Course		Credits	Hours	1st year				2nd year				3rd year				4th year			
				Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring	
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
Core Required Courses	Chinese Literature：Appreciation and Creative Writing	4	4	2		2													
	Practical English 1-2	0	4	1	1	1	1												
	Practical English 3-4	0	4					1	1	1	1								
	English for Business Communication 1	2	3									2	1						
	English for Business Communication 2	2	3											2	1				
	Practical English for Professionals 1	2	3													2	1		
	Practical English for Professionals 2	2	3															2	1
	Introduction to Artificial Intelligence	2	3	2	1														
	Programming Design	2	3			2	1												
	General Education	12	12																
	Physical Education(I)-(IV)	0	8	2		2		2		2		2		2					
	Subtotal	28	54																
College Required Courses	Data Science	3	3	3															
	Programming Language	3	5			3	2												
	Introduction to Finance and Financial Ethics	2	2			2													
	Introduction to Financial Technology	2	2					2											
	Subtotal	10	12																

Course		Credits	Hours	1st year Fall		1st year Spring		2nd year Fall		2nd year Spring		3rd year Fall		3rd year Spring		4th year Fall		4th year Spring	
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
Professional Required Courses	Statistics(I、II)	6	8	3	1	3	1												
	Calculus(I、II)	6	8	3	1	3	1												
	Economics	3	4	3	1														
	Accounting	3	4					3	1										
	Sampling Methods	3	3					3											
	Linear Algebra	3	4					3	1										
	Advanced Programming	3	5					3	2										
	Statistical Databases	3	3							3									
	Applied Regression Analysis	3	3							3									
	Applied Categorical Data Analysis	3	3									3							
	Experimental Desing	3	3									3							
	Applied Categorical Data Analysis	3	3											3					
	Data Mining	3	3											3					
	Special Topics in Statistical Information	4	4											2		2			
	FinTech Workshop(I、II)	4	4									2		2					
	Subtotal	53	81																
Group compulsory	Applied Statistics — Seatistical Software Package	3	4									3	1						
	Application of Statistical Methods	3	4									3	1						
	Subtotal	6																	
	Big data management — Application and Design of Web-based Database System	3	3									3							
	Exploratory data analysis and visualization	3	3											3					
	Subtotal	6																	
Faculty compulsory	Subtotal	59																	

Notes:

Course	Credits	Hours	1st year Fall		1st year Spring		2nd year Fall		2nd year Spring		3rd year Fall		3rd year Spring		4th year Fall		4th year Spring	
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
Marketing Surrey	3	3					3											
Marketing	3	3							3									
Marketing Management	3	3													3			
Digital Marketing Practice	3	3															3	
E-commence Website Traffic Analysis	3	3							3									
Biometric method	3	3											3					
Epidemiological	3	3											3					
Health data analysis	3	3											3					
Statistical Analysis in Clinical Data	3	3															3	
Actuarial Mathematics (I、II)	6	6									3		3					
Theory of Interest	3	3					3											
Financial data analysis and program	3	3									3							
Financial Information System	3	3									3							
Quality Control (I、II)	6	6					3		3									
Reliability Analysis	3	3									3							
Linear Programming	3	3									3							
Operations Research	3	3											3					
Quality Engineering	3	3											3					
Dynamic Homepage programming	3	3							3									
Data simulation analysis	3	3											3					
Design of Data Dynamic Dashboard	3	3											3					
Data Analysis Practice	3	3											3					

Row group label (vertical): Professional Elective Courses

Course	Credits	Hours	1st year Fall		Spring		2nd year Fall		Spring		3rd year Fall		Spring		4th year Fall		Spring	
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
Nonparametric Statistics	3	3							3									
Application probability theory	3	3							3									
Statistical applied mathematics	3	3							3									
Workplace English	3	3									3							
Danger theory	3	3									3							
Applied simulation method	3	3											3					
Visual Image in Practice	3	3											3					
Time Series Analysis	3	3													3			
Spatial statistics	3	3													3			
Curricular Practical Training	3	3													3			
Advanced chatbot implementation	3	3													3			
Machine Learning Practice	3	3													3			
Application decision method	3	3															3	
Social media marketing	1	1							1									
Marketing data analysis	1	1							1									
E-commerce market environment analysis	1	1							1									
E-commerce logistics and payment	1	1							1									
AI prediction model	1	1									1							
Questionnaire structure model	1	1									1							

Course	Credits	Hours	1st year Fall class	lab	Spring class	lab	2nd year Fall class	lab	Spring class	lab	3rd year Fall class	lab	Spring class	lab	4th year Fall class	lab	Spring class	lab
Basic math	3	3					3											
Introduction to Mathematic	3	3					3											
History of mathematics	3	3					3											
Data analysis	3	3							3									
Advanced Calculus (I&II)	8	8					4		4									
Higher Linear Algebra	3	3									3							
Geometry (I& II)	6	6									3		3					
Algebra (I& II)	6	6									3		3					
Topology	3	3									3							
Microeconomics	3	3					3											
Macroeconomics	3	3							3									
Business Management	3	3					3											
Financial Management	3	3													3			
Investment	3	3															3	
E-commerce Operations	3	4							3	1								
E-Marketing	3	4							3	1								
Analysis and Investment of Individual Industries	3										3							
Analyzing Current Economic Events and Financial Investment	3										3							
Analyzing Current Economic Events	3										3							
Investment Analysis	3												3					
Financial Product and Practice Seminar on Financial Technology	3												3					
Financial Statement Analysis	3	3											3					
The Predictability of Interest rate and Exchange rate	3	3											3					
Futures and options	3	3													3			
Financial Instruments and Investment	3	3													3			

Total	Subtotal Required Course Credits	97
	Elective Course Credits	31
	Grand Total	128

1. In accordance with MCU General Provisions for Study, all undergraduate students must pass the requirements for Service-Learning, English Proficiency, Information Technology Proficiency, Chinese Proficiency, Sports Ability, and Basic Professional Skills in order to graduate.
2. Students are required to take at least 12 credit hours of General Education courses. There are three disciplines within General Education – Humanities, Social Science and Natural Science. The courses are categorized into "Core Courses" and "Extended Courses" under each discipline. To meet the graduation requirements, students are required to take at least one 2-credit-hour course in each category of each of the disciplines.
3. Credits for education and general education are not included in the credits.
4. The credits of interdisciplinary focused course program are not included in course structure diagram that can be regarded as the other department credits.
5. Group compulsory censorship can be recognized as another group of professional elective credits.
6. Elective courses in this mandatory elective list can be traced back to students enrolled before the 110 academic year.