

Date: Sep. 2025

Syllabus - Teaching Program for the Course

Fundamentals of Finance – 2

**Kenneth Mischel**

66-253-80

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| **Course Type:** | Class |
| **Scope of credits:** | 3 |
| **Year of study:** | 2025-2026 |
| **Semester:** | Spring |
| **Day & Time:** | Mon. 2:00p.m.-4:15p.m |
| **Reception Time:** | Upon appointment |
| **Lecturer Email:** | profmischel@gmail.com |
| **Moodle Site:** | \_\_\_ |

**Course description and learning goals**.

**Course Abstract**

This course is intended to help the student learn to think carefully and productively about technological advancements in financial services (“fintech”). It will provide a survey of questions faced, and techniques used, by financial practitioners.

**Learning objectives**

During the course, the student will be introduced to these key fintech technologies: robo advice, fraud detection, marketplace lending & distributed ledger technology.

**Knowledge**

After completing the course, the student will have sufficient understanding of these technologies to be an intelligent user of each.

**Skills**

Upon completing the course, the student will be able to work intelligently as an intern financial institution utilizing fintech.

**Active learning –** **lessons plan:**

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| --- | --- | --- | --- | --- |
| Lesson No. | Topic | Active learning | Required reading | Assessment |
| 1 | What is fintech? | Collaborative learning | Accompanying handout & assigned readings |  |
| 2 | What is fintech? (continued) | Collaborative learning | Accompanying handout & assigned readings |  |
| 3 | How is fintech changing the nature of financial service corporations? | Collaborative learning | Accompanying handout & assigned readings |  |
| 4 | How is fintech changing the nature of financial service corporations? (continued) | Collaborative learning | Accompanying handout & assigned readings |  |
| 5 | The power of big data | Collaborative learning | Accompanying handout & assigned readings |  |
| 6 | Robo advice | Collaborative learning | Accompanying handout & assigned readings |  |
| 7 | Robo advice (continued) | Collaborative learning | Accompanying handout & assigned readings |  |
| 8 | Robo advice (continued) | Collaborative learning | Accompanying handout & assigned readings |  |
| 9 | Distributed ledger technology | Collaborative learning | Accompanying handout & assigned readings |  |
| 10 | Marketplace lending | Collaborative learning | Accompanying handout & assigned readings |  |
| 11 | Fraud detection | Collaborative learning | Accompanying handout & assigned readings |  |
| 12 | The man behind the curtain: supervised training of machine learning | Collaborative learning | Accompanying handout & assigned readings |  |
| 13 | The man behind the curtain: supervised training of machine learning (continued) | Collaborative learning | Accompanying handout & assigned readings |  |
| 14 | The opportunities and dangers of generative AI | Collaborative learning | Accompanying handout & assigned readings |  |

**Final grade**

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| --- | --- |
| Description of the learning product | Weight in the final score |
| Take home examination | 90% of final grade |
| Class participation | 10% of final grade |

**Prerequisites**

This course has no course prerequisites. Students are expected to come to each class prepared

**Bibliography:**

Reading assignments will be given each week, in conjunction with the course handout.