (tranche) correlation and base correlation	31g	30g	
		Discuss alternative approaches used to estimate default correlation	31h	30h	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
g no.	Tunne	Define derivatives and explain how derivative transactions create			
		counterparty credit risk	32a	31a	
		Compare and contrast exchange-traded derivatives and over-the-counter (OTC) derivatives, and discuss the features of their markets	32b	31b	
		Describe the process of clearing a derivative transaction	32c	31c	
		Identify the participants and describe the use of collateralization in the derivatives market	32d	31d	
		Define the International Swaps and Derivatives Association (ISDA) Master Agreement, the risk-mitigating features it provides, and the default events it covers	32e	31e	
32	Derivatives	Describe the features and use of credit derivatives and discuss potential risks they may create	32 <del>f</del>	31f	
		Describe central clearing of OTC derivatives and discuss the roles, mandate, advantages, and disadvantages of the central counterparty (CCP)	32g	31g	
		Explain the margin requirements for both centrally-cleared and non- centrally-cleared derivatives	32h	31h	
		Define special purpose vehicles (SPVs), derivatives product companies (DPCs), monolines, and credit derivatives product companies (CDPCs) and describe the limitations of using them as risk mitigating methods	32i	31i	
		Describe the approaches used and the challenges faced in modeling derivatives risk	32j	31j	
	Counterparty Risk and Beyond	Describe counterparty risk and differentiate it from lending risk	33a	32a	
		Describe transactions that carry counterparty risk and explain how counterparty risk can arise in each transaction	33b	32b	
		Identify and describe institutions that take on significant counterparty risk	33c	32c	
33		Describe credit exposure, credit migration, recovery, mark-to-market, replacement cost, default probability, loss given default, and the recovery rate	33d	32d	
		Describe credit value adjustment (CVA) and compare the use of CVA and credit limits in evaluating and mitigating counterparty risk	33e	32e	
		Identify and describe the different ways institutions can quantify, manage, and mitigate counterparty risk	33f	32f	
		Identify and explain the costs of an OTC derivative	33g	32g	
		Explain the components of the X-Value Adjustment (xVA) term	33h	32h	
		Explain the purpose of an International Swaps and Derivatives Association (ISDA) master agreement	34a	33a	
		Summarize netting and close-out procedures (including multilateral netting), explain their advantages and disadvantages, and describe how they fit into the framework of the ISDA master agreement	34b	33b	
34	Netting, Close- out and	Describe the effectiveness of netting in reducing credit exposure under various scenarios	34c	33c	
34	Related Aspects	Describe the mechanics of termination provisions and trade compressions and explain their advantages and disadvantages	34d	33d	
		Provide examples of trade compression of derivative positions, calculate net notional exposure amount, and identify the party holding the net contract position in a trade compression	34e	33e	
		Identify and describe termination events and discuss their potential effects on parties to a transaction	34f	33f	
		Describe the rationale for collateral management	35a	34a	
35	Margin Collateral and Settlement	Describe the terms of a collateral agreement and features of a credit support annex (CSA) within the ISDA Master Agreement including threshold, initial margin, minimum transfer amount and rounding, haircuts, credit quality, and credit support amount	35b	34b	
	een en en	Calculate the credit support amount (margin) under various scenarios	35c	34c	
		Describe the role of a valuation agent	35d	34d	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
g No.	Tunic	Describe the mechanics of collateral and the types of collateral that are			
		typically used	35e	34e	
		Explain the process for the reconciliation of collateral disputes	35f	34f	
		Explain the features of a collateralization agreement	35g	34g	
35	Margin Collateral and	Differentiate between a two-way and one-way CSA agreement and describe how collateral parameters can be linked to credit quality	3 <i>5</i> h	34h	
	Settlement	Explain aspects of collateral including funding, rehypothecation, and segregation	35i	34i	
		Explain how market risk, operational risk, and liquidity risk (including funding liquidity risk) can arise through collateralization	35j	34j	
		Describe the various regulatory capital requirements	35k	34k	
		Define a central counterparty (CCP) and describe the mechanics of central clearing	36a	35a	
		Explain the concept of novation under central clearing	36b	35b	
		Define netting, multilateral offset, and compression and provide examples of each	36c	35c	
		Describe the application and estimation of margin and default funds under central clearing	36d	35d	
36	Central	Discuss the risks faced by a CCP and the ways it manages its exposures	36e	35e	
	Clearing	Provide examples of a loss waterfall	36f	35f	
		Explain the different methods of absorbing losses and managing the default of one or more members of a CCP	36g	35g	reworded
		Compare bilateral and central clearing	36h	35h	
		Compare initial margin and default fund requirements for clearing members in relation to loss coverage, cost of clearing, and moral hazard	36i	3 <i>5</i> i	
		Describe the advantages and disadvantages of central clearing	36j	35j	
		Describe and calculate the following metrics for credit exposure: expected mark-to-market, expected exposure, potential future exposure, expected positive exposure and negative exposure, effective expected positive	37a	36a	
		exposure, and maximum exposure Compare the characterization of credit exposure to VaR methods and describe additional considerations used in the determination of credit exposure	37b	36b	
		Identify factors that affect the calculation of the credit exposure profile and summarize the impact of collateral on exposure	37c	36c	
07	Future Value	Identify typical credit exposure profiles for various derivative contracts and combination profiles	37d	36d	
37	and Exposure	Explain how payment frequencies and exercise dates affect the exposure profile of various securities	37e	36e	
		Explain the general impact of aggregation on exposure, and the impact of aggregation on exposure when there is correlation between transaction values	37f	36f	
		Describe the differences between funding exposure and credit exposure	37g	36g	
		Explain the impact of collateralization on exposure and assess the risk associated with the remargining period, threshold, and minimum transfer amount	37h	36h	
		Assess the impact of collateral on counterparty risk and funding, with and without segregation or rehypothecation	37i	36i	
		Explain the motivation for and the challenges of pricing counterparty risk	38a	37a	
		Describe credit value adjustment (CVA)	38b	37b	
38	CVA	Calculate CVA and CVA as a spread with no wrong-way risk, netting, or collateralization	38c	37c	
		Evaluate the impact of changes in the credit spread and recovery rate assumptions on CVA	38d	37d	
		Describe debt value adjustment (DVA) and bilateral CVA (BCVA)	38e	37e	

Readin	Reading	Learning Outcome	2025	2024	Changes
g No.	Name		LOS	LOS	
		Explain the differences between unilateral CVA (UCVA) and BCVA, and between unilateral DVA (UDVA) and BCVA	38f	37f	reworded
		Calculate DVA, BCVA, and BCVA as a spread	38g	37g	
		Explain how netting can be incorporated into the CVA calculation	38h	37h	
		Define and calculate incremental CVA and marginal CVA and explain how			
		to convert CVA into a running spread	38i	37i	
38	CVA	Explain the impact of incorporating collateralization into the CVA calculation, including the impact of margin period of risk, thresholds, and initial margins	38j	37j	
00	CIA	Describe wrong-way risk and contrast it with right-way risk	38k	37k	
		Identify examples of wrong-way risk and examples of right-way risk	381	371	
		Discuss the impact of collateral on wrong-way risk	38m	37m	
		Identify examples of wrong-way collateral	38n	37n	
		Discuss the impact of wrong-way risk on central counterparties (CCPs)	380	370	
		Describe the various wrong-way modeling methods including hazard rate			
		approaches, structural approaches, parametric approaches, and jump approaches	38p	37p	
		Explain the implications of central clearing on wrong-way risk	38q	37q	
		Differentiate among current exposure, peak exposure, expected exposure, and expected positive exposure	39a	38a	
	The Evolution of Stress Testing Counterparty Exposures	Explain the treatment of counterparty credit risk (CCR) both as a credit risk and as a market risk and describe its implications for trading activities and risk management for a financial institution	39b	38b	
		Describe a stress test that can be performed on a loan portfolio, and on a derivative portfolio	39c	38c	
39		Differentiate between stressed expected loss and stress loss of a credit portfolio, and calculate the stress loss on a loan portfolio and the stress loss on a derivative portfolio	39d	38d	
		Describe a stress test that can be performed on CVA	39e	38e	
		Calculate the stressed CVA and the stress loss on CVA	39f	38f	
		Calculate the DVA and explain how stressing DVA enters into aggregating stress tests of CCR	39g	38g	
		Describe the common pitfalls in stress testing CCR	39h	38h	
		Describe common types of structured products	40a	28a	
		Describe tranching and the distribution of credit losses in a securitization	40b	28b	
		Describe a waterfall structure in a securitization	40c	28c	
		Identify the key participants in the securitization process and describe conflicts of interest that can arise in the process	40d	28d	
		Calculate and evaluate one or two iterations of interim cashflows in a three- tiered securitization structure	40e	28e	reworded
		Describe the treatment of excess spread in a securitization structure and estimate the value of the overcollateralization account at the end of each	40f	28f	
40	Structured Credit Risk	year Explain the tests on the excess spread that a custodian must go through at the end of each year to determine the cash flow to the overcollateralization account and to the equity noteholders	40g	28g	
		Describe a simulation approach to calculating credit losses for different tranches in a securitization	40h	28h	
		Explain how the default probabilities and default correlations affect the credit risk in a securitization	40i	28i	
		Explain how default sensitivities for tranches are measured	40j	28j	
		Describe risk factors that impact structured products	40j 40k	28k	
		Define implied correlation and describe how it can be measured	40k 40l	281	
		Identify the motivations for using structured credit products	401 40m	28m	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
5.000		Define securitization, describe the securitization process, and explain the	41a	39a	
		role of participants in the process Explain the terms over-collateralization, first-loss piece, equity piece, and cash waterfall within the securitization process	41b	39b	
		Analyze the differences in the mechanics of issuing securitized products using a trust versus a special purpose vehicle (SPV) and distinguish between the three main SPV structures: amortizing, revolving, and master trust	41c	39c	
	An Introduction	Explain the reasons for and the benefits of undertaking securitization	41d	39d	
41	to	Describe and assess the various types of credit enhancements	41e	39e	
	Securitisation	Explain the various performance analysis tools for securitized structures and identify the asset classes they are most applicable to	41f	39f	
		Define and calculate the delinquency ratio, default ratio, monthly payment rate (MPR), debt service coverage ratio (DSCR), the weighted average coupon (WAC), the weighted average maturity (WAM), and the weighted average life (WAL) for relevant securitized structures	41g	39g	
		Explain the prepayment forecasting methodologies and calculate the constant prepayment rate (CPR) and the Public Securities Association (PSA) rate	41h	39h	
		Operational Risk			
		Describe an operational risk management framework and assess the types of risks that can fall within the scope of such a framework	42a	40a	
	Introduction to Operational Risk and Resilience	Describe the seven Basel II event risk categories and identify examples of operational risk events in each category	42b	40b	
42		Explain characteristics of operational risk exposures and operational loss events, and challenges that can arise in managing operational risk due to these characteristics	42c	40c	
		Describe operational resilience, identify the elements of an operational resilience framework, and summarize regulatory expectations for operational resilience	42d	40d	
		Explain the Basel regulatory expectations for the governance of an operational risk management framework	43a	41a	
	Diale	Describe and compare the roles of different committees and the board of directors in operational risk governance	43b	41b	
43	Risk Governance	Describe the "three lines of defense" model for operational risk governance and compare roles and responsibilities for each line of defense	43c	41c	
		Explain best practices and regulatory expectations for the development of a risk appetite for operational risk and for a strong risk culture	43d	41d	
		Discuss different top-down and bottom-up approaches and tools for identifying operational risks	44a	42a	reworded
	Risk	Describe best practices in extreme risk identification for operational risk	44b	42b	reworded
44	Identification	Describe and apply an operational risk taxonomy and give examples of different taxonomies of operational risks	44c	42c	
		Describe and apply the Level 1, 2, and 3 categories in the Basel operational risk taxonomy	44d	42d	
		Explain best practices for the collection of operational loss data and reporting of operational loss incidents, including regulatory expectations	45a	43a	
	Risk Measurement	Explain operational risk-assessment processes and tools, including risk control self-assessments (RCSAs), likelihood assessment scales, and heatmaps	45b	43b	
45	and Assessment	Describe the differences among key risk indicators (KRIs), key performance indicators (KPIs), and key control indicators (KCIs)	45c	43c	
		Describe the use of factor-based models that quantitatively assess operational risk, and explain the application of the Swiss cheese model and the bowtie tool	45d	43d	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
g No.	Name	Fature and the set of the second s	103	103	
	Risk	Estimate operational risk exposures based on the fault tree model given probability assumptions	45e	43e	
45	Measurement and	Describe approaches used to determine the level of operational risk capital for economic capital purposes, including their application and limitations	45f	43f	
	Assessment	Describe and explain the steps to ensure a strong level of operational resilience, and to test the operational resilience of important business services	45g	43g	
		Explain and compare different ways firms address their operational risk exposures	46a	44a	
		Compare different types of internal controls and provide examples of each type of internal control	46b	44b	
		Describe control automation, internal control design, and control testing, including risks and challenges that arise in these processes and ways to make them more effective	46c	44c	
46	Risk Mitigation	Describe methods to improve the quality of an operational process and reduce the potential for human error	46d	44d	
		Explain how operational risk can arise with new products, new business initiatives, or mergers and acquisitions, and describe ways to mitigate these risks	46e	44e	
		Identify and describe approaches firms should use to mitigate the impact of operational risk events	46f	44f	
		Describe methods for the transfer of operational risks and the management of reputational risk, and assess their effectiveness in different situations	46g	44g	
	Risk Reporting	Identify roles and responsibilities of different organizational committees, and explain how risk reports should be developed for each committee or business function	47a	45a	
47		Describe components of operational risk reports and explain best practices in operational risk reporting	47b	45b	
		Describe challenges to reporting operational risks, including characteristics of operational loss data, and explain ways to overcome these challenges	47c	45c	
		Explain best practices for reporting risk exposures to regulators and external stakeholders	47d	45d	
		Describe the role of risk governance, risk appetite, and risk culture in the context of an enterprise risk management (ERM) framework	48a	46a	
48	Integrated Risk	Explain and differentiate between regulatory capital and economic capital requirements as prescribed in Basel regulations	48b		
10	Management	Describe the elements of a sound stress-testing framework for financial institutions and explain best practices for stress testing	48c	46c	reworded
		Explain challenges and considerations when developing and implementing models used in stress testing operational risk	48d	46d	
		Define cyber-resilience and compare recent regulatory initiatives in the area of cyber-resilience	49a	47a	
	Cyber-	Describe current practices by banks and supervisors in the governance of a cyber-risk management framework, including roles and responsibilities	49b	47b	
49	resilience- Range of	Explain methods for supervising cyber-resilience, testing and incident response approaches, and cybersecurity and resilience metrics	49c	47c	
	practices	Explain and assess current practices for the sharing of cybersecurity information between different types of institutions	49d	47d	
		Describe practices for the governance of risks of interconnected third-party service providers	49e	47e	
50	Case Study- Cyberthreats and	Provide examples of cyber threats and information security risks, and describe frameworks and best practices for managing cyber risks	50a	48a	
	Information Security Risks	Describe lessons learned from the Equifax case study	50b	48b	

Readin	Reading	Learning Outcome	2025	2024	Changes
g No.	Name		LOS	LOS	500
	Sound Management of Risks	Explain best practices recommended by the Basel committee for the assessment, management, mitigation, and monitoring of money laundering and financing of terrorism (ML/FT) risks	51a	49a	
51	related to Money	Describe recommended practices for the acceptance, verification, and identification of customers at a bank	51b	49b	
	Laundering and Financing	Explain practices for managing ML/FT risks in a group-wide and cross- border context	51c	49c	
50	Case Study-	Describe elements of a control framework to manage financial fraud risk and money laundering risk	52a	50a	
52	Financial Crime and Fraud	Summarize the regulatory findings and describe the lessons learned from the USAA case study	52b	50b	
	Guidance on Managing	Explain how risks can arise through outsourcing activities to third-party service providers and describe elements of an effective program to manage outsourcing risk	53a	51a	
53	Outsourcing Risk	Explain how financial institutions should perform due diligence on third-party service providers	53b	51b	
		Describe topics and provisions that should be addressed in a contract with a third-party service provider	53c	51c	
54	Case Study- Third-Party Risk	Explain how risks related to the use of third parties can arise and describe characteristics of an effective third-party risk management framework	54a	52a	
	Management	Describe the lessons learned from the presented case studies	54b	52b	
55	Case Study- Investor	Summarize important regulations designed to protect investors in financial instruments, including MiFiD, MiFiD II, and Dodd-Frank	55a	53a	
55	Protection and Compliance	Describe lessons learned from the case studies involving violations of investor protection or compliance regulations	55b	53b	reworded
	Supervisory	Describe model risk and explain how it can arise in the implementation of a model	56a	54a	
56	Guidance on	Describe elements of an effective model risk management process	56b	54b	
	Model Risk	Explain best practices for the development and implementation of models	56c	54c	
	Management	Describe elements of a strong model validation process and challenges to an effective validation process	56d	54d	
	Case Study- Model Risk and	Define a model and describe different ways that financial institutions can become exposed to model risk	57a	55a	
57	Model Validation	Describe the role of the model risk management function and explain best practices in the model risk management and validation processes	57b	55b	
		Describe lessons learned from the three case studies involving model risk Describe the evolution of the stress testing process and compare the methodologies of historical European Banking Association (EBA),	57c 58a	55c 56a	
58	Stress Testing Banks	Comprehensive Capital Analysis and Review (CCAR), and Supervisory Capital Assessment Program (SCAP) stress tests Explain challenges in designing stress test scenarios, including the problem of	58b	56b	
		coherence in modeling risk factors Explain challenges in modeling a bank's revenues, losses, and its balance	58c	56c	
		sheet over a stress test horizon period Define, compare, and contrast risk capital, economic capital, and regulatory	550	500	
	Risk Capital	capital and explain methods and motivations for using economic capital approaches to allocate risk capital	59a	57a	
59	Attribution and Risk-Adjusted	Describe the RAROC (risk-adjusted return on capital) methodology and its use in capital budgeting	59b	57b	
	Performance Measurement	Calculate and interpret the RAROC for a project, loan, or loan portfolio and use RAROC to compare business unit performance	59c	57c	reworded
		Explain challenges that arise when using RAROC for performance measurement, including choosing a time horizon, measuring default probability, and choosing a confidence level	59d	57d	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
		Calculate the hurdle rate and apply this rate in making business decisions using RAROC	59e	57e	
	Risk Capital	Calculate the adjusted RAROC for a project to determine its viability	59f	57f	reworded
59	Attribution and Risk-Adjusted Performance Measurement	Explain challenges in modeling diversification benefits, including aggregating a firm's risk capital and allocating economic capital to different business lines	59g	57g	
		Explain best practices in implementing an approach that uses RAROC to allocate economic capital	59h	57h	
	Range of	<ul> <li>Within the economic capital implementation framework, describe the challenges that appear in:</li> <li>Defining and calculating risk measures</li> <li>Risk aggregation</li> <li>Validation of models</li> <li>Dependency modeling in credit risk</li> <li>Evaluating counterparty credit risk</li> <li>Assessing interest rate risk in the banking book</li> </ul>	60a	58α	
60	practices and issues in economic capital	Describe the recommendations by the Bank for International Settlements (BIS) that supervisors should consider to make effective use of internal risk measures, such as economic capital, that are not designed for regulatory purposes	60b	58b	
	frameworks	<ul> <li>Explain benefits and impacts of using an economic capital framework within the following areas:</li> <li>Credit portfolio management</li> <li>Risk-based pricing</li> <li>Customer profitability analysis</li> <li>Management incentives</li> </ul>	60c	58c	
		Describe best practices and assess key concerns for the governance of an economic capital framework	60d	58d	
	Capital	Describe the Federal Reserve's Capital Plan Rule and explain the seven principles of an effective capital adequacy process for bank holding companies (BHCs) subject to the Capital Plan Rule	61a	59a	
61	Capital Planning at Large Bank Holding Companie- Supervisory Expectations and Range of Current Practice	Describe practices that can result in a strong and effective capital adequacy process for a BHC in the following areas: - Risk identification - Internal controls, including model review and validation - Corporate governance - Capital policy, including setting of goals and targets and contingency planning - Stress testing and stress scenario design - Estimating losses, revenues, and expenses, including quantitative and qualitative methodologies - Assessing the impact of capital adequacy, including risk-weighted asset (RWA) and balance sheet projections	61b	59b	
		Explain the motivations for introducing the Basel regulations, including key risk exposures addressed, and explain the reasons for revisions to Basel regulations over time	62a	60a	
	Capital	Explain the calculation of risk-weighted assets and the capital requirement per the original Basel I guidelines	62b	60b	
62	Regulation Before the Global	Describe measures introduced in the 1995 and 1996 amendments, including guidelines for netting of credit exposures and methods for calculating market risk capital for assets in the trading book	62c	60c	
	Financial Crisis	the three pillars	62d	60d	
		Compare the standardized internal ratings-based (IRB) approach, the foundation IRB approach, and the advanced IRB approach for the calculation of credit risk capital under Basel II	62e	60e	

Readin	Reading	Learning Outcome	2025	2024	Changes
g No.	Name		LOS	LOS	
	Capital	Calculate credit risk capital under Basel II utilizing the IRB approach	62f	60f	
62	Regulation Before the Global	Compare the basic indicator approach, the standardized approach, and the advanced measurement approach for the calculation of operational risk capital under Basel II	62g	60g	
	Financial Crisis	Summarize elements of the Solvency II capital framework for insurance companies	62h	60h	
		Describe and calculate the stressed VaR introduced in Basel 25 and calculate the market risk capital charge	63a	61a	
		Explain the process of calculating the incremental risk capital charge for positions held in a bank's trading book	63b	61b	
		Describe the comprehensive risk (CR) capital charge for portfolios of	63c	61c	
		positions that are sensitive to correlations between default risks	030	ore	
	Solvency,	Define in the context of Basel III and calculate where appropriate:			
	Liquidity, and	- Tier 1 capital and its components	63d	61d	
	Other	- Tier 2 capital and its components	000	010	
63	Regulation	- Required Tier 1 equity capital, total Tier 1 capital, and total capital			
	After the	Describe the motivations for and calculate the capital conservation buffer			
	Global	and the countercyclical buffer, including special rules for globally	63e	61e	
	Financial Crisis	systemically important banks (G-SIBs)			
		Describe and calculate ratios intended to improve the management of	(0)	( ) (	
		liquidity risk, including the required leverage ratio, the liquidity coverage	63f	61f	
		ratio, and the net stable funding ratio			
		Describe the mechanics of contingent convertible bonds (CoCos) and explain	63g	61g	
		the motivations for banks to issue them	Ŭ	Ŭ	
		Provide examples of legislative and regulatory reforms that were	63h	61h	
		introduced after the 2007-2009 financial crisis			
		Explain the motivations for revising the Basel III framework and the goals	64a	62a	
		and impacts of the December 2017 reforms to the Basel III framework			
		Summarize the December 2017 revisions to the Basel III framework in the			
	High-level	following areas:			
	summary of	- The standardized approach to credit risk			
64	Basel III	- The internal ratings-based (IRB) approaches for credit risk	64b	62b	
	reforms	- The CVA risk framework			
		- The operational risk framework			
		- The leverage ratio framework			
		Describe the revised output floor introduced as part of the Basel III reforms	64c	62c	
		and approaches to be used when calculating the output floor			
		Explain the elements of the new standardized approach to measure			
		operational risk capital, including the business indicator, internal loss	65a	63a	
		multiplier, and loss component, and calculate the operational risk capital	500	550	
	Basel III-	requirement for a bank using this approach			
65	Finalising post-	Compare the Standardized Measurement Approach (SMA) to earlier			
	crisis reforms	methods of calculating operational risk capital, including the Advanced	65b	63b	
		Measurement Approaches (AMA)			
		Describe general and specific criteria recommended by the Basel Committee			
		for the identification, collection, and treatment of operational loss data	65c	63c	
		the second and realised of the realised of the second and			
		Liquidity Risk			
		Explain and calculate liquidity trading risk via cost of liquidation and liquidity-adjusted VaR (LVaR)	66a	64a	
66	Liquidity Risk	Identify examples of liquidity funding risk, funding sources, and lessons			
		learned from real cases: Northern Rock, Ashanti Goldfields, and Metallgesellschaft	66b	64b	reworded

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
3		Evaluate Basel III liquidity risk ratios and BIS principles for sound liquidity	66c	64c	
66	Liquidity Risk	risk management	000	040	
		Explain liquidity black holes and identify the causes of positive feedback trading	66d	64d	
		Differentiate between sources of liquidity risk and describe specific challenges faced by different types of financial institutions in managing liquidity risk	67a	65a	
		Summarize the asset-liability management process at a fractional reserve bank, including the process of liquidity transformation	67b	65b	
		Compare transactions used in the collateral market and explain risks that can arise through collateral market transactions	67c	65c	
67	Liquidity and Leverage	Describe the relationship between leverage and a firm's return profile (including the leverage effect), and explain the impact of different types of transactions on a firm's leverage and balance sheet	67d	65d	reworded
		Describe and compare methods to measure and manage funding liquidity risk and transactions liquidity risk	67e	65e	reworded
		Calculate the expected transactions cost and the spread risk factor for a transaction and calculate the liquidity adjustment to VaR for a position to be liquidated over a number of trading days	67f		
		Discuss interactions between different types of liquidity risk and explain how liquidity risk events can increase systemic risk	67g	65g	
		Evaluate the characteristics of sound Early Warning Indicators (EWI) measures	68a	66a	
68	Early Warning Indicators		68b	66b	
	indicators	Discuss the applications of EWIs in the context of the liquidity risk management process	68c	66c	
	The Investment	Compare various money market and capital market instruments and discuss	69a	67a	
69	Function in Financial-	their advantages and disadvantages Identify and discuss various factors that affect the choice of investment securities by a bank	69b	67b	
	Services Management	Apply investment maturity strategies and maturity management tools based on the yield curve and duration	69c	67c	
		Calculate a bank's net liquidity position and explain factors that affect the supply and demand of liquidity at a bank	70a	68a	
	Liquidity and Reserves	Compare strategies that a bank can use to meet demands for additional liquidity	70b	68b	
70	Management- Strategies and	Estimate a bank's liquidity needs through three methods (sources and uses of funds, structure of funds, and liquidity indicators)	70c	68c	
	Policies	Summarize the process taken by a US bank to calculate its legal reserves		68d	
		Differentiate between factors that affect the choice among alternate sources of reserves		68e	
		Identify and explain the uses and sources of intraday liquidity	71a	69a	
	Intraday	Discuss the governance structure of intraday liquidity risk management	71b	69b	
71	Liquidity Risk Management	Differentiate between methods for tracking intraday flows and monitoring	71c	69c	
		risk levels Differentiate between deterministic and stochastic cash flows and provide examples of each	72a	70a	reworded
72	Monitoring Liquidity	Describe and identify examples of liquidity options and explain the impact of liquidity options on a bank's liquidity position and its liquidity management process	72b	70b	reworded
		Describe and apply the concepts of liquidity risk, funding cost risk, liquidity generation capacity, expected liquidity, and cash flow at risk	72c	70c	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
		Interpret the term structure of expected cash flows and cumulative cash flows	72d	70d	
72	Monitoring Liquidity	Discuss the impact of available asset transactions on cash flows and liquidity generation capacity	72e	70e	
	The Egilure	Compare and contrast the major lines of business in which dealer banks operate and the risk factors they face in each line of business	73a	71a	
	Mechanics of Dealer Banks	chanics of aler Banks	73b	71b	
	Dedier Banks	Assess policy measures that can alleviate firm-specific and systemic risks related to large dealer banks	73c	71c	
	Linuidian Caroos	Differentiate between various types of liquidity, including funding, operational, strategic, contingent, and restricted liquidity	74a	72a	
74	Liquidity Stress	Estimate contingent liquidity via the liquid asset buffer	74b	72b	
	Testing	Discuss liquidity stress test design issues such as scope, scenario development, assumptions, outputs, governance, and integration with other risk models	74c	72c	
	I	Describe best practices for the reporting of a bank's liquidity position	75a	73a	reworded
75	Liquidity Risk	Compare and interpret different types of liquidity risk reports	75b	73b	
75	Reporting and Stress Testing	Explain the process of reporting a liquidity stress test and interpret a liquidity stress test report	75c	73c	
	Contingency	Discuss the relationship between contingency funding planning and liquidity stress testing	76a	74a	
76	Funding	Describe best practices in the design of a sound contingency funding plan	76b	74b	reworded
70	Planning	Assess the key components of a contingency funding plan (governance and oversight, scenarios and liquidity gap analysis, contingent actions, monitoring and escalation, and data and reporting)	76c	74c	
		Differentiate between the various transaction and non-transaction deposit types	77a	75a	
77	Managing and Pricing Deposit	Compare the different methods used to determine the pricing of deposits and calculate the price of a deposit account using cost-plus, marginal cost, and conditional pricing formulas	77b	75b	
	Services	Explain challenges faced by banks that offer deposit accounts, including deposit insurance, disclosures, overdraft protection, and basic (lifeline) banking	77c	75c	
		Distinguish between the various sources of non-deposit liabilities at a bank	78a	76a	
	Managing Non	Describe and calculate the available funds gap	78b	76b	
78	deposit	Discuss factors affecting the choice of non-deposit funding sources	78c	76c	
	Liabilities	Calculate overall cost of funds using both the historical average cost approach and the pooled-funds approach	78d	76d	
		Describe the mechanics of repurchase agreements (repos) and calculate the settlement for a repo transaction	79a	77a	
		Discuss common motivations for entering into repos, including their use in cash management and liquidity management	79b	77b	
79	Repurchase	Explain how counterparty risk and liquidity risk can arise through the use of repo transactions	79c	77c	reworded
	Agreements and Financing	Assess the role of repo transactions in the collapses of Lehman Brothers and Bear Stearns during the 2007-2009 financial crisis	79d	77d	
		Compare the use of general and special collateral in repo transactions	79e	77e	
		Identify the characteristics of special spreads and explain the typical behavior of US Treasury special spreads over an auction cycle	79f	77f	
		Calculate the financing advantage of a bond trading special when used in a repo transaction	79g	77g	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
9110.	Hume	Discuss the process of liquidity transfer pricing (LTP) and identify best	80a	78a	
80	Liquidity	practices for the governance and implementation of an LTP process			
	Transfer Pricing-A	Discuss challenges that may arise for banks during the implementation of LTP Compare the various approaches to liquidity transfer pricing (zero cost,	80b	78b	
	Guide to Better Practice	average cost, and matched-maturity marginal cost)	80c	78c	
		Describe the contingent liquidity risk pricing process and calculate the cost of contingent liquidity risk	80d	78d	
	The US Dollar Shortage in	Identify the causes of the US dollar shortage during the Great Financial Crisis	81a	79a	
01	Global Banking and	Evaluate the importance of assessing maturity/currency mismatches across the balance sheets of consolidated entities	81b	79b	
81	the International	Describe the policy response by international central banks to alleviate the US dollar shortage and assess its effectiveness	81c		
	Policy Response	Discuss how central bank swap agreements overcame challenges commonly associated with international lenders of last resort		79c	
	Response Covered Interest Parity	Differentiate between the mechanics of foreign exchange (FX) swaps and cross-currency swaps	82a	80a	
82	Lost- Understandina	Identify key factors that affect the cross-currency swap basis	82b	80b	
	Understanding the Cross- Currency Basis	Assess the causes of covered interest rate parity violations after the financial crisis of 2008	82c	80c	
	Risk Management	Discuss how asset-liability management strategies can help a bank hedge against interest rate risk	83a	81a	
83	Interest Rates- Asset-Liability Management	Describe interest-sensitive gap management and apply this strategy to maximize a bank's net interest margin	83b	81b	
00		Describe duration gap management and apply this strategy to protect a bank's net worth	83c	81c	
	and Duration Techniques	Discuss the limitations of interest-sensitive gap management and duration gap management	83d	81d	
		Evaluate the characteristics of illiquid markets	84a	82a	
		Discuss the relationship between market imperfections and illiquidity	84b	82b	reworded
		Assess the impact of biases on reported returns for illiquid assets	84c		
84	Illiquid Assets	Explain the process of unsmoothing returns and the effects of unsmoothing	84d		reworded
	·	Compare illiquidity risk premiums across and within asset categories	84e	82e	
		Evaluate the impact of allocating illiquid assets to a portfolio, including the impact on rebalancing and trading and on optimizing the proportion of illiquid assets	84f	82f	
		Investment Risk			
		Describe factors that impact asset prices and explain the theory of factor risk premiums	85a	83a	reworded
		Discuss the capital asset pricing model (CAPM) including its assumptions and explain how factor risk is addressed in the CAPM	85b	83b	
85	Factor Theory	Explain the implications of using the CAPM to value assets, including equilibrium and optimal holdings, exposure to factor risk, its treatment of diversification benefits, and shortcomings of the CAPM	85c	83c	
		Describe multifactor models and compare and contrast multifactor models to the CAPM	85d	83d	
		Explain how stochastic discount factors are created and apply them in the valuation of assets	85e	83e	
		Describe efficient market theory and explain how markets can be inefficient	85f	81a 81b 81c 81d 82a 82b 82c 82d 82c 82d 82e 82f 83a 83a 83b	

Readin	Reading	Learning Outcome	2025	2024	Changes
g No.	Name		LOS	LOS	
		Describe the process of value investing and explain why a value premium may exist	86a	84a	
86		Explain how different macroeconomic risk factors, including economic growth, inflation, and volatility, affect asset returns and risk premiums	86b	84b	
	Factors	Assess methods of mitigating volatility risk in a portfolio and describe challenges that arise when managing volatility risk	86c	84c	
		Explain how dynamic risk factors can be used in a multifactor model of asset returns, using the Fama-French model as an example	86d	84d	
		Compare value and momentum investment strategies, including their return and risk profiles	86e	84e	
		Describe and evaluate the low-risk anomaly of asset returns	87a	85a	
		Define and calculate alpha, tracking error, the information ratio, and the Sharpe ratio	87b	85b	
		Explain the impact of benchmark choice on alpha and describe characteristics of an effective benchmark to measure alpha	87c	85c	
	Alpha and the	Describe Grinold's fundamental law of active management, including its assumptions and limitations, and calculate the maximum attainable information ratio using this law	87d	85d	<pre>Changes Changes C</pre>
87	Low-Risk Anomaly	Apply a factor regression to construct a benchmark with multiple factors, measure a portfolio's sensitivity to those factors, and measure alpha against that benchmark	87e	85e	
		Explain how to use style analysis to handle time-varying factor exposures	87f	85f 85g 85h	
		Describe issues that arise when measuring alphas for nonlinear strategies	87g		
		Compare the volatility anomaly and the beta anomaly and analyze evidence of each anomaly	87h		
		Describe potential explanations for the risk anomaly	87i	85i	
	De cho Evo	Describe the inputs to the portfolio construction process and explain challenges faced when using these inputs	88a	86a	
		Evaluate the motivation for and the methods used for refining alphas in the implementation process	88b	86b	
		Describe neutralization and the different approaches used for refining alphas to be neutral	88c	85h 85i 86a 86b 86c	
		Explain the implications of transaction costs on portfolio construction	88d	86d	reworded
		Describe practical issues in portfolio construction, including the determination			
88	Portfolio Construction	of an appropriate risk aversion, aversions to specific risks, and proper alpha coverage	88e	86e	
		Describe portfolio revisions and rebalancing, and analyze the tradeoffs between alpha, risk, transaction costs, and time horizon	88f	LOS 84a 84b 84b 84c 84d 84d 85a 85b 85c 85c 85d 85f 85g 85f 85g 85f 85g 85f 85g 85f 85g 85h 85g 85h 85g 85h 85g 85h 85g 85h 85d 85d	
		Determine the optimal no-trade region for rebalancing with transaction costs	88g		
		Evaluate the strengths and weaknesses of the following portfolio construction techniques: screens, stratification, linear programming, and quadratic programming	88h	86h	
		Describe dispersion, explain its causes, and describe methods for controlling forms of dispersion	88i	86i	
		Define, calculate, and compare the following portfolio VaR measures: diversified and undiversified portfolio VaR, individual VaR, incremental VaR, marginal VaR, and component VaR	89a	87a	reworded
		Explain the impact of correlation on portfolio risk	89b	87b	
89	Portfolio Risk- Analytical	Apply the concept of marginal VaR in making portfolio management decisions	89c	87c	
	Methods	Explain and calculate the risk-minimizing position and position that maximizes the ratio of expected return to risk	89d	87d	
		Explain the difference between risk management and portfolio management and describe how to use marginal VaR in portfolio management	89e	85α           85b           85c           85c           85d           85d           85e           85f           85g           85f           85g           85f           85g           86a           86b           86c           86d           86d           86d           86d           86d           86d           86f           86g           86h           86j           87a           87a           87d	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
g 110.	Name				
		Define risk budgeting	90a	88a	
90		Describe the impact of horizon, turnover, and leverage on the risk	90b	88b	
		management process in the investment management industry	90c	88c	
		Describe the investment process of large investors such as pension funds	90c	880	
	VaR and Risk Budgeting in	Describe the risk management challenges associated with investments in hedge funds	90d	88d	
	Investment Management	Describe and compare the following types of risk: absolute risk, relative risk, policy-mix risk, active management risk, funding risk, and sponsor risk	90e	88e	reworded
	Managemen	Explain the use of VaR to monitor risk	90f	88f	reworded
		Explain how VaR can be used in the development of investment guidelines	90g	88g	
		and for improving the investment process	70g	ooy	
		Describe the risk budgeting process and calculate risk budgets across asset classes and active managers	90h	88h	reworded
		Describe the three fundamental dimensions behind risk management, and	91a	89a	
		their relation to VaR and tracking error	910	070	
		Describe risk planning, including its objectives, effects, and the participants in	91b	89b	
		its development	710	075	
		Describe risk budgeting and the role of quantitative methods in risk budgeting	91c	89c	
	Risk Monitoring	Describe risk monitoring and its role in an internal control environment	91d	89d	
	and	Identify sources of risk consciousness within an organization	91e	89e	
91	Performance	Describe the objectives and actions of a risk management unit in an investment management firm	91f	89f	
	Measurement	Explain how risk monitoring can confirm that investment activities are consistent with expectations	91g	89g	reworded
		Describe the Liquidity Duration Statistic and how it can be used to measure liquidity	91h	89h 89i	
		Describe the objectives of performance measurement tools	91i		
		Explain the use of alpha, benchmarks, and peer groups as inputs in performance measurement tools	91j	89j	reworded
		Differentiate between the time-weighted and dollar-weighted returns of a			
		portfolio and describe their appropriate uses	92a	90a	
		Describe risk-adjusted performance measures, such as Sharpe's measure,			
		Treynor's measure, Jensen's measure (Jensen's alpha), and the information ratio, and identify the circumstances under which the use of each measure is most relevant	92b	90b	
		Describe the uses for the Modigliani-squared and Treynor's measure in			
		comparing two portfolios and the graphical representation of these	92c	90c	
	Portfolio	Determine the statistical significance of a performance measure using standard error and the t-statistic	92d	90d	
92	Performance	Describe style analysis	92e	90e	
	Evaluation	Explain the difficulties in measuring the performance of actively managed portfolios	92f	90f	
		Describe performance manipulation and the problems associated with using conventional performance measures	92g	90g	
		Describe techniques to measure the market timing ability of fund managers with a regression and with a call option model and calculate a manager's return due to market timing	92h	90h	reworded
		Describe and apply performance attribution procedures, including the asset allocation decision, sector and security selection decision, and the aggregate contribution	92i	90i	
		Explain biases that are commonly found in databases of hedge funds	93a	91a	
93	Hedge Funds	Explain the evolution of the hedge fund industry and describe landmark			
	, , , , , , , , , , , , , , , , , , ,	events that precipitated major changes in the development of the industry	93b	91b	

Readin	Reading	Learning Outcome	2025	2024	Changes
g No.	Name		LOS	LOS	
		Explain the impact of institutional investors on the hedge fund industry and assess reasons for the growing concentration of assets under management (AUM) in the industry	93c	91c	
		Explain the relationship between risk and alpha in hedge funds	93d	91d	
		Compare and contrast the different hedge fund strategies, describe their return characteristics, and describe the inherent risks of each strategy	93e	91e	
93	Hedge Funds	Describe the historical portfolio construction and performance trends of hedge funds compared to those of equity indices	93f	f 91f	
		Describe market events that resulted in a convergence of risk factors for different hedge fund strategies and explain the impact of such convergences on portfolio diversification strategies	93g	91g	Changes
		Describe the problem of risk sharing asymmetry between principals and agents in the hedge fund industry	93h	91h	
		Identify reasons for the failures of hedge funds in the past	94a	92a	
		Explain elements of the due diligence process used to assess investment managers	94b	92b	
	Performing	Identify themes and questions investors can consider when evaluating a hedge fund manager	94c	92c	
94	Due Diligence on Specific	Describe criteria that can be evaluated in assessing a hedge fund's risk management process	94d	92d	Changes         Ic       Interprete         Id       Interprete         If       In
	Funds envi	environment	94e	92e	
		Explain how a hedge fund's business model risk and its fraud risk can be assessed	94f	92f	
		Describe elements that can be included as part of a due diligence questionnaire	94g	92g	
	Predicting	Explain the use and efficacy of information disclosures made by investment advisors in predicting fraud	95a	93a	
95	Fraud by Investment	Describe the barriers and the costs incurred in implementing fraud prediction methods	95b	93b	
	Managers	Discuss ways to improve investors' ability to use disclosed data to predict fraud	95c	93c	
		Describe the events leading up to the failure of Silicon Valley Bank		94a	
		Describe shortfalls and deficiencies in the Federal Reserve's supervisory oversight of Silicon Valley Bank during the period that the bank transitioned from the Fed's Regional Banking Organization (RBO) portfolio to its Large and Foreign Banking Organization (LFBO) portfolio		94b	
	Review of the Federal	Identify Silicon Valley Bank's specific risk issues which led to and accelerated its failure including deposit concentration, type of deposits, held-to-maturity securities, available-for-sale securities, the bank's contingent funding plan and capacity, and its capital raising efforts		94c	
	Reserves Supervision and Regulation of Silicon Valley Bank	Identify and describe the failures and shortfalls of Silicon Valley Bank in the areas of governance and risk management including those related to the CRO position and the bank's internal audit function		94d	
		Identify the scope of Silicon Valley Bank's liquidity risk management deficiencies and shortfalls, including its modeling and stress testing of its 30- day liquidity buffer, as well as the actions that management and regulators considered to address these specific liquidity issues		94e	
		Describe the deficiencies in Silicon Valley Bank's interest rate risk management process, including its modelling process, and explain how proper use of metrics such as net interest income (NII) at risk and economic value of equity (EVE) could have improved its management of interest rate risk		94f	

Readin	Reading		2025	2024	
g No.	Name	Learning Outcome	LOS	LOS	Changes
		Describe the features and mechanics of contingent convertible bonds (CoCos) and explain the rationale for banks to issue them		95a	
		Explain the rescue of Credit Suisse by Swiss regulators in 2023 and			
		compare it to the rescue of Bear Stearns by US regulators during the financial crisis in 2008		95b	
		Explain the rationale for the write-down of Credit Suisse CoCos that was engineered by regulators during the rescue of Credit Suisse and its takeover by UBS		95c	
	Regulation	Describe the reactions by market participants to the write-down of the CoCos, and explain and evaluate different arguments and lessons learned related to the decision to write down the CoCos		95d	
	1	Current Issues			
		Evaluate the Credit Suisse case and its implications for the international resolution framework	96a		
	2023 Bank Failures,	Evaluate the US bank failures of 2023 and their implications for the international resolution framework	96b		
96	Preliminary lessons learnt for resolution	Identify and describe the strengths and weaknesses of the resolution framework as demonstrated by Credit Suisse case and the US bank failures of 2023	96c	OS         LOS           95a         95a           95b         95c           95c         95c           96a         95c           96a         95c           97a         97a           98a         97a           98a         97a           97a         97a	
	Tor resolution	Describe the uncovered issues for bank resolution that require further studies and development for future improvements on the implementation of the international resolution framework	96d		
		Compare generative AI and traditional AI/ML algorithms	97a		
97	Generative Artificial	Explain the challenges generative Al systems pose for the financial sector, including those related to data privacy, embedded bias, model robustness, and explainability	97b		
47	Intelligence in Finance-Risk Considerations	Examine the use of synthetic data to enhance AI models and the potential risks associated with synthetic data generation and application	97c		
	Considerations	Evaluate the cybersecurity threats and potential impact on financial stability posed by the use of generative AI in the financial sector	97d		
		Identify and describe the risks arising from the widespread use of AI applications in the financial sector	98a		
	Artificial intelligence	Describe how central banks can harness AI to fulfill their policy objectives	98b		
98	and the economy- implications for	Explain the macroeconomic impact of AI, including implications for firms' productive capacity and investment, labor productivity, household consumption, economic output, inflation, and fiscal sustainability	98c		
	central banks	Explain how the use of AI presents new opportunities and challenges for central banks, including the central banks' role as users and providers of data, and the trade-offs posed by their use of both internally-developed and external AI models	98d		
		Describe the mechanisms through which changes in market interest rates affect a bank's economic value and the key methods banks use to manage interest rate risk	99a		
99	Interest Rate Risk Management by EME Banks	Compare the methods banks in emerging market economies (EME) and banks in advanced economies have historically used to manage their interest rate risk and how these methods affected their vulnerability to changes in interest rates	pare the methods banks in emerging market economies (EME) and banks vanced economies have historically used to manage their interest rate and how these methods affected their vulnerability to changes in interest		
		Explain the recent changes in EME banks' exposure to interest rate risk and the importance of hedging this risk	99c	95c	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
<u> </u>		Explain why the sudden increase in inflation that reached a peak in 2022 following the Covid-19 pandemic did not result in a full-scale global	100a		
100	Laying a	recession Identify and describe key factors that played a role in the process of disinflation around the world over the past year	100b		
	robust macro- financial foundation for	Describe policy measures introduced and implemented by different central banks aimed at driving their economies toward meeting inflation targets	100c		
	the future	Discuss how monetary policy changes enacted by central banks to reduce inflation impacted equity prices, credit spreads, bond and equity volatilities, and bank lending	100d	LOS	
		Describe monetary, fiscal, prudential, and structural policies that need to be adopted to promote (long-term) sustainable economic growth and low inflation	100e		
		Describe characteristics of private credit, including its typical investors and borrowers, and compare private credit to other types of loans and fixed- income instruments	101a		
101	The Rise and Risks of Private	Explain the return profile and growth profile of the private credit asset class, and compare the historical returns of private credit to those of other asset classes	101b		
	Credit	Describe and assess the risks and vulnerabilities related to private credit, and explain how private credit can pose risks to financial stability	101c	· · · · · · · · · · · · · · · · · · ·	
		Assess potential policy recommendations that could help mitigate the risks associated with private credit	101d		
	Monetary and	Compare and contrast the channels through which fiscal policy and monetary policy influence a country's economic activity and financial markets, and define the "region of stability" in terms of their joint policy stances	102a		
102	fiscal policy- safeguarding stability and	Describe the consequences of breaching the boundaries of the region of stability, and how these consequences have evolved over time in advanced economies and in emerging market economies	102b		
	trust	Describe the risks that global economies face as a result of high public debt levels, including the potential for these high debt levels, in combination with other factors, to drive tension between fiscal policy and monetary policy	102c		
		Define and describe crypto assets, including the categories broadly used by global financial regulators to classify them	103a		
	Regulating the Crypto Ecosystem-The	Evaluate the key components within the crypto ecosystem, the potential risks generated by these components, and potential regulatory responses to address those risks	103b		
103	Case of Unbacked	Identify and describe some of the global approaches to the regulation of unbacked crypto assets, including the BCBS' proposed treatment of banks' exposures to crypto assets	103c		
		Examine the considerations and steps introduced by the Bali Fintech Agenda (BFA) for developing a regulatory framework for crypto assets	103d		
104		Describe characteristics of cyber risks and information/communication technology (ICT) risks faced by financial institutions	104a	103a	
	Digital Resilience and Financial	Assess the interactions between cyber and ICT risks and financial risks and explain how cyber and ICT risk events at financial institutions can lead to systemic financial risk	104b	103b	
	Stability	Describe potential macroprudential tools and policy measures that can be used to address cyber risks and ICT risks and explain challenges to the adoption of each one	104c	103c	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
		Describe historical evolution and common types of Al-based applications used in the financial sector		96a	
	Artificial Intelligence	Explain the advantages of implementing Al-based applications to the banking services companies and their customers		96b	
	and Bank Supervision	Discuss the disadvantages and difficulties for financial companies using AI		96c	
		Clarify the specific issues faced by banks and regulators arising from utilizing Al in modeling and valuation		96d	
		Describe the challenge posed by potential model bias and the ethical and responsible considerations surrounding the implementation of Al-driven solutions in financial risk management		97a	
	Financial Risk Management and	Analyze the potential benefits and challenges of utilizing AI while maintaining fairness and preventing biases in risk assessment and decision- making		97b	
	Explainable, Trustworthy,	Explain the proposed considerations for the technical validation of decision- making algorithms to check for potential unfairness		97c	
	Responsible Al	Describe the approaches and technologies that should be considered in the implementation and assessment of Trustworthy Al		97d	
		Examine the application of Explainable AI (XAI) in the field of credit risk management as presented in the use case of a European insurance group		97e	
		Describe how organizations can frame the risks related to AI and explain the challenges that should be considered in AI risk management		98a	
	Artificial Intelligence	Identify AI actors across the AI lifecycle dimensions and describe how these actors work together to manage risks and achieve the goals of trustworthy and responsible AI		98b	
	Risk Management	Describe the characteristics of trustworthy AI and analyze the proposed guidance to address them		98c	
	Framework	Explain the potential benefits of periodically evaluating Al risk management effectiveness		98d	
		Describe specific functions applied to help organizations address the risks of Al systems in practice		98e	
	Climate- Related Risk	Describe climate-related risk drivers and explain how those drivers give rise to different types of risks for banks		99a	
	Drivers and their	Compare physical and transition risk drivers related to climate change Assess the potential impact of different microeconomic and macroeconomic		99b	
	Transmission Channels	drivers of climate risk Describe and assess factors that can amplify the impact of climate-related		99c 99d	
		risks on banks as well as potential mitigants for these risks Describe main issues in identifying and measuring climate-related financial risks		100a	
	CI:	Identify unique data needs inherent in the climate-related risks and describe candidate methodologies that could be used to analyze these types of data		100b	
	Climate- Related Financial Risks- Measurement Methodologies	Describe current and developing methodologies for measuring climate- related financial risks employed by banks and supervisors		100c	
		Compare and contrast climate-measuring methodologies utilized by banks, regulators, and third- party providers		100d	
		Identify strengths and weaknesses of the main types of measurement approaches		100e	
		Assess gaps and challenges in designing a modeling framework to capture climate-related financial risk		100f	

Readin g No.	Reading Name	Learning Outcome	2025 LOS	2024 LOS	Changes
	Principles for	Describe the principles for managing climate-related financial risks related to corporate governance and internal control framework		101a	
	the Effective Management	Describe the principles for managing climate-related financial risks related to capital and liquidity adequacy and the risk management process		101b	
	and Supervision of Climate- Related	Describe the principles for the management of climate-related financial risks related to management, monitoring, and reporting, comprehensive management of credit risk and other risks, and scenario analysis		101c	
	Financial Risks	Describe the principles for the supervision of climate-related financial risks related to prudential regulatory and supervisory requirements for banks and responsibilities, powers, and functions of supervisors		101d	
	The Crypto Ecosystem-Key	Describe the key elements of the crypto ecosystem, including unbacked crypto, stablecoins, smart contracts, and DeFi services		102a	
	Elements and Risks	Describe the structural flaws inherent in various elements of the crypto ecosystem		102b	
		Describe the risks crypto poses to parties including crypto investors, governments, regulators, and traditional financial institutions; and identify potential policy actions that can be taken to mitigate these risks		102c	