Curriculum in Department of Mathematics and Statistics

Grade	1st Semester		2nd Semester	
	Course Name	Credits	Course Name	Credits
1	Freshmen Seminar A	1	Freshmen Seminar B	1
	Western Philosophy : Issue and Discussion	3	Writing and Presentation for Problem-solving	3
	College English	2	The Universe, Nature and Mankid	1
	Basics of Software and Coding	3	Application of Advanced Programming Language	3
	Calculus 1	3	Calculus 2	3
	Statistics 1	3	Statistics 2	3
2	Linear Algebra 1	3	Artificial intelligence and Big Data.	3
	Introduction to Mathematical Analysis 1	3	Probability Theory	3
	Computational Mathematics 1	3	Linear Algebra 2	3
	Statistical Computing and Exercise	3	Introduction to Mathematical Analysis 2	3
	Introduction to Combinatorics	3	Differential Equation	3
			Programming Exercise	3
			Computational Mathematics 2	3
3	Modern Algebra 1	3	Mathematical Statistics 2	3
	Regression Analysis 1	3	Experimental Design	3
	Stochastic Processes	3	Regression Analysis 2	3
	Mathematical Statistics 1	3	Introduction to Nonparametric Statistics	3
	Introduction to Machine Learning	3	Introduction to Deep Learning	3
	Numberical Analysis	3	Modern Algebra 2	3
	Sampling Survey	3	Number Theory	3
			Complex Analysis	3
			Introduction to Differential Geometry	3
4	Independent Study and Career Skills 1	1	Independent Study and Career Skills 2	1
	Multivariate Analysis	3	Statistical Data Analysis	3
	Categorical Data Analysis	3	Bayesian Analysis	3
	Actuarial Mathematics	3	Time series Data Analysis	3
	Topology 1	3	History of Mathematics	3
	Seminar in Applied Statistics 1	3	Seminar in Applied Statistics 2	3

Graduation requirements	
Major required subject	24 credits
Major elective	45 credits
Credits in total	130

Completion Type
a compulsory liberal arts course
a basic liberal arts course
a compulsory major
elective major