

统 计 学

一、培养目标

本专业培养学生具有较扎实的数学理论基础，牢固地掌握数理统计基本理论和方法，掌握统计学的基本方法以及经济、管理学基础，能熟练运用计算机技术和统计学原理分析数据，发现和解决社会、经济、生产等实际领域的统计问题，能在统计及金融机构（含银行、证券、保险、信托等机构）、工商企业、政府部门从事统计调查、数据分析、风险管理以及其他领域管理工作的复合型、应用型专门人才。

二、基本规格要求

本专业学生要求具备以下核心能力：宏观经济分析能力；统计信息采集、处理与分析能力；应用统计软件编程能力；计划决策及管理能力；数据建模与预测能力；科学研究的数理能力；健康全面的人文素养。

三、培养特色

扎实的数理统计学理论功底，良好的数学基础和统计学基础知识，能熟练使用各种统计软件包，具有系统、创新思维和研究创新能力。

四、学制、毕业基本要求及学位授予

1. 本科基本学制 4 年，弹性学习年限 3—6 年，按照学分管理制度管理。
2. 统计学专业学生毕业最低学分数为 160 学分，其中各类别课程及环节要求学分数如下表：

课程类别	通识必修	学门核心	学类核心	专业核心	专业选修	通识选修	集中实践	合计
学分数	27	32	27	24	21	8	21	160

3. 学生修满培养方案规定的必修课、选修课及有关环节，达到规定的最低毕业学分数，并修完规定必修但不记学分的所有课程和环节，德、智、体合格，即可毕业。满足学位授予相关文件要求的，授予理学学士学位。

五、课程设置及学分分布

（一）通识教育课程 [必修 27 + (6) 学分 + 选修 8 学分]

通识教育课程包括必修和选修两部分。通识选修课程按《湖南大学通识选修（文化素质教育）课程方案》实施，通识必修课程如下：

编码	课程名称	学分	备注
GE01101	毛泽东思想和中国特色社会主义理论体系概论	3+ (3)	
GE01039	思想道德修养与法律基础	1.5+ (1.5)	
GE01100	形势与政策	0.5+ (1.5)	
GE01102	中国近现代史纲要	2	

续表

编码	课程名称	学分	备注
GE01103	马克思主义基本原理 (上)	2	
GE01104	马克思主义基本原理 (下)	2	
GE01012 (-15)	大学英语	8	
GE01088	计算机基本能力测试	0.5	
GE01105	计算机导论与程序设计	2.5	
GE01107 (-13)	心理素质与生涯发展	1	
GE01089 (-92)	体育	4	

(二) 学门核心课程 (32 学分)

学门核心课程 (32 学分)

编码	课程名称	学分	备注
GE03035 (-37)	数学分析 B (1、2、3)	15	
GE03030	高等代数 B	6	
BA04043	常微分方程 A	3	
GE03039	微观经济学	4	
GE03040	宏观经济学	4	

(三) 学类核心课程 (27 学分)

学类核心课程 (27 学分)

编码	课程名称	学分	备注
ST03003	概率论	4	
ST04006	统计学	4	
ST04008	数理统计	3	
ST05002	抽样技术	3	
FI04009	非参数统计	3	
ST05003	多元统计分析	3	
ST05006	时间序列分析	3	
FI04007	计量经济学	4	

(四) 专业核心课程 (24 学分)

专业核心课程 (24 学分)

编码	课程名称	学分	备注
ST05004	随机过程	3	
ST05008	统计预测与决策	3	
FI05031	数据挖掘技术	3	
FI05020	运筹学	3	
ST05007	质量管理统计学	3	
FI05029	金融投资统计分析	3	
FI05025	博弈论	3	
ST05005	国民经济统计学	3	

(五) 专业选修课程 (21 学分)

专业选修课程 (21 学分)

编码	课程名称	学分	备注
ET04009	基础会计学	3	限选
FI04002	金融学	4	限选
ST06002	统计软件应用	3	
ST06005	市场调查与分析	3	
FI04005	国际金融学	3	
FI06046	信用评估学	2	
FI06023	金融工程学	3	
FI06045	信托与租赁	2	
FI06028	金融市场营销学	2	
FI06044	投资银行学	3	
FI06038	商业银行业务模拟	1	
FI06062	Excel 金融建模	2	
FI04003	保险学原理	3	
FI06012	个人理财	2	
FI05005	保险精算学 (寿险 I)	3	
FI06068	保险营销学	2	
FI06063	保险公司财务管理	2	
FI06039	社会保障学	2	
FI04013	管理学	3	
FI06022	金融法律与法规	2	
FI06075	经济论文写作	1	
FI06081	统计学的未来 (专业导论课)	1	
FI06080	统计学科前沿 (高级研讨课)	1	

注：鼓励学生自主选修本专业或跨专业任选课程，学分不少于应选学分的 5%。

(六) 集中实践 (21 学分)

集中实践 (21)

编码	课程名称	学分	备注
GE01040	军事训练 (含军事理论课程)	0	
GE09002	仿真平台与工具应用实践	2	
GE09028	英文应用写作训练	1	
GE09030	中文写作实训	1	
GE09024	工程认识实习	1	
FI10033	社会实践与社会调查	1	
FI10034	统计专业仿真实验 1	1	
FI10035	统计专业仿真实验 2	1	
FI10036	统计专业仿真实验 3	1	
FI10026	毕业实习	2	
FI10025	毕业论文 (导师指导课)	10	

注：鼓励学生积极参与课外创新实践活动，学生在大学期间获得国家级、省级、校级 SIT 立项并结项，获得国家级、省级、校级大学生挑战杯奖项，参加中国金融教育发展基金会组织的大学生暑期社会调查大赛，学术论文发表，参与老师课题项目，参加其他形式的社会实践或社会调查并提交报告等，记《社会实践与社会调查》1 学分。

六、课程责任教师一览表

序号	姓名	职称	学历学位	专业特长	课程 (专业核心、专业选修、通识选修)
1	胡宗义	教授	博士	经济计量分析、数理金融	概率论、数理统计学
2	蔡晓春	教授	博士	经济计量分析	数理统计学、计量经济学
3	周四军	教授	博士	预测与决策方法	统计学、统计预测与决策
4	杨招军	教授	博士	经济计量分析、金融工程	时间序列分析、博弈论
5	张强	教授	博士	金融监管、金融理论	金融学、金融监管学
6	杨胜刚	教授	博士	国际金融、征信管理	国际金融学、金融学说史
7	龙海明	教授	博士	经济项目评估、银行会计	技术经济与项目评估、商业银行管理学, 公司金融
8	乔海曙	教授	博士	货币金融、金融租赁	金融学、信托与租赁
9	姚小义	教授	博士	国际金融、金融市场管理	国际金融学、国际投资学、外汇交易理论与实务
10	曾昭法	副教授	学士	抽样技术、投资管理	统计学、金融投资统计分析
11	张立军	副教授	博士	应用统计与综合评价方法	统计学、抽样技术、国民经济统计学
12	王瑛	副教授	硕士	市场调查与商务统计	统计学、市场调查与分析
13	任英华	副教授	博士	多元统计分析	统计学、多元统计分析
14	胡荣才	副教授	博士	经济数学与计量经济学	统计学、计量经济学
15	陈黎明	副教授	博士	应用统计与社会调查	统计学、宏观经济统计分析
16	刘再华	副教授	学士	博弈论与运筹学	博弈论、运筹学
17	谭德俊	副教授	博士	数理统计与数理金融	数理统计学、计量经济学
18	倪青山	副教授	硕士	国民经济学	国民经济统计学、宏观经济统计分析
19	张虹	副教授	研究生/ 硕士	保险	保险学、财产与责任保险、再保险原理与实务
20	钟林超	副教授	硕士	银行会计	商业银行管理学、银行会计学、金融法律与法规
21	刘甲求	讲师	博士	金融投资统计分析	统计学、金融投资统计分析
22	谭朵朵	讲师	硕士	数理金融	统计学、非参数统计、应用回归分析
23	马守荣	讲师	硕士	数理统计	统计学、质量管理统计、时间序列分析
24	肖百龙	讲师	博士	数理统计	数理统计学、非参数统计、随机过程
25	孔志周	讲师	博士	数据挖掘与统计软件	数据挖掘技术、统计软件应用
26	李海奇	讲师	博士	计量经济学	计量经济学, 时间序列分析
27	张飞鹏	讲师	博士	计量经济学	统计计算, 时间序列分析
28	苑迪	讲师	博士	计量经济学	计量经济学, 统计软件应用
29	喻旭兰	副教授	博士	金融理论、国际区域金融合作	金融学、金融学说史、房地产金融与投资
30	易传和	副教授	硕士	财务管理、审计	公司金融、金融机构内部审计、银行会计学、技术经济与项目评估、商业银行财务管理
31	周再清	副教授	博士	个人理财、银行会计	个人理财、银行会计学、商业银行管理学、商业银行业务模拟、商业银行财务管理

续表

序号	姓名	职称	学历学位	专业特长	课程（专业核心、专业选修、通识选修）
32	王天轶	讲师	博士	金融市场理论、金融工具投资分析	金融市场学
33	王于栋	讲师	博士	金融理论、房地产金融与投资	金融学、信托与租赁、房地产金融与投资
34	陈珂	讲师	博士	金融学、金融专业英语	金融学、金融专业英语、国际金融函电

七、专业责任教授

序号	姓名	职称	学历学位	专业特长	承担授课课程
1	蔡晓春	教授	博士	经济计量分析	数理统计学、计量经济学

Statistics

I . Objectives

The objective of this undergraduate program is to enable students to develop a profound knowledge of mathematics, mathematic statistics, statistics, management, computer skills, to find and solve the statistic issues of society, economics and production. Graduates are prepared for diverse career paths such as competent managers and researchers in association with statistic investigation, data analysis, risk management and other business management in statistic and financial institutions (banks, securities companies, insurance companies and trust companies etc.), business enterprises and government sectors.

II . Basic Requirements

Students are required to develop the following core capacities: macroeconomic analysis, information collection, processing and analysis, statistic software application, strategy decisions making and management, data modeling and forecasting, scientific research, as well as fairly good humanity accomplishment.

III . Characteristics

Students will be equipped with solid foundations in mathematical statistics, basic knowledge of mathematic and statistic, statistic software application, creative thinking and innovation ability.

IV . Program Structure, Graduation Regulations and Admission to the Degree

1. The standard duration of the program is 4-year with flexible 3—6 academic years to complete the curriculum.

2. The program comprises a minimum of 160 credits as following:

Course Category	Required General Courses	Disciplinary Core Courses	Domain Core Courses	Professional Core Courses	Disciplinary Electives	General Electives	Intensive Practice	Total
Credit	27	32	27	24	21	8	21	160

3. To be eligible for admission to the degree of Bachelor of Science, students have to satisfy all the requirements of the curriculum and any additional required curriculum which has no credit in accordance with the degree granting related documents.

V . The Curriculum and Credit Distribution

1. General Education Courses [required 27 + (6) + elective 8 credits]

The general education courses consist of required courses and elective courses. General education electives are designed according to the *Curriculum Design of General Education Electives of Hunan University*. Required general education courses are illustrated in the following table.

Code	Course Title	Credit(s)	Remarks
GE01101	Introduction to Maoism and Theoretical System of Socialism with Chinese Characteristics	3+ (3)	
GE01039	Moral Cultivation and Law Basics	1.5+ (1.5)	
GE01100	Current Situation and Policies	0.5+ (1.5)	
GE01102	Outline of Modern Chinese History	2	
GE01103	Fundamentals of Marxism I	2	
GE01104	Fundamentals of Marxism II	2	
GE01012(-15)	College English	8	
GE01088	Computer Proficiency Test	0.5	
GE01105	Introduction to Computer Science and Programming	2.5	
GE01107(-13)	Psychological Health & Career Planning	1	
GE01089(-92)	Physical Education	4	

2. Disciplinary Core Courses (32 credits)

Disciplinary Core Courses (32credits)

Code	Course Title	Credit(s)	Remarks
GE03035(-37)	Mathematical Analysis B (I , II , III)	15	
GE03030	Advanced Algebra B	6	
BA04043	Ordinary Differential Equation A	3	
GE03039	Microeconomics	4	
GE03040	Macroeconomics	4	

3. Domain Core Courses (27 credits)

Domain Core Courses (27 credits)

Code	Course Title	Credit(s)	Remarks
ST03003	Probability Theory	4	
ST04006	Statistics	4	
ST04008	Mathematical Statistics	3	
ST05002	Sampling Techniques	3	
FI04009	Nonparametric Statistics	3	
ST05003	Multivariate Statistical Analysis	3	
ST05006	Time Series Analysis	3	
FI04007	Econometrics	4	

4. Professional Core Courses (24 credits)

Professional Core Courses (24 credits)

Code	Course Title	Credit(s)	Remarks
ST05004	Stochastic Process	3	
ST05008	Statistical Forecasting and Decision Making	3	
FI05031	Data Mining	3	
FI05020	Operations	3	
ST05007	Quality Management Statistics	3	
FI05029	Statistic Analysis of Financial Investment Statistics	3	
FI05025	Game Theory	3	
ST05005	National Economic Statistics	3	

5. Disciplinary Electives (21 credits)

Disciplinary Electives (21 credits)

Code	Course Title	Credit(s)	Remarks
ET04009	Basic Accounting	3	Limited Selection
FI04002	Finance	4	Limited Selection
ST06002	Statistic Software Application	3	
ST06005	Market Investigation and Analysis	3	
FI04005	International Finance	3	
FI06046	Credit Evaluation	2	
FI06023	Finance Engineering	3	
FI06045	Trust and Lease	2	
FI06028	Financial Market	2	
FI06044	Investment Bank	3	
FI06038	Simulation of Commercial Bank Business	1	
FI06062	Excel Finance Modeling	2	
FI04003	Insurance Theory	3	
FI06012	Personal Financial Planning	2	
FI05005	Actuarial Science (Life Insurance I)	3	
FI06068	Insurance Marketing	2	
FI06063	Insurance Company Financial Management	2	
FI06039	Social Security	2	
FI04013	Management	3	
FI06022	Economic Laws and Regulations	2	
FI06075	Economic Papers Writing	1	
FI06081	Statistics in the Future (Professional Introductory Course)	1	
FI06080	The Forefront of Statistical Science (Senior Seminar)	1	

Note: Students are encouraged to sign up for elective courses within and across their majors, with the credit hours no less than 50% of the total required credit hours.

6. Intensive Practice (21 credits)

Intensive Practice (21 credits)

Code	Course Title	Credit(s)	Remarks
GE01040	Military Training	0	
GE09002	Simulation Platform and Practice Application	2	
GE09028	English Writing	1	
GE09030	Chinese Writing	1	
GE09024	Engineering Practice	1	
FI10033	Social Surveys	1	
FI10034	Simulation Experiment I	1	
FI10035	Simulation Experiment II	1	
FI10036	Simulation Experiment III	1	
FI10026	Graduation Practice	2	
FI10025	Dissertation	10	

Note: To encourage students to actively participate in extracurricular activities, students get 1 credit for any of the following activities; the approval and completion of a national, or provincial or university SIT project, winning an award of the national or provincial "Challenge Cup", participating the College Summer Social Survey Competition organized by Chinese Financial Education Development Fund, getting a paper published, participating a teacher's project, participating a social practice or investigation and submitting a report.

VI. Faculties

No.	Name	Academic Title	Educational Background	Research Areas	Courses (Disciplinary Core Courses, Disciplinary Electives, General Electives)
1	Hu Zongyi	Professor	Ph. D	Econometric Analysis, Mathematical Analysis	Probability Theory, Probability Theory and Mathematical Statistics
2	Cai Xiaochun	Professor	Ph. D	Econometric Analysis	Mathematical Statistics, Econometrics
3	Zhou Sijun	Professor	Ph. D	Forecasting and Policy-making Method	Statistics, Economic Prediction and Policy-making
4	Yang Zhaojun	Professor	Ph. D	Econometric Analysis, Financial Engineering	Time Series Analysis, Economic Game Theory
5	Zhang Qiang	Professor	Ph. D	Financial Regulation, Finance Theory	Finance, Financial Regulation
6	Yang Shenggang	Professor	Ph. D	International Finance, Credit Management	International Finance, The History of Finance
7	Long Haiming	Professor	Ph. D	Economic Project Evaluation, Bank Accounting	Technical Economics and Project Evaluation, Commercial Bank Management, Corporate Finance
8	Qiao Haishu	Professor	Ph. D	Monetary Finance, Financial Leasing	Finance, Trust and Leasing
9	Yao Xiaoyi	Professor	Ph. D	International Finance, Financial Market Management	International Finance, Science of Investing, Theory and Practice of Foreign Exchange Transactions
10	Zeng Zhaofa	Associate Professor	Bachelor	Sampling Technique, Investment Management	Statistics, Statistical Analysis of Financial Investment
11	Zhang Lijun	Associate Professor	Ph. D	Applied Statistics and Comprehensive Evaluation Method	Statistics, Sampling Technique, National Economic Statistics
12	Wang Ying	Associate Professor	M. S.	Market Research and Business Statistics	Statistics, Market Research and Analysis
13	Ren Yinghua	Associate Professor	Ph. D	Multivariate Statistical Analysis	Statistics, Multivariate Statistical Analysis
14	Hu Rongcai	Associate Professor	Ph. D	Economic Mathematics and Econometrics	Statistics, Econometrics
15	Chen Liming	Associate Professor	M. S.	Applied Statistics and Social Investigation	Statistics, Statistical Analysis for Macroeconomics

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No.	Name	Academic Title	Educational Background	Research Areas	Courses (Disciplinary Core Courses, Disciplinary Electives, General Electives)
16	Liu Zaihua	Associate Professor	Bachelor	Operational Research	Economic Game Theory, Operational Research
17	Tan Dejun	Associate Professor	Ph. D	Mathematical Statistics and Mathematical Analysis	Mathematical Statistics, Econometrics
18	Ni Qingshan	Associate Professor	M. S.	National Economics	National Economics, National Economic Statistics, Statistical Analysis for Macroeconomics
19	Zhang Hong	Associate Professor	M. S.	Insurance	Insurance, Property and Liability Insurance, Principles and Practices of Reinsurance
20	Zhong Linchao	Associate Professor	M. S.	Bank Accounting	Commercial Bank Management, Bank Accounting, Financial Laws and Regulations
21	Liu Jiaqiu	Lecturer	Ph. D	Statistical Analysis of Financial Investment	Statistics, Statistical Analysis of Financial Investment
22	Tan Duoduo	Lecturer	M. S.	Mathematical Analysis	Statistics, Nonparametric Statistics, Random Process
23	Ma Shourong	Lecturer	M. S.	Mathematical Statistics	Statistics, Quality Management Statistics, Time Series Analysis
24	Xiao Bailong	Lecturer	Ph. D	Mathematical Statistics	Mathematical Statistics, Nonparametric Statistics, Random Process
25	Kong Zhizhou	Lecturer	M. S.	Data Mining and Statistical Software	Data Mining Technology, Statistical Software Application
26	Li Haiqi	Lecturer	Ph. D	Economics	Econometrics
27	Zhang Feipeng	Lecturer	Ph. D	Economics	Statistics, Time Series
28	Yuan Di	Assistant Professor	Ph. D	Economics	Econometrics, Statistics Software
29	Yu Xulan	Associate Professor	Ph. D	Finance Theory, International and Regional Financial cooperation	Finance, The History of Finance, Real Estate Investment and Finance
30	Yi Chuanhe	Associate Professor	M. S.	Financial Management, Audit	Corporate Finance, Internal Audit in Financial Institutions, Bank Accounting, Technical Economics and Project Evaluation, Financial Management of Commercial Bank

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No.	Name	Academic Title	Educational Background	Research Areas	Courses (Disciplinary Core Courses, Disciplinary Electives, General Electives)
31	Zhou Zaiqing	Associate Professor	Ph. D	Personal Financial Planning, Bank Accounting	Personal Financial Planning; Bank Accounting, Commercial Bank Management, Commercial Banking Simulation, Financial Management of Commercial Bank
32	Wang Tianyi	Lecturer	Ph. D	Financial Market Theory, Financial Instruments and Investment Analysis	Financial Market
33	Wang Yudong	Lecturer	Ph. D	Finance Theory, Real Estate Finance and Investment	Finance, Trust and Leasing, Real Estate Finance and Investment
34	Chen Ke	Lecturer	Ph. D	Finance, Financial English	Finance, Financial English, International Finance Correspondence

VII. Responsible Professor

No.	Name	Academic Title	Educational Background	Research Areas	Courses (Disciplinary Core Courses, Disciplinary Electives, General Electives)
1	Cai Xiaochun	Professor	Ph. D	Econometric Analysis	Mathematical Statistics, Econometrics

(翻译人:苑迪)