**金融学专业（数理金融学方向）2015版本科培养方案**

**Undergraduate Education Plan for Specialty in Finance**

**(Oriented in Mathematical Finance) (2015)**

|  |  |  |  |
| --- | --- | --- | --- |
| 专业名称 | **金融学** | 主干学科 | **经济学** |
| Major | Finance | Major Disciplines | Economics |
| 计划学制 | **四年** | 授予学位 | **经济学学士** |
| Duration | 4 Years | Degree Granted | Bachelor of Economics |

**最低毕业学分规定**

**Graduation Credit Criteria**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 课程类Course Classification  课程性质  Course Nature | 通识课程  Public Basic Courses | 学科大类课程  Basic Disciplinary Courses | 专业课程  Specialized Courses | 个性课程  Personalized Course | 集中性实践  Practice Courses | 课外学分  Study Credit after Class | 总学分  Total  Credits |
| 必修课  Required Courses | 35 | 55.5 | 48.5 | \ | 22.5 | \ | 190 |
| 选修课  Elective Courses | 9 | \ | 9.5 | \ | \ | 10 |

1. **培养目标与毕业要求**

**Ⅰ Educational Objectives &Requirement**

1. **培养目标**

为适应我国经济发展需要，培养金融学复合型高级专门人才，主要目标如下：

1. 培养具有扎实的数学基础、经济与金融基础，进行计量分析的能力；
2. 精通金融分析，金融工具设计、金融模型构建与金融风险管理；
3. 具有运用数理、计算机和金融工具解决金融问题的能力；
4. 具有良好的口头和书面沟通技能、组织和团队合作能力；
5. 胜任职业要求和终身学习的能力的高级专业人才。

To meet the needs of China’s Modernization and the development of contemporary economics education, the specialty of Finance educate interdisciplinary talents in the field of Finance. The main educational objectives include:

1. Be familiar with mathematic basis, financial and economical basis and econometrical analysis.
2. Be familiar with financial analysis, financial instruments designing, financial model establishing and financial risk management plan
3. Possessing ability to apply mathematics, computer and financial tools to solve financial problems
4. Be good at oral and written presentation. Possess good communication abilities, teamwork and cooperation spirit
5. Advanced specialty talent who is qualified with professional requirement and pursue study for a life-long time
6. **业务培养要求**
7. 掌握现代经济学、金融学的基本理论，了解金融学科理论前沿及发展动态；
8. 具有处理银行、证券、投资、保险、现代公司金融等方面实际业务的基本技能；
9. 掌握数学分析方法及其在经济金融领域的应用，具有数理运用及分析能力；
10. 掌握数学软件、统计软件的应用与编程方法，了解计算机和信息技术在经济金融领域的应用；
11. 掌握通识知识，了解人类在自然科学、艺术、人文科学和其他社会科学方面取得的成就；
12. 善于发现问题，能进行创造性思考，具备一定的研究能力；
13. 具备良好的中、英文口语表达和书面写作技能，包括金融专业写作所需的技能；
14. 具有良好的团队协作精神，具备一定的社会工作的组织能力；
15. 具有良好的职业道德，有强烈的社会责任感；
16. 具备从事相关职业工作的基本素养;
17. 具有较强的自主学习能力，为终生学习奠定基础;
18. 为攻读研究生和出国学习深造奠定扎实的专业基础

Graduation Requirements:

1. To master modern economic and financial basic theory. To master financial discipline theory leading issues and developing trends
2. To possess basic techniques dealing with practical business such as banking, security, investment, insurance and modern financial corporation
3. To be familiar with mathematical methods and their applying in finance and economics, to be good at mathematical and econometrical analysis.
4. To master mathematical and statistical software, programming language and their applying in finance and economics.
5. To master basic disciplinary courses and understand the achievement in natural science, art, the humanities and other social science
6. Be good at developing problems and creative thinking. Possessing ability to research economic and financial problems
7. Be good at oral and written presentation in both Chinese and English including written techniques in Finance
8. Possessing good teamwork and cooperation spirit. Possessing ability to organize in social work
9. Possessing good professional moral and strong social responsibility
10. Possessing basic quality specialized in relevant professional work
11. Possessing ability to study himself and providing foundation for a life-long time
12. Providing solid and special foundation to pursue further study and go abroad

附：培养目标实现矩阵

Educational Objectives Realizing Matrix

| Objectives  Requirements | 培养目标1 | 培养目标2 | 培养目标3 | 培养目标4 | 培养目标5 |
| --- | --- | --- | --- | --- | --- |
| 毕业要求1 | √ | √ | √ |  |  |
| 毕业要求2 | √ | √ | √ |  |  |
| 毕业要求3 | √ | √ |  |  |  |
| 毕业要求4 | √ | √ |  |  |  |
| 毕业要求5 |  | √ | √ |  |  |
| 毕业要求6 |  |  | √ |  |  |
| 毕业要求7 |  |  |  | √ |  |
| 毕业要求8 |  |  |  | √ |  |
| 毕业要求9 |  |  |  | √ |  |
| 毕业要求10 |  |  |  | √ | √ |
| 毕业要求11 |  |  |  |  | √ |
| 毕业要求12 | √ | √ | √ | √ | √ |

1. **专业核心课程与专业特色课程**

**II Core Courses and Characteristic Courses**

1. **专业核心课程：**

货币银行学、国际金融学、数学分析、高等代数、空间解析几何、概率论、数理统计、随机过程、实变函数、运筹学、多元统计分析、中级微观经济学、中级宏观经济学、数理金融学、时间序列分析、商业银行经营与管理、证券投资学、国际金融管理、保险精算学。

Core Courses：Money and Banking, International Finance, Mathematical Analysis, Advanced Algebra、Space Analytic Geometry, Probability, Mathematical Statistics, Stochastic Processes, Functions of A Real Variable, Operational Research, Multivariate Statistical Analysis, Intermediate Microeconomics, Intermediate Macroeconomics, Mathematical Finance, Time Series Analysis, Commercial Bank Management, Investment, International Financial Management，Insurance Actuarial Theory.

**专业特色课程：**

数理统计、随机过程、多元统计分析、保险精算学、公司金融学、国际金融管理、数理金融学、数学模型、数据挖掘。

Characteristic Courses: Mathematical Statistics, Stochastic Processes, Multivariate Statistical Analysis, Insurance Actuarial Theory, Corporate Finance, International Financial Management，Mathematical Finance, Mathematical Modeling, Data Mining.

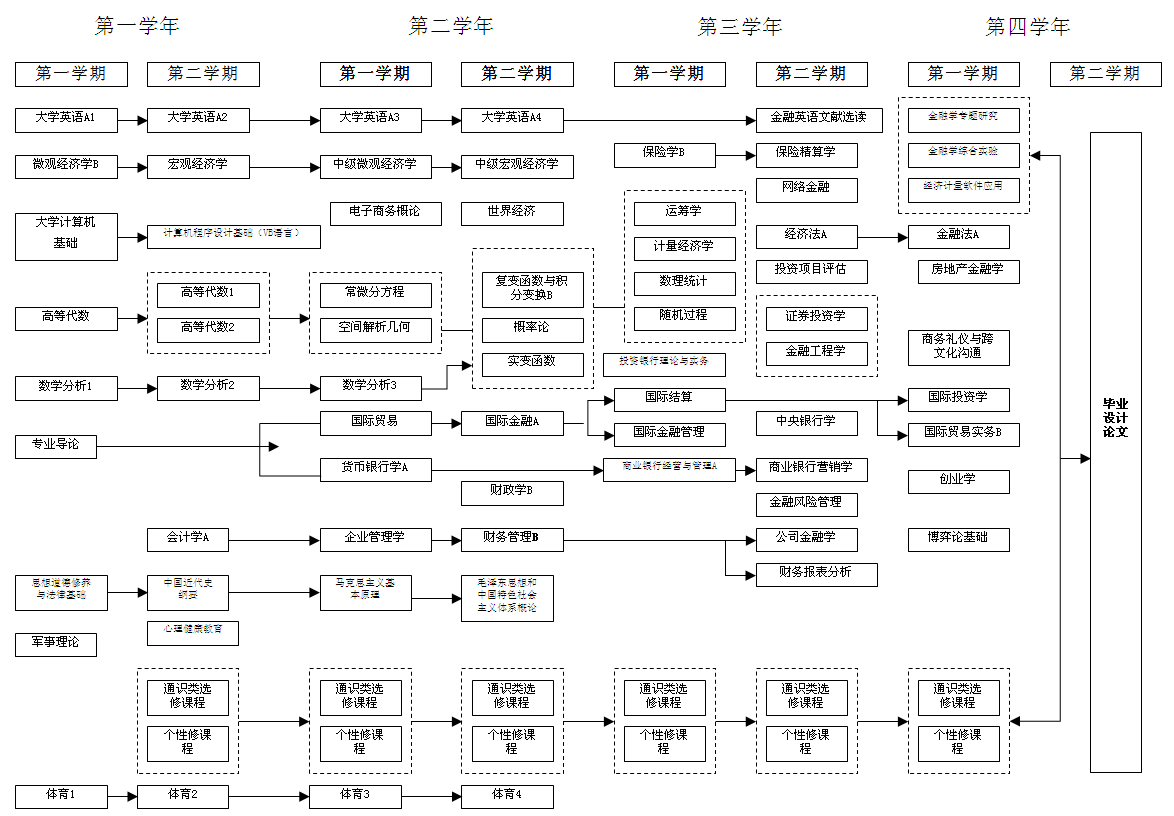
附：毕业要求实现矩阵：

Requirements Realizing Matrix

| **专业核心课程** | **专业特色课程** | **课程名称** | **金融学专业（数理金融方向）毕业要求** | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| （1） | （2） | （3） | （4） | （5） | （6） | （7） | （8） | （9） | （10） | （11） | （12） |
|  |  | 思想道德修养与法律基础  Morals, Ethics and Fundamentals of Law |  |  |  |  |  | 🗸 |  |  | 🗸 |  |  |  |
|  |  | 中国近现代史纲要  Outline of Contemporary and Modern Chinese History |  |  |  |  |  | 🗸 |  |  |  |  |  |  |
|  |  | 毛泽东思想和中国特色社会主义理论体系概论Introduction to Mao Zedong Thought and Socialism with Chinese Characteristics |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  |
|  |  | 马克思主义基本原理  Marxism Philosophy |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  |
|  |  | 军事理论  Military Theory |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 心理健康教育  Mental Health Education |  |  |  |  |  |  |  |  | 🗸 |  |  |  |
|  |  | 体育1  Physical EducationⅠ |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 体育2  Physical Education Ⅱ |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 体育3  Physical Education Ⅲ |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 体育4  Physical Education Ⅳ |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 大学英语A1  College English A 1 |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |
|  |  | 大学英语A2  College English A Ⅱ |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |
|  |  | 大学英语A3  College English A Ⅲ |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |
|  |  | 大学英语A4  College English A Ⅳ |  |  |  |  |  | 🗸 | 🗸 |  |  |  |  |  |
|  |  | 大学计算机基础  Foundation of Computer |  |  |  | 🗸 |  | 🗸 |  |  |  | 🗸 |  |  |
|  |  | 计算机程序设计基础(VB语言)  Fundamentals ofComputer Program Design(VB Language) |  |  |  | 🗸 |  | 🗸 |  |  |  | 🗸 |  |  |
|  |  | 创新创业类  Innovation and Entrepreneurship Courses |  |  |  |  |  | 🗸 |  | 🗸 | 🗸 |  |  |  |
|  |  | 人文社科类  Arts and Social Science Courses |  |  |  |  | 🗸 | 🗸 |  |  | 🗸 |  |  |  |
|  |  | 经济管理类  Economy and Management Courses |  |  |  |  | 🗸 | 🗸 |  |  | 🗸 |  |  | 🗸 |
|  |  | 科学技术类  Science and Technology Courses |  |  |  |  | 🗸 | 🗸 |  |  | 🗸 |  |  |  |
|  |  | 艺术体育类  Art and Physical Education Courses |  |  |  |  | 🗸 |  |  |  | 🗸 |  |  |  |
|  |  | 专业导论  Introduction to Specialty | 🗸 |  |  |  | 🗸 | 🗸 |  |  |  |  |  | 🗸 |
|  |  | 微观经济学B  Microeconomics A | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 数学分析1  Mathematical AnalysisⅠ |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 数学分析2  Mathematical AnalysisⅡ |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 数学分析3  Mathematical AnalysisⅢ |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 高等代数1  Higher AlgebraⅠ |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 高等代数2  Higher AlgebraⅡ |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 空间解析几何  Space Analytic Geometry |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 政治经济学  Political Economics | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 宏观经济学  Macroeconomics | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 会计学A  Accounting A |  | 🗸 |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 货币银行学A  Money and Banking A | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 中级微观经济学  Intermediate Microeconomics | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 国际金融A  International Finance A | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 计量经济学  Econometrics |  | 🗸 | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 中级宏观经济学  Intermediate Macroeconomics | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 常微分方程  Ordinary Differential Equation |  |  | 🗸 |  | 🗸 | 🗸 |  |  |  |  |  | 🗸 |
| 🗸 |  | 实变函数  Functions of A Real Variable |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 概率论  Probability |  |  | 🗸 |  | 🗸 | 🗸 |  |  |  |  |  | 🗸 |
|  |  | 复变函数与积分变换B  ComplexFunction andIntegralTransform B |  |  | 🗸 |  | 🗸 | 🗸 |  |  |  |  |  | 🗸 |
| 🗸 |  | 运筹学  Operational Research |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 | 🗸 | 数理统计  Mathematical Statistics |  |  | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 | 🗸 | 随机过程  Applied Stochastic Processes |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 商业银行经营与管理A  Commercial Bank Management B | 🗸 | 🗸 |  |  | 🗸 | 🗸 |  |  |  |  |  | 🗸 |
| 🗸 |  | 证券投资学  Securities Investment | 🗸 | 🗸 |  |  | 🗸 | 🗸 |  |  |  |  |  | 🗸 |
| 🗸 | 🗸 | 国际金融管理  International Financial Management | 🗸 | 🗸 |  |  | 🗸 | 🗸 |  |  |  |  |  | 🗸 |
|  | 🗸 | 公司金融学  Corporate Finance | 🗸 | 🗸 |  |  | 🗸 | 🗸 |  |  |  |  |  | 🗸 |
| 🗸 | 🗸 | 多元统计分析  Multivariate Statistical Analysis |  |  | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 |  | 时间序列分析  Time Series Analysis |  |  | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 | 🗸 | 数理金融学  Mathematical Finance |  |  | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 金融工程学  Financial Engineering | 🗸 | 🗸 |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
| 🗸 | 🗸 | 保险精算学  Insurance Actuarial Theory | 🗸 | 🗸 |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 财务管理B  Financial Management B | 🗸 | 🗸 |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  | 🗸 | 数学模型A  Mathematical Modeling A |  |  | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 数值分析A  Numerical Analysis A |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 保险学B  Insurance B | 🗸 | 🗸 |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 偏微分方程  Partial Differential Equation |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 国际贸易  International Trade | 🗸 | 🗸 |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 企业管理学  Enterprise Management A | 🗸 | 🗸 |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 非参数统计  NonparametricStatistics |  |  | 🗸 |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 实用回归分析  Applied Regression Analysis |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 贝叶斯统计分析  Bayesian Statistical Analysis |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
|  | 🗸 | 数据挖掘 A  Data Mining A |  |  | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 财务报表分析  Financial Statement Analysis |  | 🗸 |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 风险理论  Venture Theory | 🗸 |  |  |  | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 经济计量软件应用  Application of EconometricsSoftware |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 小波分析  Wavelet Analysis |  |  |  | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 博弈论基础  Foundation of Game Theory | 🗸 |  | 🗸 | 🗸 | 🗸 |  |  |  |  |  |  | 🗸 |
|  |  | 军事训练  Military Training |  |  |  |  |  |  |  | 🗸 | 🗸 | 🗸 |  |  |
|  |  | 学年论文  Senior Essay | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 |  | 🗸 | 🗸 | 🗸 |
|  |  | 专业实习  Practical Training in Major | 🗸 |  |  | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 |  | 🗸 | 🗸 | 🗸 |
|  |  | 毕业实习  Practical Training for Graduation | 🗸 |  |  | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 |  | 🗸 | 🗸 | 🗸 |
|  |  | 毕业论文  Graduation Thesis | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 | 🗸 |  | 🗸 | 🗸 | 🗸 |

1. **课程教学进程图**

**Ⅲ Teaching Process Map**



1. **论教学建议进程表**

**Ⅳ Theory Course Schedule**

| 课程  类别  Course Classifi-  cation | 课程  性质  Course Nature | 课程编号  Course Number | 课 程 名 称  Course Title | 学分Crs | 学时分配 Including | | | | | 建议修读学期  Suggested Term | 先修课程  Prerequisite Course | 第二专业  Second Major |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 总学时  Tot hrs. | 实验  Exp. | 上机  Ope-  ration | 实践  Prac-  tice | 课外  Extra-  cur |
| 通 识 课 程 Public Basic Courses  General Education Elective  Coures | 必 修 课 Required Courses | 4220001110 | 思想道德修养与法律基础  Morals, Ethics and Fundamentals of Law | 3 | 48 |  |  | 8 |  | **Error! Reference source not found.**1-6 |  |  |
| 4220002110 | 中国近现代史纲要  Outline of Contemporary and Modern Chinese History | 2 | 32 |  |  |  |  | 1-6 |  |  |
| 4220003110 | 毛泽东思想和中国特色社会主义理论体系概论 Introduction to Mao Zedong Thought and Socialism with Chinese Characteristics | 4 | 96 |  |  | 32 |  | 1-6 |  |  |
| 4220005110 | 马克思主义基本原理  Marxism Philosophy | 3 | 48 |  |  | 8 |  | 1-6 |  |  |
| 1060003130 | 军事理论  Military Theory | 1 | 32 |  |  | 16 |  | 3 |  |  |
| 1050001130 | 心理健康教育  Mental Health Education | 1 | 16 |  |  |  |  | 2 |  |  |
| 4210001110 | 体育1  Physical EducationⅠ | 1 | 32 |  |  |  |  | 1 |  |  |
| 4210002110 | 体育2  Physical Education Ⅱ | 1 | 32 |  |  |  |  | 2 | 体育1 |  |
| 4210003110 | 体育3  Physical Education Ⅲ | 1 | 32 |  |  |  |  | 3 | 体育2 |  |
| 4210004110 | 体育4  Physical Education Ⅳ | 1 | 32 |  |  |  |  | 4 | 体育3 |  |
| 4030002110 | 大学英语A1  College English A 1 | 3 | 64 |  |  |  | 16 | 1 |  |  |
| 4030003110 | 大学英语A2  College English A Ⅱ | 3 | 64 |  |  |  | 16 | 2 | 大学英语A1 |  |
| 4030004110 | 大学英语A3  College English A Ⅲ | 3 | 64 |  |  |  | 16 | 3 | 大学英语A2 |  |
| 4030005110 | 大学英语A4  College English A Ⅳ | 3 | 64 |  |  |  | 16 | 4 | 大学英语A3 |  |
| 4120017110 | 大学计算机基础  Foundation of Computer | 2 | 32 |  | 12 |  |  | 1 |  |  |
| 4120025110 | 计算机程序设计基础(VB语言)  Fundamentals of Computer Program Design(VB) | 3 | 48 |  | 12 |  |  | 2 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 小 计 Subtotal | | 35 | 736 |  | 24 | 64 | 64 |  |  |  |
| 选 修 课  Elective Courses | 创新创业类  Innovation and Entrepreneurship Courses | | 全校学生要求至少取得9个学分，且必须选修艺术体育类课程中的艺术类相关课程，取得至少2个学分。理工科专业学生至少选修一门人文社科类或经济管理类课程，其他专业学生至少选修一门科学技术类课程。  All students are required to obtain at least 9 credits, and must select art courses from *Art and Physical Education Courses* toobtain at least 2 credits*.* Science and engineering students should select at least one course from *Arts and Social Science Courses* or *Economy and Management Courses*, and other students should select at least one course from *Science and Technology Courses*. | | | | | | | | |
| 人文社科类  Arts and Social Science Courses | |
| 经济管理类  Economy and Management Courses | |
| 科学技术类  Science and Technology Courses | |
| 艺术体育类  Art and Physical Education Courses | |
| 学 科 大 类 课 程 Basic Disciplinary Courses | 必 修 课 Required Courses | 4010127110 | 专业导论  Introduction to Specialty | 1 | 16 |  |  |  |  | 1 |  |  |
| 4010094110 | 微观经济学 B  Microeconomics B | 3.5 | 56 |  |  |  |  | 1 |  |  |
| 4050175110 | 数学分析1  Mathematical AnalysisⅠ | 5 | 80 |  |  |  |  | 1 |  |  |
| 4050176110 | 数学分析2  Mathematical AnalysisⅡ | 6 | 96 |  |  |  |  | 2 | 数学分析1 |  |
| 4050177110 | 数学分析3  Mathematical AnalysisⅢ | 5 | 80 |  |  |  |  | 3 | 数学分析2 |  |
| 4050355120 | 高等代数1  Higher AlgebraⅠ | 5 | 80 |  |  |  |  | 1 |  |  |
| 4050358120 | 高等代数2  Higher AlgebraⅡ | 2.5 | 40 |  |  |  |  | 2 | 高等代数1 |  |
| 4050359120 | 空间解析几何  Space Analytic Geometry  Space analytic geometry | 2.5 | 40 |  |  |  |  | 2 | 高等代数1 |  |
| 4010100110 | 政治经济学  Political Economics | 2.5 | 40 |  |  |  |  | 2 |  |  |
| 4010052110 | 宏观经济学  Macroeconomics | 3.5 | 56 |  |  |  |  | 2 |  |  |
| 4170064110 | 会计学A  Accounting A | 3 | 48 |  |  |  |  | 2 |  |  |
| 4010054110 | 货币银行学A  Money and Banking A | 3 | 48 |  |  |  |  | 3 |  |  |
| 4010105110 | 中级微观经济学  Intermediate Microeconomics | 3 | 48 |  |  |  |  | 3 | 微观经济学 B |  |
| 4010033110 | 国际金融A  International Finance A | 3 | 48 |  |  |  |  | 4 |  |  |
| 4010056110 | 计量经济学  Econometrics | 3.5 | 56 | 8 |  |  |  | 6 |  |  |
| 4010186130 | 中级宏观经济学  Intermediate Macroeconomics | 3.5 | 56 |  |  |  |  | 4 | 宏观经济学 |  |
| 小 计 Subtotal | | 55.5 | 888 | 8 |  |  |  |  |  |  |
| 专 业 课 程 Specialized Courses | 必 修 课 Required Courses | 4050019110 | 常微分方程  Ordinary Differential Equation | 3 | 48 |  |  |  |  | 3 | 数学分析2 |  |
| 4050406120 | 实变函数  Functions of A Real Variable | 2.5 | 40 |  |  |  |  | 3 |  |  |
| 4050473130 | 概率论  Probability | 4 | 64 |  |  |  |  | 4 | 数学分析2 |  |
| 4050052110 | 复变函数与积分变换B  Complex Function and Integral Transform B | 3 | 48 |  |  |  |  | 4 | 数学分析2 |  |
| 4170171110 | 运筹学  Operational Research | 3 | 48 |  |  |  |  | 3 |  |  |
| 4050482130 | 数理统计  Mathematical Statistics | 4 | 64 |  |  |  |  | 5 | 概率论 |  |
| 4050187110 | 随机过程  Applied Stochastic Processes | 4 | 64 |  |  |  |  | 5 | 概率论 |  |
| 4010085110 | 商业银行经营与管理 B  Commercial Bank Management B | 2.5 | 40 | 4 |  |  |  | 5 |  |  |
| 4010099110 | 证券投资学  Securities Investment | 2.5 | 40 | 6 |  |  |  | 5 |  |  |
| 4010035110 | 国际金融管理  International Financial Management | 2.5 | 40 |  |  |  |  | 5 |  |  |
| 4010029110 | 公司金融学  Corporate Finance | 2.5 | 40 | 4 |  |  |  | 6 |  |  |
| 4050372120 | 多元统计分析  Multivariate Statistical Analysis | 3.5 | 56 |  | 8 |  |  | 6 | 数理统计 |  |
| 4050405120 | 时间序列分析  Time Series Analysis | 3.5 | 56 |  | 8 |  |  | 6 | 数理统计 |  |
| 4050173110 | 数理金融学  Mathematical Finance | 3 | 48 |  |  |  |  | 6 | 随机过程 |  |
| 4010062110 | 金融工程学  Financial Engineering | 2.5 | 40 | 6 |  |  |  | 6 |  |  |
| 4010140110 | 保险精算学  Insurance Actuarial Theory | 2.5 | 40 |  |  |  |  | 7 |  |  |
| 小 计 Subtotal | | 48.5 | 776 | 20 | 16 |  |  |  |  |  |
| 选 修 课 Elective Courses | 4050178110 | 数学模型A  Mathematical Modeling A | 3.5 | 56 |  | 8 |  |  | 4 |  |  |
| 4050184110 | 数值分析A  Numerical Analysis A | 4 | 64 |  | 8 |  |  | 4 | 常微分方程 |  |
| 4010003110 | 保险学B  Insurance B | 2.5 | 40 |  |  |  |  | 5 |  |  |
| 4050142110 | 偏微分方程  Partial Differential Equation | 2 | 32 |  |  |  |  | 5 | 常微分方程 |  |
| 4010037110 | 国际贸易  International Trade | 3 | 48 |  |  |  |  | 5 |  |  |
| 4170094110 | 企业管理学  Enterprise Management A | 3 | 48 |  |  |  |  | 5 |  |  |
| 4170014110 | 财务管理B  Financial Management B | 2 | 32 |  |  |  |  | 6 |  |  |
| 4050038110 | 非参数统计  Nonparametric Statistics | 3 | 48 |  |  |  |  | 6 | 数理统计 |  |
| 4050407120 | 实用回归分析  Applied Regression Analysis | 3 | 48 |  | 8 |  |  | 6 | 数理统计 |  |
| 4050009110 | 贝叶斯统计分析  Bayesian Statistical Analysis | 3 | 48 |  |  |  |  | 6 | 数理统计 |  |
| 4050169110 | 数据挖掘 A  Data Mining A | 3 | 48 |  |  |  |  | 6 |  |  |
| 4010166130 | 财务报表分析  Financial Statement Analysis | 2 | 32 |  |  |  |  | 7 |  |  |
| 4050050110 | 风险理论  Venture Theory | 2.5 | 40 |  |  |  |  | 7 |  |  |
| 4010247120 | 经济计量软件应用  Application of Econometrics Software | 2 | 32 | 12 |  |  |  | 7 | 计量经济学 |  |
| 4050497130 | 小波分析  Wavelet Analysis | 3 | 48 |  |  |  |  | 7 |  |  |
| 4010004110 | 博弈论基础  Foundation of Game Theory | 2.5 | 40 |  |  |  |  | 7 |  |  |
| 小 计 Subtotal | | 44 | 704 | 12 | 24 |  |  |  |  |  |
| 修读说明：要求至少选修9.5学分。  NOTE：Minimum subtotal credits: 9.5 | | | | | | | | | | |

1. **集中性实践教学环节**

**Ⅴ Practice Schedule**

| 课程编号  Course Number | 实践环节名称  Practice Courses Name | 周数  Weeks | 学分  Crs | 建议修读学期  Suggested Term |
| --- | --- | --- | --- | --- |
| 1060002110 | 军事训练  Military Training | 3 | 1.5 | 1 |
| 4010189130 | 学年论文（上机60学时）  Senior Essay | 4 | 4 | 5(分散) |
| 4010125110 | 专业实习  Practical Training in Major | 4 | 4 | 6 |
| 4010115110 | 毕业实习  Practical Training for Graduation | 5 | 5 | 8 |
| 4010157120 | 毕业论文（上机120学时）  Graduation Thesis | 12 | 8 | 8 |
| 小 计 Subtotal | | 28 | 22.5 |  |

1. **修读指导**

**Ⅵ Recommendations on Course Studies**

《形势与政策》课程，平均每学期16学时，一般按专题进行，在第七学期末考核，计 2个课外学分，具体由学校学生发展指导中心负责组织落实。

Situation & Policy, a 16 hours/term with 2 credits course, is taught according to topics and tested at the end of the 7th term . The course will be arranged by the University Students’ Affairs’ Department in each school.

学院教学责任人：杜伟岸

专业培养方案责任人：周毓萍