**Master of Science in Financial Technology(“MS\_FinTech”)**

**Course Design and Requirements for Credits**

To meet the requirements of graduation, students need to get at least 37 credits in total during their study period. According to the requirements, students should get no less than 7 credits for gene ral courses, no less than 16 credits for compulsory specialized courses, no less than 10 credits for optional specialized courses and no less than 4 credits for social practice.

**Curriculum** （subject to mild changes）

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| **1. General Courses（No less than 7 Credits）** |
| **Contemporary Chinese Economy****(Overview of China)** | 3 Credits |  | 1st Semester |
| (This course introduces China’s major issues of economy, including institutional environment, fiscal policy, industrial policy, market environment and microcosmic characteristics.) |
| **Chinese Language Study** | 4 Credits |  | 1st Semester |
| **2. Compulsory Specialized Courses（No less than 16 Credits）** |
| **Financial Market Analysis** | 3 Credits |  | 2ndSemester |
| (This course introduces the function, operating mechanism and operating environment of finance, market analysis tools and reports writing, the formation and change of market price.) |
| **Financial Theory and Policy** | 3 Credits |  | 1st Semester |
| (This course introduces the main theory of finance and conducts comparative analysis toward the regulating tools of currency, interest rate and exchange rate, then expand the thinking of these problems through class discussions.) |
| **Investments** | 3 Credits |  | 1st Semester |
| (This course mainly introduces the operation of securities market, portfolio theory, capital asset pricing model and measurement of portfolio performance.)  |
| **Corporate Finance** | 3 Credits |  | 2ndSemester |
| (This course introduces the possible influence of taxation, financial distress cost and agency cost on the choice of corporate capital structure and corporate financial policies such as dividend, M&A and corporate governance.) |
| **China’s Fiscal Policy and Tax System** | 3 Credits |  | 1st Semester |
| This course introduces China’s major issues of economy , including institutional environment , fiscal policy , industrial policy , tax policy and market environment. |
| **Academic Standards and Thesis Writing** | 1 Credits |  | 3rd Semester |
| (This course helps students get familiar with the framework, process and academic standard of thesis writing and prepare for graduation thesis writing and conducting academic research.) |
| **3. Optional Specialized Courses（No less than 10 credits）** |
| **Introduction to Financial Technology** | 2 Credits |  | 3rd Semester |
| (This course introduces the high-intermediate level knowledge of financial technology, including the profound theories of big data, cloud computing, block-chain, AI and discusses the leading edge issue regarding the application of financial technology in risk management and regulation.) |
| **Derivatives Securities** | 2 Credits |  | 2ndSemester |
| (This courses introduces techniques for analyzing and valuing risk assets at different levels, structure and operation of financial derivatives markets, pricing of derivatives securities and their application in risk management and speculation.) |
| **The application of big data in finance**  | 2 Credits |  | 2ndSemester |
| (This course introduces the basic knowledge, generation mechanism and data characteristics of big data and focuses on its application in financial industry.) |
| **Artificial Intelligence and Its Applications** **in Finance** | 2 Credits |  | 3rd Semester |
| **(**This course introduces the basic theory, forms and applied techniques of AI and its application in financial practices**.)** |
| **Digital Currency and Blockchain Finance** | 2 Credits |  | 2ndSemester |
| **(**This course introduces the basic theory, forms and applied techniques of block-chain and its application in financial practices**.)** |
| **Overview of China’s Financial System**   | 2 Credits  |  | 2ndSemester |
| (This course introduces China’s financial system, monetary policies, financial regulatory framework, etc.) |
| **Lectures on China’s Financial Markets**   | 2 Credits |  | 3rd Semester |
| (This course introduces the developing history, current status and future trends of China’s financial markets.) |
| **Lectures on China’s Banking Industry**  | 2 Credits |  | 3rd Semester |
| (This course introduces the developing history, current status and future trends of China’s banking industry.) |
| **Lectures on the Belt and Road Initiative**  | 2 Credits  |  | 2ndSemester |
| (This course introduces the political, economical and cultural knowledge related to the Belt and Road Initiative.) |
| **International Finance** | 2 Credits  |  | 2ndSemester |
| (This course will cover the core concepts and theories of modern international finance.) |
| **Lectures on the Chinese Culture and Arts**   | 2 Credits  |  | 3rd Semester |
| (This course introduces the development, main modes and current status of Chinese culture and arts.) |
| 1. **Internship（No less than 4 Credits）**
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| Internship | 4 Credits |  | 3rd Semester |