



FINANCE 611: CORPORATE FINANCE

FALL 2016

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Course Website: Available on Canvas

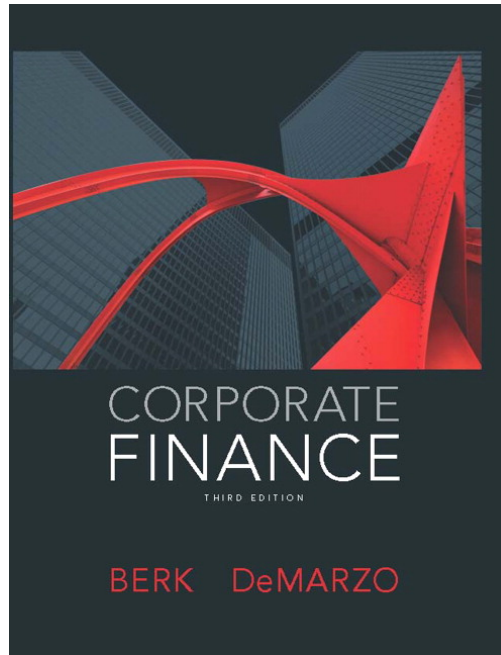
COURSE DESCRIPTION

This course is an in-depth introduction to the foundations of finance with an emphasis on applications that are vital for corporate managers. We will discuss most of the major financial decisions made by corporate managers both within the firm and in their interactions with investors. Essential in most of these decisions is the process of valuation, which will be emphasized throughout the course. Topics include criteria for making investment decisions, valuation of financial assets and liabilities, relationships between risk and return, capital structure choice, payout policy, the effective use and valuation of derivative securities (futures, options, and convertible securities), and risk management.

COURSE MATERIALS

Textbook

The textbook for the course is:



Corporate Finance (plus MyFinanceLab), Jonathan Berk and Peter DeMarzo, 3rd ed., Pearson - Prentice Hall, 2014. (SBN-10: 0-13-342415-4; ISBN-13: 978-0-13-342415-7)

You must have access to both the book and MyFinanceLab. **Note: We are using the *third* edition.**

Slides

PowerPoint slides for are available on Canvas, and will be distributed in class before lectures.

Cases

Cases are available on Study.net, which is accessible via Canvas.

Additional Material

Additional material (e.g., notes, supplemental exercises and material, etc.) will be made available on Canvas under Files.

CLASS PREPARATION AND PARTICIPATION

Come to class having read the required reading and worked the case, if relevant. Class time is for exploring and applying the principles you learn from reading the textbook and working the cases.

An important by-product of proper preparation is that it lessens the chances of falling behind in the course and being unable to catch up. This course covers a large amount of material in significant depth. It is very easy to fall behind. Consider this a warning. *Do not fall behind.*

CASES

Students are encouraged to form groups of *no more than four* students for the purpose of working the case. Neither the TAs nor I will answer any questions related to the cases prior to their discussion in class, as an important element of these assignments is your ability to interpret information and work independently of any guidance. At the start of the class in which we discuss the case, you will be required to answer a few questions related to the case to test your knowledge and understanding of the case material.

HOMEWORK ASSIGNMENTS

Homework assignments are available on MyFinanceLab. The assignment schedule is provided at the end of this syllabus below the class schedule. You must purchase access to this site and register for the course by entering the course code, “roberts92388.” You will receive unlimited attempts at the homework. (You can re-take the homework assignment as often as you like by undertaking “similar exercises” in MyFinanceLab.) Getting less than full points on a homework assignment puts you at a considerable disadvantage when the final grade is computed.

Neither the TAs nor I will answer any questions pertaining to the homework, as an important element of the homework is your ability to work on the mechanics of finance independently of any guidance. If you miss the due date, which is clearly identified in MyFinanceLab, you will receive a zero. *There are no exceptions so do not ask for one.*

For those looking for additional problems to test the understanding of the material, I have posted problem sets, and their solutions, on Canvas in the folder “Additional Problems.” There are also problems at the end of each chapter in the textbook, as well as problems scattered throughout each chapter.

EXAMS

There is a midterm and a final exam. Both exams are open book and you are free to bring a calculator to the exam. Laptops, tablets, and computers are not permitted for space reasons and

the exams will be designed to recognize this limitation in computing power. The exam dates are provided in the Course Schedule attached to the end of this syllabus. There are no makeup exams. If you miss the midterm exam, regardless of the reason, your final score will be used in its place. If you miss the final exam, you will automatically fail the course. The only excuse for missing the final exam is a medical emergency, the validity of which will be verified by the University.

The best way to prepare for the exams is to come to class and participate, work all of the cases, and complete the homework assignments. For additional preparation, try the problems sets available in the “Additional Problems” folder on Canvas and the problems at the end of each chapter in the textbook.

GRADING

Your course grade will be determined by your class participation (10%), performance on the case questions (15%), completion of the MyFinanceLab homework assignments (15%), a midterm (25%), and a final exam (35%). If your score on the final exam is greater than that on the midterm, I will replace your midterm score with your final score, which will then count for 50% of your grade. However, this substitution can only occur if you take the midterm and receive a minimum number of points to be determined at the time of the exam.

Class grades are determined using a class-wide (i.e., across all FNCE 611 sections) curve that respects any constraints imposed by the University or Wharton.

Students have exactly one week from the day that the graded midterm is distributed to request a regrade. The request must be attached to the exam and clearly state the reason(s) for the regrade. The only valid reason for a regrade is an error on my part. I will not debate the merits of my grading scheme. If the regrade request is accepted, the exam will be regarded in its entirety by me. As a result, the revised score may go up, down, or stay the same.

I will schedule two days during the Spring semester during which you may view your final and discuss your grades. These days will be announced during the semester. Any concerns regarding final exam or course grade will be settled at that time.

COURSE ETIQUETTE

The only electronics allowed in the classroom are calculators. Please make sure any other electronics are shut off and put away.

Students are expected to respect the University of Pennsylvania's Code of Academic Integrity (http://www.upenn.edu/academicintegrity/ai_codeofacademicintegrity.html) and to behave with integrity in all aspects of the course. Students are encouraged to discuss the cases and other content of the course with first-year MBA student in their own section and in other sections. However, students should not discuss the content related to the current day's class discussion or exam during the time period between sections to avoid giving later sections an unfair advantage.

Violations of the honor code will be immediately reported to the administration.

ATTENDANCE

Students are expected to attend all classes and arrive on time. I also ask the you avoid disrupting class by leaving early. I recognize that personal emergencies occasionally arise, causing a student to miss a class or part of a class. If such a circumstance arises, please notify me via email of the situation. If circumstances do not permit prior notification, please do so as soon after the missed class as possible.

FACULTY MEALS

If you are interested in getting lunch, please sign up on Canvas. I have allocated a number of days during the semester and past experience suggests that they are fun and a great way to get to know each other.

COMMUNICATING WITH ME

The best way to contact me outside of the classroom is via email. Please do not ask me long, detailed questions about the course, or questions that (may) require a long, detailed response. I am happy to meet with students outside the classroom so email me to schedule an appointment.

Please let me know of any difficulties you may be having with the course as soon as possible. These difficulties may arise from the course itself, or external forces (e.g., other courses, personal issues). Regardless of the source, let me know as soon as possible so we can work together to avoid larger problems later on. Wharton and the University offer a wide range of support services that are geared towards helping students.

Corporate Finance Course Outline

Preliminary and Subject to Change

Topic 0: Course Introduction and Overview

- Read:
 - Syllabus
 - Canvas course website containing all non-copywritten material
 - Study.net containing all copywritten material

Topic 1: Time Value of Money

- Read:
 - Chapter.Section:
 - 3.2 (Interest Rates and the Time Value of Money)
 - 4.1 (The Timeline)
 - 4.2 (The Three Rules of Time Travel)
 - 4.3 (Valuing a Stream of Cash Flows)
 - 4.5 (Perpetuities and Annuities)
 - 4.6 (Using an Annuity Spreadsheet or Calculator)
 - 4.7 (Non-Annual Cash Flows)
 - 4.8 (Solving for the Cash Payments)
 - 4.Appendix (Solving for the Number of Periods)
 - 5.4 (Risk and Taxes)
- Concepts:
 - Discounting
 - Compounding
 - Present value
 - Future value
 - Taxes
 - Inflation
- Applications:
 - Valuing zero-coupon bonds
 - Valuing and structuring annuities and perpetuities
 - Savings
 - Retirement planning

Topic 2: Interest Rates

- Read:
 - Chapter.Section:
 - 5.1 (Interest Rate Quotes and Adjustments)
 - 5.2 (Application: Discount Rates and Loans)
 - 5.3 (The Determinants of Interest Rates)
 - 5.5 (The Opportunity Cost of Capital)
- Concepts:
 - APR
 - Periodic Rates

- Effective Annual Rate
- Yield to maturity
- Yield curves
- Spot Rates
- Applications:
 - Savings vehicles
 - Mortgage financing and refinancing decisions

Topic 3: Discounted Cash Flow (DCF) Analysis

- Read:
 - Chapter.Section:
 - 2 (Introduction to Financial Statement Analysis)
 - 3.1 (Valuing Decisions)
 - 3.3 (Present Value and the NPV Decision Rule)
 - 7.1 (NPV and Standalone Projects)
 - 8.1 (Forecasting Earnings)
 - 8.2 (Determining Free Cash Flows and NPV)
 - 8.3 (Choosing Among Alternatives)
 - 8.4 (Further Adjustments to Free Cash Flow)
- Concepts:
 - Free cash flow
 - Discount rates and cost of capital
 - Discounted cash flow (DCF)
 - Net present value (NPV)
 - Sensitivity analysis
 - Scenario analysis
 - Breakeven analysis
 - Value drivers
 - Profit margins and operating leverage
 - Profitability index
- Case:
 - Callaway Golf FX-1
- Applications:
 - Strategic decision-making
 - Capital budgeting
 - Financial statement analysis
 - Strategic decision making with resource constraints

Topic 4: Return on Investment

- Read:
 - Chapter.Section:
 - 7.2 (The Internal Rate of Return Rule)
 - 7.4 (Choosing Between Projects)
- Concepts:
 - Internal rate of return
 - Hurdle rate

- Case:
 - Should you pay cash for a new car?
- Applications:
 - Amortizing loans
 - Personal finance (auto loans, leases, mortgages)
 - Financial negotiating strategies

Topic 5: Fixed Income Securities

- Read:
 - Chapter.Section:
 - 3.4 (Arbitrage and Law of One Price),
 - 3.5 (No-Arbitrage and Security Prices)
 - 6.1 (Bond Cash Flows, Prices, and Yields)
 - 6.2 (Dynamic Behavior of Bond Prices)
 - 6.3 (The Yield Curve and Bond Arbitrage)
 - 6.4 (Corporate Bonds)
 - 6.5 (Sovereign Bonds)
 - 6.Appendix (Forward Interest Rates)
 - 30.4 (Interest Rate Risk)
- Concepts:
 - Bond markets and institutions
 - Valuing risk-free bonds
 - Bond price-interest rate relation
 - Bond arbitrage
 - Interest rate sensitivity of bonds (Duration)
 - Leverage
 - Forward Rates
- Case
 - Orange County Investment Pool
- Applications:
 - Valuing and investing in treasury securities
 - Managing a bond portfolio
- Further Concepts:
 - Collateralized Debt Obligations (CDOs)
 - Immunization and duration matching
 - Credit Risk

Topic 6: Valuing Stocks

- Read:
 - Chapter.Section:
 - 9.1 (The Dividend Discount Model)
 - 9.2 (Applying the Dividend Discount Model)
 - 9.3 (Total Payout and Free Cash Flow Valuation Models)
 - 9.4 (Valuation Based on Comparable Firms)
- Concepts:

- Measuring returns
- Equity cost of capital
- Dividend yield
- Capital gains
- Dividend discount model
- Cum- and Ex-dividend prices
- Share repurchases
- Price-Earnings (P/E) ratio
- Return on investment
- Enterprise value
- Comparable analysis
- Case
 - Interco
- Applications:
 - Mergers and Acquisitions
 - Corporate defenses

Topic 7: Risk and the Cost of Capital

- Read:
 - Chapter.Section:
 - 10.1 (Risk and Return: Insights from 86 Years of Investor History)
 - 10.2 (Common Measures of Risk and Return)
 - 10.3 (Historical Returns of Stocks and Bonds)
 - 10.4 (The Historical Trade-Off Between Risk and Return)
 - 10.5 (Common Versus Independent Risk)
 - 10.6 (Diversification in Stock Portfolios)
 - 10.7 (Measuring Systematic Risk)
 - 10.8 (Beta and the Cost of Capital)
- Concepts:
 - Bond markets and institutions
 - Expected return
 - Stock volatility
 - Risk-return tradeoff
 - Portfolio risk
 - Diversification
 - Equity market integration
 - Mean-variance frontier
 - Minimum variance portfolios
 - Efficient portfolios
 - Short sales
 - Leverage
 - Sharpe ratio
 - Beta
- Case
 - Partners Healthcare
- Applications:

- Portfolio management
- Of Interest:
 - Portfolio Optimizer and Instructions (on the course website)

Topic 8: CAPM

- Read:
 - Chapter.Section:
 - 11.7 (The Capital Asset Pricing Model)
 - 11.8 (Determining the Risk Premium)
 - 12.1 (The Equity Cost of Capital)
 - 12.2 (The Market Portfolio)
 - 12.3 (Beta Estimation)
 - 12.4 (The Debt Cost of Capital)
 - 12.5 (A Project's Cost of Capital)
 - 12.6 (Project Risk Characteristics and Financing)
- Concepts:
 - Capital market line
 - Security market line
 - Market Beta
 - Market risk
 - Volatility
 - Beta Estimation
 - Alpha
 - Security mispricing
- Case
 - Cost of Capital at Ameritrade
- Applications:
 - Portfolio management
 - Capital budgeting

Topic 9: Corporate Capital Structure

- Read:
 - Chapter.Section:
 - 14.1 (Equity Versus Debt Financing)
 - 14.2 (Modigliani-Miller I: Leverage, Arbitrage, and Firm Value)
 - 14.3 (Modigliani-Miller II: Leverage, Risk, and the Cost of Capital)
 - 14.4 (Capital Structure Fallacies)
 - 14.5 (MM: Beyond the Propositions)
 - 15.1 (The Interest Tax Deduction)
 - 15.2 (Valuing the Interest Tax Shield)
 - 15.3 (Recapitalizing to Capture the Tax Shield)
 - 15.4 (Personal Taxes)
 - 15.5 (Optimal Capital Structure with Taxes)
 - 16.1 (Default and Bankruptcy in a Perfect Market)
 - 16.2 (The Costs of Bankruptcy and Financial Distress)
 - 16.3 (Financial Distress Costs and Firm Value)

- 16.4 (Optimal Capital Structure: The Trade-off Theory)
- Concepts:
 - Leverage
 - Modigliani and Miller Irrelevance Propositions
 - Weighted Average Cost of Capital (WACC)
 - Arbitrage
 - Equity issuance dilution fallacy
 - Earnings per share (EPS) fallacy
 - Market Imperfections
 - Interest Tax Shields
 - Bankruptcy
 - Bankruptcy costs
 - Direct and indirect costs of financial distress
 - Tradeoff theory
 - Valuation with Leverage
- Case
 - Blaine Kitchenware Inc.
- Applications:
 - Industry capital structure
 - Optimal capital structure
 - Refinancing
 - Share Repurchase Programs

Topic 10: Risk Management

- Read:
 - Chapter.Section:
 - 30.1 (Insurance)
 - 30.2 (Commodity Price Risk)
 - 30.3 (Exchange Rate Risk)
 - 30.4 (Interest Rate Risk)
 - 20.1 (Option Basics)
 - 20.2 (Option Payoffs at Expiration)
 - 21.1 (The Binomial Option Pricing Model)
 - 21.2 (The Black-Scholes Option Pricing Model)
- Concepts:
 - Price-fixing contracts
 - Forward
 - Futures
 - Options
 - Covered interest parity
 - Option Premia
 - Basis risk
 - Price-insurance contracts
- Applications:
 - Hedging currency risks via futures and options
 - Value creation via hedging

Course Schedule (Subject to Change)					
Date	Class #	Topic	Readings	Cases	MyFinanceLab Assignment
Tue Aug, 30	1	Introduction; Time Value of Money	3.2; 4.1-4.3, 4.5-4.8, 4. Appendix		
Thu Sep, 1	2	Time Value of Money; Interest Rates	5.1-5.5		
Tue Sep, 6	3	Interest Rates; Capital Budgeting (Free Cash Flows)	2; 3.3 -3.5; 7.1-7.3; 8.1-8.5		HW 1 - Time Value of Money & Interest Rates
Thu Sep, 8	4	Capital Budgeting (Free Cash Flows & Decision Criteria)			
Tue Sep, 13	5	Capital Budgeting (Sensitivity Analysis)			
Thu Sep, 15	6	Return on Investment	7.2, 7.4	Callaway	
Tue Sep, 20	7	Fixed Income Securities - Bond Markets and Valuation	6.1, 6.4, 6.5		
Thu Sep, 22	8	Fixed Income Securities - Duration	6.2, 6. Appendix; 30.4		HW 2 - Capital Budgeting
Tue Sep, 27	9	Fixed Income Securities - Forward Rates; Valuing Stocks	9.1-9.4	Pay Cash for a Car?	
Thu Sep, 29	10	Valuing Stocks			
Tue Oct, 4	11	Valuing Stocks			
Thu Oct, 6		Fall Break			
Tue Oct, 11	12	Review for Midterm		Orange County	HW 3 - Stocks & Bonds
Thu Oct, 13		No Class - Reading Day			
Wed Oct, 19		Midterm - 5:30 PM			
Tue Oct, 25	13	Risk and Cost of Capital	10.1-10.6		
Thu Oct, 27	14	Risk and Cost of Capital	10.7, 10.8		
Tue Nov, 1	15	Risk and Cost of Capital			
Thu Nov, 3	16	CAPM	11.7, 11.8; 12.1-12.4	Partners Healthcare	
Tue Nov, 8	17	CAPM			
Thu Nov, 10	18	Capital Structure	14.1-14.5		HW 4 - Risk and Cost of Capital & CAPM
Tue Nov, 15	19	Capital Structure	15.1-15.5; 16.1-16.4	Ameritrade	
Thu Nov, 17	20	Capital Structure			
Tue Nov, 22		No Class - Thanksgiving			
Tue Nov, 24		No Class - Thanksgiving			
Thu Nov, 29	21	Derivatives and Risk Management - Forwards and Futures	30.1-30.3		
Thu Dec, 1	22	Derivatives and Risk Management - Options	20.1, 20.2	Blaine Kitchenware	HW 5 - Capital Structure
Tue Dec, 6	23	Derivatives and Risk Management - Valuation	21.1, 21.2		
Thu Dec, 8	24	Review			
Wed Dec, 21		Final Exam, 9:00 - 11:00 AM			

To register for FNCE 611 - Corporate Finance - Fall 2016:

1. Go to www.pearsonmylabandmastering.com.
2. Under Register, select **Student**.
3. Confirm you have the information needed, then select **OK! Register now**.
4. Enter your instructor's course ID: **roberts92388**, and **Continue**.
5. Enter your existing Pearson account **username** and **password** to **Sign In**.
You have an account if you have ever used a Pearson MyLab & Mastering product, such as MyMathLab, MyITLab, MySpanishLab, MasteringBiology or MasteringPhysics.
 - If you don't have an account, select **Create** and complete the required fields.
6. Select an access option.
 - Enter the access code that came with your textbook or was purchased separately from the bookstore.
 - Buy access using a credit card or PayPal account.
 - If available, get temporary access by selecting the link near the bottom of the page.
7. From the You're Done! page, select **Go To My Courses**.
8. On the My Courses page, select the course name **FNCE 611 - Corporate Finance - Fall 2016** to start your work.

To sign in later:

1. Go to www.pearsonmylabandmastering.com.
2. Select **Sign In**.
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To upgrade temporary access to full access:

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5. Enter an access code or buy access with a credit card or PayPal account.