

(Academic Year: 113)

College of Management

Fu Jen Catholic University

Course Catalog

(2024-25 Entry)



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BBA in Statistics and Information Science

● Course list

Course Plan	Course Title	Course ID Last 5 digits	Terms / Credits		Course label type
			Fall	Spring	
Major requirements	Statistics	02222	3	3	
	Calculus	02390	3	3	
	Economics	02457	3	3	
	Accounting	02412	3	3	
	Introduction to Business	05201		3	
	Introduction to Programming	24495	3		
	Mathematical Statistics	02743	3	3	
	Linear Algebra	02766	2	2	
	Programming Techniques	03056	3		
	Advanced Programming Techniques	14761		3	EMI
	Application of Statistics Package	10931	2		
	Management Information Systems	02631		3	EMI
	Database Administration	02490	3		
	Survey Sampling	01634	3		EMI
	Regression Analysis	01987	3		WEB
	Design of Experiment and Analysis	11218	3		
	Data Mining	11502	3		EMI
	Independent Study I	07344		3	
	Independent Study II	07699	3		
	Professional Ethics-Business Ethics	08824	2		
Elective credits	The Theory of Interest	04791	3		
	Marketing Management	01483		3	
	Biostatistics	05352	3		
	Advanced Courses in Biostatistics	17028		3	
	Inference Statistics	06424	3		
	Electronic Commerce	09514		3	EMI

Course Plan	Course Title	Course ID Last 5 digits	Terms / Credits		Course label type
			Fall	Spring	
	Multivariate Statistical Analysis	01445	3		EMI
	Data Exploration and Information Visualization	24327		3	
	Intelligent Decision Analysis System Implementation	33288	3		
	Big Data Industry and Education Project Implementation	34517	1		
	Big Data Industry and Education Project Implementation	34518		2	
	Discrete Data Analysis	09887	3		
	Medical Statistics	05358		3	
	Big Data Analytics in healthcare	35765		3	EMI
	Quality Control	01771	3		
	Time Series Analysis	01943		3	EMI
	Organizational Leadership and Social Innovation Practices	19663		2	
	Organizational Learning and Social Inquiry	19664	2		
	Data Structures	02492	3		

MS in Applied Statistics

● Course list

Course Plan	Course Title	Course ID Last 5 digits	Terms / Credits		Course label type
			Fall	Spring	
Required credits of the program	Applied Mathematical Statistics	06825			
	Thesis	00041	3	3	
	Sampling Method with Application	21378		3	
Elective credits of the program	Special Topics in Big Data I	24132	1		
	Special Topics in Big Data II	24133		1	
	Statistic Analysis Software	04322	1		
	Data Mining and Text Mining	32491	3		
	Marketing and Market Survey	32522		3	
	Cloud Computing and Statistical Learning	19163	3		
	Database Foundations for Business Analytics	36605		3	EMI
	The Application of Regression Methods	22133		3	WEB
	Intelligent Decision Analysis System Implementation	33288	3		
	Advanced Courses in Biostatistics	17028		3	
	Research Methodology	01799		3	
	Business Ethics	00292		2	
	Internship	02144		3	
	Financial Big Data	24108		3	
	The Concept and Application of Machine Learning Algorithm Optimization Methods	34968		3	
	Customer Relationship Management	10985		3	
	Categorical Data Analysis	24683		3	
	Deep Learning	31358	3		EMI
	Statistical Analysis of Clinical Medicine and Drug Development	22898	3		
	Web and Social Media Analytics	31415		3	
	Quality Control and Design	07331	3		

Course Plan	Course Title	Course ID Last 5 digits	Terms / Credits		Course label type
			Fall	Spring	
	Business Analysis Capstone	32521	3		

MS in Applied Statistics (E/W)

● Course list

Course Plan	Course Title	Course ID Last 5 digits	Terms / Credits		Course label type
			Fall	Spring	
Required credits of the program	Thesis	00041	3	3	
	Integration management	12486	3		
	Research Methodology and Seminar	24514		3	
Elective credits of the program	Special Topics in Big Data I	24132	1		
	Special Topics in Big Data II	24133		1	
	Data Mining and Text Mining	32491	3		
	Database and Data Management	20879		3	
	Statistics with R and Python	32129	2		
	Applied Multivariate Statistical Analysis	05947	2		
	The Application of Regression Methods	22133		3	WEB
	Quality Control	01771	3		
	Customer Relationship Management	10985		3	
	Case Study in Applied Statistics	20886		3	
	Marketing and Market Survey	32522		3	
	The Concept and Application of Machine Learning Algorithm Optimization Methods	34968		3	
	Categorical Data Analysis	24683		3	
	Business Analysis Capstone	32521	3		
	Statistical Analysis of Clinical Medicine and Drug Development	22898	3		
	Deep Learning	31358	3		EMI