



**FIN 600-854 – Corporate Finance I**

**3 credits**

**SYLLABUS**

*Spring 2025*

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Instructor: Michael Ehrlich

Office: MTSM 2014 Leir Research Institute

Classroom: Distance Learning

Email: ehrlich@njit.edu

Class Hours: Virtual

Phone: 973-596-5305

Class Dates: Jan 21 – May 7, 2025

Office Hour: Thurs 2-5pm or by appointment in office or Zoom

<https://njit-edu.zoom.us/my/maehrlich?pwd=WTMwN1UxekoZVk1rSD1laGowZ2JiZz09>

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**Course Overview**

Fin 600 is the traditional first course in corporation finance common to masters programs, focusing on how firm managers make their financing and investing decision to run their business. Topics include the financial statement analysis, time value of money, bond and equity valuation, risk and return, capital budgeting, capital structure, dividends, and so forth. We will consider these topics mainly from the point of view as a manager (insider), and sometimes from the point of view as an investor (outsider) where appropriate.

**Required Course Materials:**

You should have a working knowledge of basic algebra and statistics and feel comfortable doing quantitative exercises. Because this course involves intensive number analysis, you should be familiar with some sort of software, e.g. Microsoft Excel. Some knowledge of accounting, micro and macroeconomics would be helpful.

1. **Textbook:** Ross, Westerfield, Jaffe and Jordan, *Corporate Finance*, 13th Ed., McGraw-Hill Irwin. *Required*. Earlier editions also work but you need to match in two editions.

Textbook Web site: <https://www.mheducation.com/highered/product/corporate-finance-ross-westerfield/M9781260772388.html>

2. **Financial Calculator:** A financial calculator is highly recommended. I recommend the HP 10bII or Texas Instrument BAII Plus financial calculator. If you have

another financial calculator that you are comfortable with, you may use it. It is your own responsibility to learn how to use your calculator.

3. Business news: You are also strongly encouraged to read other economic and financial publications such as New York Times, Wall Street Journal, Financial Times, Business Week, or the Economist

### **Learning Outcomes:**

After taking the course, students are expected to know fundamental business concepts, especially related to corporate finance, and to understand the goal and main functions of firm management. Beyond basic quantitative models, graduate students are expected to be able to apply those models to conduct financial statements analysis and scenario analysis, which helps to solve real business problems. Students are required to conduct fundamental analysis of one selected firm and present to the class as a group. This presentation enhances students' understanding of finance and their ability to communicate, but also develops their critical thinking of complex information.

<b>Competencies</b>	<b>Outcome</b>
<b>LC 1</b> Develop the Ability to Apply Corporate Finance Concepts and the Basic Quantitative Skills to Solve Problems	<b>LO 1.1</b> Our students will demonstrate the knowledge and application of firm fundamentals
	<b>LO 1.2</b> Our students will explore firm problems and classical solutions
	<b>LO 1.3</b> Our students will solve firm problems using quantitative models
<b>LC 2</b> Develop Effective Communication Skills	<b>LO 2.1</b> Our students will execute effective presentations enhanced by technology
	<b>LO 2.2</b> Our students will demonstrate the ability to write clear and concise reports based on relevant information
<b>LC 3</b> Interact Effectively in Teams	<b>LO 3.1</b> Our students will apply and use team building behaviors to accomplish group tasks

### **How to join on Zoom:**

<https://njit-edu.zoom.us/j/maehrlich?pwd=WTMwN1UxekoZVk1rSD1laGowZ2JiZz09>

For technical help contact the NJIT Help Desk:

- **Phone:** 973-596-2900
- **Email:** [ServiceDesk@njit.edu](mailto:ServiceDesk@njit.edu)

Generally, email is the best way to reach me.  
Please put FIN 600-854 in the Subject Line.

### **Course Website: Canvas**

The Canvas site is where most course materials are posted. I will use Canvas to post all course materials including announcements, assignments, quizzes and etc. **So, please be sure to check the site (canvas.njit.edu) frequently. Please contact helpdesk (973-596-2900) for problems associated with Canvas. Important announcement will be released as under Canvas “Announcements”.** There is no excuse for not receiving information via email.

### **Grading Policy**

Final grades will be based on the weights as follows:

<b>Task</b>	<b>Points</b>
Tests	25*2
Project	25
Quizzes	5*4
Participation	5
News presentation (individual) <sup>1</sup>	up to 3
Bloomberg Market Concepts (BMC) <sup>2</sup>	4
<b>Total</b>	<b>107</b>

**Letter grade is based on points.**<sup>3</sup> The scale used for grading is as follows:

<b>Grade</b>	<b>Scores</b>
A	scores $\geq$ 90
B+	$85 \leq$ scores $<$ 90
B	$80 \leq$ scores $<$ 85
C+	$70 \leq$ scores $<$ 80
C	$60 \leq$ scores $<$ 70
F	scores $<$ 60

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<sup>1</sup> Students have the option to present recent news in business (within last 3 months) with length 6-10 minutes. Email me with your recorded (MP4) presentation. There are up to 3 points based on quality of content, presentation slides quality and presenting performance.

<sup>2</sup> Bloomberg Market Concepts (BMC) is an 8-hour, self-paced, e-learning video course consisting of four modules: Economic Indicators, Currencies, Fixed Income and Equities. See details:

<https://researchguides.njit.edu/bloomberg/curriculum>

To get this extra 4 points, you need finish BMC and send me the certificate by May 5, 2025. **Later submission is not credited.**

<sup>3</sup> Letter grade is based on points, rather than percentage on Canvas. That is likely based on equal weights and does not apply to this course. NOTE: Discussion answers are an important part of class participation.

## **Exams**

There will be **three** exams in total. Two higher scores will be recorded, each accounting for 25 points, i.e., the lowest score will be dropped so missing one will not affect your grade.

Exams most likely will be a mixture of multiple-choice questions, quantitative problems, and open-ended questions. One extra-credit question might be asked. If you get it right, your grade will be curved up but never curved down.

Exam 1 will be on **3/11**, Exam 2 will be on **4/22**, and Exam 3 (final exam) will be scheduled on **5/9**. Exam 1 is not cumulative, while Exams 2 and 3 are cumulative. Early exam can be requested and needs my approval (no later ones). If you missed anyone of Exam 1 or Exam 2, there will be no make-up and you will be required to take Exam 3 (final exam) during the final exam week. You can request for an additional exam only if you must miss two exams for serious illness or unexpected emergency. To request, you **must** first get the approval from the Dean of Students and Campus Life at [dos@njit.edu](mailto:dos@njit.edu) for both situations.

All three exams are all open book and via Canvas. Please be aware that Canvas exams are with browser lockdown. **Please pay close attention to Quiz and Exam open/close timing in Canvas.**

## **Project and Presentation**

Project presentation accounts for 25 points of your final grade. More details can be referred to the end of this syllabus. For our online course, each student must make their individual or team (up to five members per team allowed) presentation via a YouTube video (MP4) and upload it to Presentations in Canvas.

## **Homework/Quizzes**

Homework is an integral part of the course, which offers a good opportunity to review what you have learned in the class. You may discuss jointly with your peers on homework assignments. However, I strongly recommend that you try to solve the questions independently. This will be help you to better understand the theories and analytical tools that will be covered on the exams.

In this course, homework assignments are designed as in-class quizzes. Quizzes will be posted and done via the NJIT Canvas under “Assignments”, **due by the end of the class** and due date can be referred to the syllabus (see tentative calendar).

There are four quizzes in total, which accounts for 20 points of your final grade (5 points each). Quizzes offer unlimited attempts with the highest score recorded. **No late/make-up quizzes are allowed.**

### **Attendance and in-class participation**

This course is designed as an asynchronous virtual delivery mode with weekly assignments (see tentative calendar).

Participation is credited. You are encouraged to raise questions, answer questions, share thoughts and discuss topics on Canvas.

Canvas exams and quizzes will take place virtually and will be open for a limited time with time limits per exam/quiz. To request any exception, you *must* first get the approval from the Dean of Students and Campus Life at [dos@njit.edu](mailto:dos@njit.edu)

Presentation of your project will be by a recorded video that you will submit. Each will be an individual or team (up to 5 members) project. To request any exception, you *must* first get the approval from the Dean of Students and Campus Life at [dos@njit.edu](mailto:dos@njit.edu).

### **Email Etiquette**

This is a business course, and the expectation is that you will conform to appropriate business letter writing practice in all your email to me. The following are the basics.

- Put the course name (e.g. FIN 600-854) in the subject line
- Identify the subject of the e-mail with a brief but descriptive summary of the topic: include a proper salutation and the assignment details such as the title, homework, or test.
- Proofread your e-mail for proper sentence structure, capitalization, spelling and punctuation.
- Conclude the e-mail message with a proper closing (e.g. Regards, Sincerely) and your full name.

(Note: Do not e-mail requests for additional grade points unless there is an error in the grading. Grades are not ‘given out’ by the professor; they are ‘earned’ by the student. So, make sure that you ‘earn’ a grade that you can live with.)

Generally, email is the best way to reach me. Please put FIN 600-854 in the Subject Line.

### **Academic Integrity**

Learning is both an individual and a cooperative experience. Asking for and giving help freely in appropriate settings helps you learn. However, you should present only YOUR work as your own. University rules and standards define and prohibit “academic misconduct” by all members of the academic community including students. You are asked and expected to be familiar with these standards and abide by them.

Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at: <http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>.

Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. ***Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university.*** If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at [dos@njit.edu](mailto:dos@njit.edu).

### **Accommodations for Students with Disabilities**

Students with special needs as outlined under the Americans with Disabilities Act should first register with the Counseling Center, 205 Campbell Hall 973 596-3414. Go to the web site <https://www.njit.edu/accessibility/accommodations-and-support-services> for more information. If you wish to have a reasonable accommodation made for you in this class, please discuss the matter with me at the earliest possible time.

### **Tentative Calendar:**

Please note that this is a tentative schedule for our Virtual Asynchronous Distance Learning class. I reserve the right to adjust if necessary and new versions will be announced via Canvas. You are responsible for knowing what is in the latest version. Please pay close attention to Quiz and Exam open/close timing in Canvas.

Date	Day	Schedule	Textbook chapter	Notice	4
1/21/2025	Tu	Syllabus, introduction	1	1/27 last day to drop the class	
1/28/2025	Tu	Financial statement	2, 3		
2/4/2025	Tu	Quiz 1		Quiz1 due on 2/4 11:59pm EST	
2/11/2025	Tu	Discounted cash flow	4		
2/18/2025	Tu	Investment criteria, bond, and equity valuation	5, 8, 9		
2/25/2025	Tu	Quiz 2		Quiz 2 due on 2/25 11:59pm EST	
3/4/2025	Tu	Capital investment, risk analysis and budgeting	6, 7		
3/11/2025	Tu	TEST 1		Chapter 1-5, 8, 9	
3/18/2025	Tu	Spring Break Week			
3/25/2025	Tu	Risk and return	10,11, 12		
4/1/2025	Tu	Capital structure and cost of capital	13, 16	Quizzes 3-4 due on 4/1 11:59pm EST	
4/8/2025	Tu	Quiz 3 & 4			
4/15/2025	Tu	Group projects			
4/22/2025	Tu	TEST 2		Cumulative	
4/29/2025	Tu	Final Exam Review			

**May 9<sup>th</sup>, 2025**

**FINAL EXAM**

**Cumulative**



## **Project and Presentation**

Finance is more than theory and formula. Learning and understanding what is happening in the real business world is also of great importance. As a graduate student, you are expected to conduct fundamental analysis and communicate efficiently with people.

Objective of the project: suppose you are the financial analyst of a given firm, you need to conduct comprehensive analysis and offer the conclusion to your clients whether the firm is worthy to invest or not in the short run (such as next week or next month).

Guidance:

- Group: 3 – 5 members (self-select), individual is also allowed if approved by professor
- Presented by all members on the day of presentation.
- Select one public stock/firm, analyze its performance, compares with its competitors, and predict its future stock price in near future, i.e., predict the closing price on 5/5/2025.
  - Team information and price prediction (for extra points) must be submitted by 4/14/2025. Late information submission will lead to points deduction. Late prediction is NOT allowed.
  - If predicted direction (increase/decrease) is correct, get 1 extra point.
  - If predicted price is close to realized future price (within  $\pm 5\%$ ), get 1 extra point.
- Prepare the presentation (10 - 15 minutes) with visual notes (such as PowerPoint slides, PDF, and so forth)
  - Watch out time control. Shorter than 10 minutes and longer than 15 minutes will lead to points deduction.  $\leq 7$  minutes will be considered as insufficient content and with no more than 20 points (including extra points).
- The presentation likely includes but is not limited to the following information:
  - Group members
  - Selected firm, why you choose the firm, introduction of the firm (industry, business, its current market cap, stock price in the previous 6 months, executive summary, and etc)
  - Financial statement analysis (most recent annual 10-K or quarterly 10-Q report) <https://www.sec.gov/edgar/searchedgar/companysearch.html>Capital budgeting (investment) and capital structure (financing) analysis<sup>4</sup>

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<sup>4</sup> Capital budgeting analysis, for example, you could study the asset part of the balance sheet. In particular, capital expenditures are directly associated with investment decisions. You could get the ratio of capital expenditures over total assets of the firm and compare current one with previous one or compare this firm with its competitors. Other related items can be purchases of property, plant, and equipment (PP&E), R&D expenditures, and Management's Discussion and Analysis.

Capital structure analysis: you could calculate the long-term and short-term financing status (from CH3 ratio analysis) and compare the current one with previous one or compare this firm with its competitors.

- Risk and return analysis in the stock market<sup>5</sup>
  - Industry and market analysis (such as competitors and macro factors)
  - Valuation analysis (what is your predicted price for closing price on 5/5/2025 and how you predict; quantitative prediction model using programming and excel is encouraged such as Python LSTM and Excel DCF)
- Grading will be based on content, visual notes, presentation performance, and timing. Grading will be the same among teammates, assuming equal contribution
  - After the submission of team information and price prediction, no further price prediction changes are allowed.

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<sup>5</sup> Risk and return analysis, for example, you could check the beta (measure of systematic risk), compute holding period return and return standard deviation over the past 6, 12, 36-month return, and also get firm's profitability and analysts' forecast, for example: <https://finance.yahoo.com/quote/AAPL/analysis?p=AAPL>