Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2019 Page 1 of 6

				1st year				2nd year					3rd	year		4th year			
	Course	Credits	Hours	Fa	all	Spr	ing	F	all	Sp	ring	F	all	Spr	ring	F	all	Spi	ring
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
	Chinese Literature :																		
	Appreciation and Creative	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				
Core Required Courses	Practical English for Professionals 1	2	3													2	1		
Courses	Practical English for Professionals 2	2	3															2	1
	Applied Information Technology : Office Software	2	3	2	1														
	Applied Information Technology : Data Processing	2	3			2	1												
	General Education	12	12																
	Physical Education(1)-(6)	0	12	2		2		2		2		2		2					
	Subtotal	28	54																
	Introduction to Information	3	3	3															
	Programming Language	3	3			3													
College Required Courses	Introduction to Finance and Financial Ethics	2	2			2													
	Introduction to Financial Technology	2	2					2											
	Subtotal	10	10																

Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2019 Page 2 of 6

		Course				1st	year			2nd	year			3rd	year		4th year			
		Course	Credits	Hours	Fa	all	Spr	ring	Fa	all	Spi	ring	F	all	Spr	ring	Fa	all	Spi	ring
					class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
		Statistics(I 、 II)	6	8	3	1	3	1												
		Calculus(I 丶 Ⅱ)	6	8	3	1	3	1												
		Economics	3	4	3	1														
		Accounting	3	4					3	1										
		Sample survey	3	3					3											
		Linear Algebra	3	4					3	1										
		Statistical Database	3	3							3									
Profes	sional	Applied Regression Analysis	3	3							3									
Required Courses		Application of multivariate data	3	3									3							
		Experimental Design	3	3									3							
		Application design	3	3											3					
		Applied Categorical Data	3	3											3					
		Data Mining	3	3											3					
		Special Topics in Statistical Information	4	4											2		2			
		Financial science and technology work($I \land \Pi$)	4	4									2		2					
		Subtotal	53	79	9		6		6		9		8		13		2			
	sd	Statistical Computer Softwares3	3	4					3	1										
sory	Applied Statistics	Statistical method application	3	4									3	1						
Indm		Subtotal	6																	
Group compulsory	ta nent	Exploratory data analysis and visualization	3	3					3											
Gre	Big data management	Internet database design	3	3											3					
	[ma	Subtotal	6																	
	culty pulsory	Subtotal	59																	

Notes:

Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2019 Page 3 of 6

- 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.
- 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 108 academic year.

					18	st year			2n	d year			3r	d year			4th year				
		Course	Credits	Hours	F	all	Spr	ing	Fa	all	Spri	ing	Fa	.11	Spr	ing		all		ing	
	1	1			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Professional Elective Courses cs Business Statistics Information	L L	Theory of Interest	3	3					3												
	ation	Risk Theory	3	3									3								
	rma	Danger theory	3	3									3								
	ss Info Ip	Actuarial Mathematics(I 丶 II)	6	6									3		3						
	atistics Group	Marketing Survey	3	3											3						
	Stat	Time Series Analysis	3	3													3				
	SSS SS	Marketing management	3	3													3				
	Isine	Marketing research	3	3															3		
	Bu	Application decision method	3	3															3		
sional		Introduction to Industrial Statistics	3	3					3												
ofes		Quality Control($I \cdot I$)	6	6					3		3										
Pro	ics up	Reliability Methods	3	3									3								
	atist Grc	Linear Programming	3	3									3								
	l Sta ion	Operations Research	3	3											3						
	tria	Quality Engineering	3	3											3						
	Industrial Statistics Information Group	Special Topics in Practices of Industrial Statistics	3	3													3				

Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2019 Page 4 of 6

Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2019 Page 5 of 6

				1s	t year			2n	d year			3rc	l year			4t	h year		
	Course	Credits	Hours	Fall		Spri	ng	Fa	all	Spri	ing	Fa	11	Spring		Fa	ıll	Spr	ring
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
	Nonparametric Statistics	3	3							3									
s s	Bioinformatics	3	3									3							
Biology Statistics Information Group	Application of stochastic	3	3									3							
	Biometric method	3	3											3					
	Epidemiological	3	3											3					
	Medical statistics method	3	3													3			
	Pharmaceutical statistical	3	3													3			
E B	Statistical analysis of	3	3															3	
	Survival analysis	3	3															3	
SCS	Health data analysis	3	3											3					
m	Spatial statistics	3	3													3			
<u>ک</u>	Advanced Statistics Suite	3	3									3							
ecuve	Application simulation method	3	3											3					
	Statistical calculation and drawing	3	3					3											
course	Application probability theory	3	3							3									
Common course	Statistical applied mathematics	3	3							3									
J me	E-commerce	3	3							3									
Con	Advanced mathematical statistics	3	3											3					
	Curricular Practical Training	3	3													3			
	金融數據分析與程式交易	3	3									3							
			The a	bove p	rofessi	onal cou	irses s	hould b	be seled	cted for	at leas	st 18 cre	edits.						

Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2019 Page 6 of 6

	Course Course				1s	t year			2r	nd year			3rc	d year			4th year				
		Course	Credits	Hours	Fa	all	Spri	ing	F	all	Spr	ing	Fa		Spri	ng	Fa	all	Spr	ring	
					class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
		Japanese (I & II)	4	6					2	1	2	1									
		Insurance	3	3					3												
		Microeconomics	3	3					3												
		Macroeconomics	3	3							3										
		Introduction to the Civil	3	3					3												
		Business Law	3	3							3										
		Business Management	3	3					3												
Professional Elective Courses	S	Money and Banking	3	3									3								
no	rse	Practice in International	3	3									3								
Ŭ	Jou	Public Finance	3	3									3								
ijV€	e C	Financial Management	3	3													3				
lect	General Elective Courses	Investment	3	3															3		
ΙE		National defense education		4	2		2														
ona		National defense education	0	4					2		2										
ssic		Physical education	4	4													2		2		
ofe	Gei	Basic math	3	3					3												
Pro	•	Introduction to Mathematic	:3	3					3												
		History of mathematics	3	3					3												
		Data analysis	3	3							3										
		Higher Linear Algebra	3	3									3								
		Advanced Calculus (I II)	8	8					4		4										
		Geometry (I & II)	6	6									3		3						
		Albebra (I & II)	6	6									3		3						
		Topology	3	3									3								
		Subtotal Required	97																		
Т	otal	Course																			
10	otai	Elective Course Credits	31																		
		Grand Total	128																		