

## Statistics Course List

### I. School Package for the School of Science and Engineering

Course Code	Course Title (English)	Course Title (Chinese)	Unit(s)
BIO2001	General Biology	普通生物	3
CHM1001	General Chemistry	普通化學	3
CSC1001	Introduction to Computer Science: Programming Methodology	計算機科學導論：程序設計方法	3
CSC1002	Computational Laboratory	計算機實驗	1
Option A*	MAT1001	Calculus I	微積分（一）
	MAT1002	Calculus II	微積分（二）
Option B*	MAT1003	Mathematical Analysis I	數學分析（一）
	MAT1004	Mathematical Analysis II	數學分析（二）
MAT2040	Linear Algebra	線性代數	3
PHY1001	Mechanics	力學	3
STA2001	Probability and Statistics I	概率及統計（一）	3

\*Students must complete either Option A or Option B.

### II. Major Required Courses

Course Code	Course Title (English)	Course Title (Chinese)	Unit(s)
ACT2111	Introductory Financial Accounting	財務會計導論	3
ECO2011	Basic Microeconomics	微觀經濟學基礎	3
ECO2031	Applied Econometrics for Business Analysis	商業分析中的應用計量經濟學	3
ECO3121	Introductory Econometrics	計量經濟學導論	3
ERG2050	Introduction to Data Analytics	數據分析導論	3
ERG3010	Data and Knowledge Management	數據與知識管理	3
ERG3020	Web Analytics and Intelligence	網絡分析與智能	3
STA2002	Probability and Statistics II	概率及統計（二）	3
STA3007	Nonparametric Statistics	非參數統計	3
STA3010	Regression Analysis	迴歸分析	3
STA3020	Statistical Inference	統計推斷	3
STA3050	Statistical Software	統計軟件	2
STA4001	Stochastic Processes	隨機過程	3
STA4002	Multivariate Techniques with Business Applications	多元技術及其商業應用	3

STA4003	Time Series	時間序列	3
STA4020	Statistical Modelling in Financial Markets	金融市場的統計建模	3
STA4030	Categorical Data Analysis	範疇性數據分析	3
CSC4005	Distributed and Parallel Computing	分佈式及並行式計算	3
CSC4008	Techniques for Data Mining	數據挖掘技術	3
FIN2010	Financial Management	財務管理	3
FIN3080	Investment Analysis and Portfolio Management	投資分析與投資組合管理	3

### III. Major Elective Courses

Course Code	Course Title (English)	Course Title (Chinese)	Unit(s)
ACT4253	Legal Environment, Business Ethics and CSR in China	中國法律環境、商業道德與企業社會責任	3
BME4005	Bioinformatics	生物信息學	3
BGE4010	Into-the-Future: Science, Technology, Humanities and Business	展望：科技、人文與商業	3
MAT3007	Optimization	最優化	3
STA3006	Design and Analysis of Experiments	實驗設計與分析	3
STA3007	Nonparametric Statistics	非參數統計	3
STA3010	Regression Analysis	迴歸分析	3
STA3030	Survey Sampling	調查抽樣	3
STA4001	Stochastic Processes	隨機過程	3
STA4003	Time Series	時間序列	3
STA4005	Survival Modelling	生存數據模型	3
STA4007	Statistical Quality Control	統計品質控制	3
STA4010	Selected Topics in Statistics I	統計學專題（一）	3
<b>STA4011*</b>	<b>Selected Topics in Statistics II</b>	<b>統計學專題（二）</b>	<b>3</b>
STA4020	Statistical Modelling in Financial Markets	金融市場的統計建模	3
CSC4005	Distributed and Parallel Computing	分佈式及並行式計算	3
CSC4008	Techniques for Data Mining	數據挖掘技術	3
CSC4020	Fundamentals of Machine Learning	機器學習之基礎課程	3
EIE3050	Principles of Communication Systems	通信系統原理	3
ECO2011	Basic Microeconomics	微觀經濟學基礎	3
ECO2021	Basic Macroeconomics	宏觀經濟學基礎	3

ECO3011	Intermediate Microeconomic Theory	中級微觀經濟學	3
ECO3410	Economics of Money and Financial Institutions	貨幣與金融機構經濟學	3
ERG2050	Introduction to Data Analytics	數據分析導論	3
ERG3010	Data and Knowledge Management	數據與知識管理	3
ERG3020	Web Analytics and Intelligence	網絡分析與智能	3
IEG3050	Principles of Communication Systems	通信系統原理	3
FIN2010	Financial Management	財務管理	3
FIN4060	Financial Markets in China and the World	中國與世界的金融市場	3
MKT2010	Marketing Management	市場管理	3
RMS4001	Simulation Methods for Risk Management and Finance	金融及風險管理模擬方法	3
RMS4050	Stochastic Calculus for Finance and Risk	金融與風險之隨機微積分	3
RMS4060	Risk Management with Derivatives	風險管理及衍生工具	3

\*Approval pending