

**Wisconsin School of Business**  
**Fall session - 2021**  
**Finance 325, Corporation Finance**

**Instructor**

Erwan Quintin, Nathan S. Brand Professor of Finance

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Office hours: Mondays 4-6:30pm (on webex initially, in person once that becomes safe again) and Fridays 8am-10:30am (on webex)

**Teaching Assistant**

Daniel Mandel (MBA, class of 2022) is my Teaching Assistant. His role is to answer any questions you may have about the material and, especially, about the homework assignments. Please use the Piazza module on Canvas for that purpose. Daniel and/or I will get to your questions as quickly as we can, usually very quickly.

Our Piazza class page is set up to have topics: hw 1-10, chapters 1-6, midterm, final, logistics, python, guest speakers, other. This will help you and your classmates keep the information better organized. Feel free to use "other" when unsure. When posting on Piazza, please outline your thought process so we can redirect you as needed. We encourage students to try to answer student questions. We will be monitoring questions and providing answers. Please keep this forum professional.

Questions regarding grading should be addressed to Erwan directly via email at [equintin@bus.wisc.edu](mailto:equintin@bus.wisc.edu).

**Course objective**

This course covers the fundamentals and goals of corporate finance and describes how those fundamentals are applied in practice. This is a hands-on class with a heavy emphasis on quantitative applications.

**Resources**

The main source of material for this course are my notes and my power point slides, all of which you can download from Canvas. No textbook is required.

I will expect you to become proficient with some advanced features of Excel. Online resources in this respect are ubiquitous but feel free to ask me if you want specific recommendations. Please bring your own laptop to class in order to perform all quantitative calculations at the same time as I do. I will post all the calculations we carry out in class to Canvas.

On Canvas you will also find a Python notebook that replicates all our excel calculations, and videos that show you, step by step, how the notebook was built. This is an opportunity for you to learn Python – you should take advantage of it given how valued those skills are in Finance these days. **But that is entirely optional. You will not be tested in any way on the Python parts of the class.**

### **Guest speakers**

The class will feature 3 guest presentations, all by high-ranking Finance executives. These speakers will talk about how corporate finance principles are implemented in practice. Guest presentations will take place on webex at 3pm on Fridays. It is very important and polite to our University's guests that you make every effort to attend those. I will send you webex invitations to each of those presentations.

I will provide the guest speakers' CV or bio ahead of time along with the topics they will be discussing. I will also set a deadline to submit your questions for the guest speakers. Some questions will then be given to the speaker to address as time permits.

### **Grading**

Your numerical course grade is a weighted average of homework score (15%), midterm score (35%), final score (50%). As per Wisconsin School of Business rules, the average GPA for the class will be no higher than 3.3. I will implement this objective roughly as follows:

- A** Top 20-25% of course grades
- AB** 20-25%
- B** 0-30%
- BC** 0-20%
- C** 0-20%
- D/F** 0-5%

Homework problem sets will be assigned more or less on a weekly basis. The problems are meant to make you practice/replicate what I will show you in class. Being ready for my exams means first and foremost understanding the homework fully. You will need to upload your homework in a pdf form to Canvas. You cannot upload any excel file. Your pdf should provide answers to each of my questions and a short explanation of how you reached that answer, and explanation that can include images of partial excel tables. What you turn in should be 4 pages long or less.

I encourage you to work in groups. However, each student must turn in their own write-up of answers. (Given that you will be working in groups I understand and accept that many answers will be identical to one another.)

No late assignment will be accepted, barring a documented emergency or an exception within the University's guidelines.

The midterm will take place on Thursday, November 11th, from 6:00pm to 7:15pm, in Grainger. The final will be on Friday, December 17th from 2:45pm to 4:45pm. Exams are open books and open internet. You are allowed to use any resource you want and you will perform all calculations on your own laptop. The only rule is that you cannot communicate with one another.

Make sure that your laptop is powered up and ready to go. **Under no circumstances will I take computer malfunction into account in my grading. There is no exception.** Backup laptops will be present in the room for each exam as a favor but, again, **under no circumstances will I take computer malfunction into account in my grading.**

### **Academic misconduct**

Academic misconduct of any sort will result in a failing grade, as a minimum consequence.

### **Students who require testing accommodations**

Students who qualify for testing accommodations must schedule an appointment with testing and evaluation services (please go to <https://testing.wisc.edu/>) who will administer the exams and enforce the appropriate time limitations. Exam appointments cannot be made prior to the official start of the exam. All exams must be completed within 24 hours of the official starting time.

## **Course learning outcomes**

Students will:

1. Understand the fundamentals of capital budgeting, capital structure management, and payout policy
2. Be able to describe financial uncertainty and risk using the language of probability theory
3. Calculate the market value of options embedded in the firm and in investment projects

## **COVID protocols**

Please follow all University rules fully and strictly when it comes to respecting the health and safety of those who are in the same classroom as you.

## **Credit hours**

This is a 3-credit class. These are met according to the traditional Carnegie Definition: 3 times 75 minutes of classroom time and a minimum of two hours of out of class student work per hour of class over approximately 8 weeks.

## **List of topics and associated resources**

1. Preliminaries
  - (a) Corporate Finance defined
  - (b) Assets and liabilities: a taxonomy
  - (c) Reading financial statements
  - (d) Valuation primer
  - (e) Fundamentals of capital budgeting
  - (f) Fundamentals of capital structure management
2. Risk and return
  - (a) IRR and YTM

- (b) Debt math
  - (c) Notions of probability
  - (d) Diversification
  - (e) CAPM
  - (f) Factor models
3. Capital budgeting
- (a) Cash flow
  - (b) WACC
  - (c) Capital budgeting credo
  - (d) Detailed case: Investing in a plastic injection plant
  - (e) Build or rent?
4. Capital structure management
- (a) Modigliani-Miller
  - (b) Trade-off theory
  - (c) Other consequences of capital policy
  - (d) The case of mezzanine finance
5. Payout policies
- (a) Dividends vs. buy-backs
  - (b) Dividend dates and types
  - (c) Irrelevance results
  - (d) Optimal payout policy with frictions
6. The value of flexibility
- (a) Optionality and capital budgeting
  - (b) The option to abandon
  - (c) The option to delay refinancing
  - (d) Equity as a call option