Course Syllabus: Doctoral Studies in Corporate Finance

Instructor Information: Name: Kentaro Asai E-mail Address: kentaro.asai@anu.edu.au

Course Description:

This course provides an overview of modern corporate finance. The growth of corporate finance theory has been spectacular since Modigliani and Miller developed the capitalstructure irrelevance proposition in 1958. After reviewing Modigliani and Miller (1958), we study the optimal capital structure under the presence of various frictions in which capital structure affects firm value. We cover trade-off theory, agency problem, security design, asymmetric information, and payout policy. In addition, we cover the literature on continuous-time model and banking.

Instructor Bio:

Kentaro Asai joined Australian National University in 2016 as an assistant professor in the College of Business and Economics. He earned his PhD, MA, and BA with Honors in economics from the University of Chicago. He has published internationally in scholarly journals and policy reports in economics and finance.

Assessment	Summary:
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Assessment Task	Value	Due Date	Date for Return of Assessment
1.Problem sets	20% x 2	ТВА	ТВА
2.Referee report	10%	ТВА	ТВА
3.Inclass presentation	10%	ТВА	ТВА
4.Take-home exam	40%	ТВА	ТВА

Course Schedule:

Week/ Session	Summary of Activities	Assessment
1	Introduction/Capital structure irrelevance	
2	Trade-off theory	
3	Agency theory	
4	Security design	Problem set 1 due
5	Security design if remaining, Problem set 1	
6	Asymmetric information model	Referee report due
7	Payout policy	

8	Continuous-time model	
9	Banking	Problem set 2 due
10	Misc	Presentation
11	Misc	Presentation
12	Misc	Presentation
	Examination period	Take-home exam due

Readings:

Textbook

The lecture is based on my lecture note published as

Kentaro Asai, 2021, "Corporate Finance and Capital Structure: A Theoretical Introduction." In addition, interested students may want to read

a. Jean Tirole, 2006, "The Theory of Corporate Finance."

b. Oliver Hart, 1995, "Firms, Contracts, and Financial Structure."

Capital structure choice in a frictionless world

a. Franco Modigliani and Merton H. Miller, 1958, "The Cost of Capital, Corporation Finance, and the Theory of Investment," American Economic Review 48: 261-297.

b. Merton H. Miller, 1988, "The M-M Propositions After 30 Years," Journal of Economic Perspectives 2: 99-120.

Trade-off theory

a. Merton H. Miller, 1977, "Debt and Taxes," Journal of Finance 32: 261-275.

b. James H Scott, 1976, "A Theory of Optimal Capital Structure," Bell Journal of Economics 7: 33-54.

c. Michael Bradley, Gregg A. Jarrell, E. Han Kim, 1984, "On the Existence of an Optimal Capital Structure: Theory and Evidence," Journal of Finance 39: 857-878.

Agency theory

a. Stewart C. Myers, 1977, "Determinants of Corporate Borrowing" Journal of Financial Economics 5: 147-175.

b. Michael C. Jensen and William H. Meckling, 1976, "Theory of the Firm: Managerial Behavior, Agency Costs and Ownership Structure," Journal of Financial Economics 3: 305-360.

c. Elazar Berkovitch and E. Han Kim, 1990, "Financial Contracting and Leverage Induced Over and Under-Investment Incentives," Journal of Finance 45: 765-794.

Security design

a. Bengt Holmstrom, 1979, "Moral Hazard and Observability," Bell Journal of Economics 10: 74-91.

b. Milton Harris and Artur Raviv, 1979, "Optimal Incentive Contracts with Imperfect Information," Journal of Economic Theory 20: 231-259.

c. Robert Innes, 1990, "Limited Liability and Incentive Contracting with Ex-ante Action Choices," Journal of Economic Theory 52: 45-67.

d. Robert M. Townsend, 1979, Optimal Contracts and Competitive Markets with Costly State Verification, Journal of Economic Theory 21: 265-293.

e. Douglas Gale and Martin Hellwig, 1985, "Incentive-Compatible Debt Contracts: The One-Period Problem," Review of Economic Studies 52: 647-663.

f. Oliver Hart and John Moore, 1988, "A Theory of Debt Based on the Inalienability of Human Capital," Quarterly Journal of Economics 109: 841-879.

g. Philippe Aghion and Patrick Bolton, 1992, "An Incomplete Contracts Approach to Financial Contracting," Review of Economic Studies 59: 473-494.

Asymmetric information model

a. Hayne Leland and David H Pyle, 1977, "Informational Asymmetries, Financial Structure, and Financial Intermediation," Journal of Finance 32: 371-387.

b. Stephen A. Ross, 1977, "The Determination of Financial Structure: The Incentive-Signalling Approach," The Bell Journal of Economics, 8: 23-40.

c. Stewart C. Myers and Nicholas S. Majluf, 1984, "Corporate Financing and Investment Decisions When Firms Have Information That Investors Do Not Have," Journal of Financial Economics, 13: 187-221.

d. Kevin Rock, 1986, "Why New Issues Are Underpriced?" Journal of Financial Economics, 15: 187-212.

Payout policy

a. Sudipto Bhattacharya, 1979, "Imperfect Information, Dividend Policy, and "The Bird in the Hand" Fallacy," Bell Journal of Economics 10: 259-70.

b. Merton Miller and Kevin Rock, 1985, "Dividend Policy under Asymmetric Information," Journal of Finance, 40: 1031-51.

c. Easterbrook, 1984, "Two Agency-Cost Explanations of Dividends," American Economic Review, 74: 650-9.

d. Eric Floyd, Nan Li and Douglas J. Skinner, 2015, "Payout Policy Through the Financial Crisis: The Growth of Repurchases and the Resilience of Dividends" Journal of Financial Economics, 118: 299-316.

e. Michael Rozeff, 1982, "Growth, Beta and Agency Costs as Determinants of Dividend Payout Ratios," Journal of Financial Research, 5:249-59.

Continuous-time model

a. Robert Merton, 1974, "On the Pricing of Corporate Debt: The Risk Structure of Interest Rates," Journal of Finance 29: 449-470.

b. Hayne Leland, 1994, "Corporate Debt Value, Bond Covenants, and Optimal Capital Structure," Journal of Finance 49: 1213-1252.

c. Hayne Leland, 1998, "Agency Costs, Risk Management, and Capital Structure," Journal of Finance 53: 1213-1243.

d. Robert Goldstein, Nengjiu Ju, Hayne Leland, 2001, "An EBIT-Based Model of Dynamic Capital Structure," Journal of Business 74: 483-512.

Banking

a. Douglas W. Diamond, 1984, "Financial Intermediation and Delegated Monitoring," Review of Economic Studies 51: 393-414.

b. Douglas W. Diamond and Philip H. Dybvig, 1983, "Bank Runs, Deposit Insurance, and Liquidity," Journal of Political Economy 91: 401-419.

c. Thomas F. Hellmann, Kevin C. Murdock, and Joseph E. Stiglitz, 2000, "Liberalization, Moral Hazard in Banking, and Prudential Regulation: Are Capital Requirements Enough?," American Economic Review 90: 147-165.

d. Franklin Allen and Douglas Gale, 2004, "Competition and Financial Stability," Journal of Money, Credit, and Banking 36: 453-480.

e. John H. Boyd and Gianni De Nicolo, 2005, "The Theory of Bank Risk Taking and Competition Revisited," Journal of Finance 60: 1329-1343.

f. David Martinez-Miera and Rafael Repullo, 2010, "Does Competition Reduce the Risk of Bank Failure?," Review of Financial Studies 23: 3638-3664.

Application

a. Joshua D. Angrist, Guido W. Imbens, and Donald B. Rubin, 1996, "Identification of Causal Effects Using Instrumental Variables," Journal of the American Statistical Association 91: 444-455.

b. Vladimir A. Atanasov and Bernard S. Black, 2015, "Shock-Based Causal Inference in Corporate Finance and Accounting Research," Critical Finance Review: forthcoming.c. Kai Li and Nagpurnanand Prabhala, 2005, "Self-Selection Models in Corporate Finance," Robert H. Smith School Research Paper.

I will add some new papers that test corporate finance theories, which will be announced later.