

## **Course Requirements for Digital Finance MBA (Master's Program)**

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**Please check the common graduation requirements.**

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■ **Total Required Credits:** 42 Credits

■ **Common Core Course:** 3 credits

CC511 Probability and Statistics (3)

[Substitute: BIZ500 Management Statistical Analysis (3)]

■ **Major Mandatory Courses:** 21 credits

BAF500 Ethics and Social Responsibility of Finance (1.5)

BAF501 Corporate Finance (3)

BAF502 Financial Accounting (3)

BAF504 Investment Analysis (3)

BAF507 Financial Databases (1.5)

BAF521 Digital Finance Programming (3)

BAF522 Financial Data Analytics (3)

BAF523 Financial Data Mining (1.5)

BAF524 Fintech Startup and New Business Development(1.5)

or BAF525 Digital Finance Case Analysis and Business Model  
Development(1.5)

BAF600 Advanced Corporate Finance (3)

※ The mandatory courses can be waived up to 9 credits with a permission of instructor and with an approval of the chair professor. Students exempted from taking mandatory courses must replace the waived credits with electives.

■ **Elective Courses:** at least 13.5 credits

- Concentration: In order to complete the concentration, at least 9 credits must be completed for each concentration courses. (optional)

A) Concentration in Artificial Intelligence and Data Science

BAF647 Artificial Intelligence and Machine Learning for Financial Engineering (3)

BAF670 Artificial Intelligence and Recommendation System (3)

BAF674 Cloud Computing and Unstructured Data Analysis (3)

BAF675 Financial Big Data Analysis (3)

BAF676 Blockchain Technology and Application Service (3)

B) Concentration in Investment and Asset Management

BAF640 Financial Market Risk Management (1.5)

BAF654 Alternative Investment (1.5)

BAF673 Algorithmic Trading and High Frequency Finance (3)

BAF678 Management of Derivatives and Trading Strategy (3)

BAF679 Quant and Factor Investment Strategy (3)

BAF680 Pension Fund Management Strategy and Performance Evaluation (3)

C) Concentration in Fintech Startup

BAF671 Startup and Law (3)

BAF672 Digital Business Strategy (3)

BAF677 Fintech M&A (3)

[Substitute: BAF608 Mergers and Acquisitions (3)]

BIZ610 Venture Capital (3)

BIZ658 High-Tech Marketing Strategies (3)

■ **Research Courses: at least 4.5 credits**

BAF961 Field Application Project Research (3)

BAF968 Global Finance Field Research (1.5)

■ **Transitional Measures**

- This curriculum applies to students from the year 2023 and after.
- Students who have entered before 2022 apply to this curriculum upon receiving approval from the chair professor.