Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2016 Page 1 of 6

				1 st year				2 nd year					3 rd	year			4 th y	year	
	Course	Credits	Hours	Fa	11	Spri	ng	Fal	11	Spring		Fall		Spring		Fa	11	Spri	ng
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
	Chinese Literature:	4	4	2		2													
	Appreciation and Creative Writing	1	1			ı													
	Practical English 1-2	0	4	1	1	1	1												
	Practical English 3-4	0	4					1	1	1	1								
	English for Business	2	3									2	1					'	
	Communication 1		ŭ									_	-						
	English for Business	2	3											2	1			1	
	Communication 2																	<u> </u>	
	Practical English for	2	3													2	1	'	
Core Required Courses	Professionals 1																	<u> </u>	
	Practical English for	2	3															2	1
	Professionals 2																	 	
	Applied Information	0	9	0	1													'	
	Technology: Office	2	3	2	1													1	
	Software																	 	
	Applied Information	0	0			0	1											'	
	Technology: Data	2	3			2	1											1	
	Processing																	<u> </u>	
	General Education	12	12									_						<u> </u>	
	Physical Education(1)-(6)	0	12	2		2		2		2		2		2				<u> </u>	
	Subtotal	28	54															<u> </u>	
	Statistics	6	8	3	1	3	1											<u> </u>	
	Calculus	6	8	3	1	3	1												
Required	Linear Algebra	3	4	3	1														
	Introduction to Information	3	3	3	1														
	Economics	3	4	3	1														
	Advanced Calculus	3	3			3													
	with Applications in																	'	
	Statistics																		

Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2016 Page 2 of 6

					year		2 nd	year			3 rd y	year		4 th year					
	Course	Credits	Hours	Fal	11	Spri	ng	Fa	11	Spring		Fall		Spring		Fal	11	Spri	ng
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
	Applied Probability Theory	3	4							3	1								
	Sampling Methods	3	3					3											
	Applied Regression Analysis	3	3							3									
	Statistical Computer Softwares	3	4					3	1										
	Statistical Database	3	3							3									
Professional	Accounting	3	4					3	1										
Required	Mathematical Statistics	3	4									3	1						
Courses	Experimental Design	3	3									3							
	Applied Categorical Data Analysis	3	3									3							
	Application of multivariate data	3	3											3					
	Data Mining	3	3											3					
	Internet Database Design	3	3									3							
	Special Topics in Statistical Information	2	2											1		1			
	Industrial Practice	2	2													2			
	Subtotal	64	79	15		9		9		9		12		7		3			

Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2016 Page 3 of 6

	Course					1 st y	ear			2^{nd}	year			3 rd	year		4 th year			
		Course	Credits	Hours	Fa		Spri		Fa		Spri		Fal		Spri		Fa		Spr	
	T. T				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
	Required Elective Courses	Applied Programming in Statistics	3	3			3													
	Required	Applied Multivariate Data Analysis	3	3											3					
		Theory of Interest	3	3					3											
	uo	Risk Theory	3	3									3							
urses	Business Statistics Information Group	Actuarial Mathematics-1	3	3									3							
Professional Elective Courses	cs Infe up	Actuarial Mathematics-2	3	3											3					
lect	atistics Group	Marketing Survey	3	3											3					
ıl E	Sta	Time Series Analysis	3	3													3			
ion	less	Data Mining	3	3													3			
rofess	Busin	Marketing Management	3	3													3			
P		Marketing Research	3	3															3	
		Introduction to Industrial Statistics	3	3					3											
	ics	Quality Control	6	6					3		3									
	Statistics on Group	Reliability Methods	3	3									3							
		Linear Programming	3	3									3							
	trial	Operations Research	3	3											3					
	Industrial Informati	Quality Engineering	3	3											3					
	nl nl	Special Topics in Practices of Industrial Statistics	3	3													3			

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	Course			11			ear		2 nd year						year		4 th year			
		Course	Credits	Hours	Fal		Spri		Fal		Spri		Fal		Spri		Fa		Spri	
	1				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
		Biology Information	3	3									3							
	dno	Applied Stochastic and Modeling	3	3									3							
ourses	Information Group	Biology Statistical Methods	3	3											3					
ctive C	nforma	Epidemiology	3	3											3					
Professional Elective Courses		Medicine Statistical Methods	3	3													3			
ofessio	Biology Statistics	Survival Analysis	3	3															3	
Pr	Biolog	Nonparametric Statistics	3	3							3									
		Applied Simulation	3	3											3					
		Applied Decision Methods	3	3															3	
		Japanese (I & II)	4	4					2	1	2	1								
		Insurance	3	3					3											
		Microeconomics	3	3					3											
Gen	neral	Macroeconomics	3	3							3									
Elec Cou	ctive irses	Introduction to the Civil Code	3	3					3											
		Business Law	3	3							3									
		Business Management	3	3					3											
		Money and Banking	3	3									3							

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				1 st year					2^{nd}	year		3 rd year				4 th year			
	Course	Credits	Hours	Fal		Spri		Fal		Spri		Fal		Spri		Fal		Spri	
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab
	Practice in International Trade	3	3									3							
	Public Finance	3	3									3							
	Special Topics in Statistics-1	3	3											3					
	Special Topics in Statistics-2	3	3													3			
	Financial Management	3	3													3			
	Investment	3	3															3	
	Military Training Education (I & II)	0	4	2		2													
	Nursing Education (I & II)	0	4	2		2													
	Military Training II	0	4					2		2									
	Physical Education	4	4													2		2	
	Fundamental Mathematics	3	3					3											
	Introduction to Mathematics	3	3					3											
	Mathematics History	3	3					3											
	Numerical Analysis	3	3							3									
	Geometry	3	3									3							
	Topology	3	3									3							
	Subtotal	36																	
Subtotal Required Course Credits	92																		
Elective Course Credits	36																		

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Course	Credits	Hours		$1^{\rm st}$ y	ear		2 nd year				3 rd year				4 th year				
			Fall		Spring		Fall		Spring		Fall		Spri	ng	Fal	1	Spri	ng	
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Grand Total	128																		

Notes:

- 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. The credits of interdisciplinary focused course program are not included in course structure diagram that can be regarded as the other department credits.