Applications in Entrepreneurial Finance: Fintech

Spring 2018
FINC-UB.0062
Section 1: Mon-Wed 2-3:15 pm
Section 2: Mon-Wed 3:30-4:45 pm
Location: KMC 3-60

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TA: TBD

Syllabus – as of 10/15/2017

This course has two objectives: (1) introduce you to the financing lifecycle of high-growth new ventures (i.e. startups); and (2) introduce the key technologies, business models, and companies of the startup fintech landscape.

This class is very applied, and is intended for students who are potentially interested in working at, founding, or investing in early stage startups in the fintech sector. We will roughly follow a successful startup’s path from founding through the stages of new venture finance. These include the “VC method” of valuation, the venture capital industry, and finally how entrepreneurs and investors realize returns. Entrepreneurial finance is all about making decisions in situations of substantial uncertainty, requiring a careful balance of qualitative and quantitative approaches.

At the same time, we will examine the key components of the evolving fintech sector, including new instruments for financing early stage enterprises, such as initial coin offerings and equity crowdfunding. While “financial technology” has been around since King Alyattes of Lydia minted the first coin around 600 BC, fintech today refers to the application of information technology to finance. It has become an important new sector for high-growth startups, receiving at least $14 billion in venture capital in 2015.

In this class, we will consider the following subsectors, where startups are either seeking to displace incumbents or sell them their services: Bitcoin/Ethereum; personal finance; equity crowdfunding; lending; payments; insurance; and remittances. Blockchain, peer-to-peer platforms, and artificial intelligence (e.g. machine learning) are key technologies underlying many of the new business models. Greater weight will be placed on blockchain than on other topics.
We will use a mixture of lectures, guest speakers, and hands-on simulation. The scheduled outside speakers are a mix of entrepreneurs and investors. Please note that scheduling conflicts arise often for these busy individuals. We should expect some of the speakers to reschedule or cancel.

Due to the inherently ambiguous nature of the subject matter, this course will be much less mathematical than most finance courses. Your grade will also depend in substantial part on class participation. If you are uncomfortable with qualitative or non-formulaic approaches to problems, or you prefer never to speak in class, then this course is not for you.

In groups, you will develop a fintech startup business model. You will write a business plan, focusing on financials, in the middle of the semester and pitch the startup to guest judges at the end of the course. You can come up with your own idea, or take on an existing idea from one of our guest speaker companies or any startup you find interesting.

You are responsible for:
   A) Studying lecture materials for in-class quizzes and the midterm.
   B) Identifying thoughts or questions about assigned reading to bring up in class.
   C) Preparing you startup deliverables in your groups.
   D) Attending class.

Readings are short, and generally sourced from newspapers, magazines, or blogs. All quiz and test material will come from lecture notes.

Grading is as follows:
   A) In-class quizzes (10%)
   B) Midterm Exam (30%)
   C) Class participation/attendance (30%)
   D) Startup financial plan and pitch (30%)

Quizzes will be about 15 min each, in-class, and take the place of a final exam. Their material will be cumulative. Your lowest score of the five will be dropped.

Class Rules:
   A) Have a name card.
   B) Keep computers, tablets, and phones out of sight.
   C) No make-up quizzes.

Office hours are Monday, 5-6 pm, and Wednesday, 5-6 pm. You can also schedule a meeting at a different time by emailing me at Sabrina.howell@nyu.edu.
CLASS SCHEDULE

1. Monday, January 22
   a. Topic 1: Introduction
   b. Topic 2: Early stages of equity crowdfunding

2. Wednesday, January 24
   a. Topic: Equity crowdfunding today

3. Monday, January 29
   a. Topic 1: Valuation I, with application to robo-advising

4. Wednesday, January 31
   a. Topic: Investor perspective on valuation

5. Monday, February 5
   a. Topic: Valuation II

6. Wednesday, February 7
   a. Topic: Entrepreneur’s perspective on financing options
   b. Startup project teams and blurbs due

7. Monday, February 12
   a. Topic: Blockchain/bitcoin I

8. Wednesday, February 14
   a. Topic: Mortgages

No Class Monday, February 19

9. Wednesday, February 21
   a. Topic: Blockchain for post-trade settlement

10. Monday, February 26
    a. Topic: Blockchain/bitcoin II
    b. Quiz 1

11. Wednesday, February 28
    a. Topic: Enterprise blockchain

12. Monday, March 5
    a. Topic: VC securities & anti-dilution provisions

13. Wednesday, March 7
    a. Topic: Lending & Insurance
No class March 12-18

14. Monday, March 19
   a. Topic: VC partnerships, fundraising, and distribution/compensation

15. Wednesday, March 21
   a. Topic: Term sheets
   b. Startup project financial plan due

16. Monday, March 26
   a. Topic 1: Term sheets
   b. Topic 2: ICOs

17. Wednesday, March 28
   a. Topic: Seed investor perspective on fintech

18. Monday, April 2
   a. Topic: Valuation Exercises & Midterm Review

19. Wednesday, April 4
   a. Midterm

20. Monday, April 9
   a. Topic: Payments, remittances & financial inclusion

21. Wednesday, April 11
   a. Field trip I

22. Monday, April 16
   a. Topic: IPO process 1

23. Wednesday, April 18
   a. Topic: VC perspective on investing in digital assets and open source blockchain startups

24. Monday, April 23
   a. Topic: IPO process 2

25. Wednesday, April 25
   a. Field trip II

26. Monday, April 30
   a. Topic: Lending

27. Wednesday, May 2
   a. Topic: Startup pitch practice
b. Quiz 2

28. Monday, May 7
   a. Startup pitches at NYU e-lab

FURTHER READING

(Note: I have these in my office – ask me if you’d like to borrow one)