# Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2017 Page 1 of 6

				1 <sup>st</sup> year				2 <sup>nd</sup> year					year			4 <sup>th</sup> y	year		
	Course	Credits	Hours	Fal	1	Spri	ng	Fal	11	Spri	ng	Fal	11	Spri	ng	Fal	11	Spri	ing
				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	1		_													
	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		, and the second										1						
	English for Business	2	3											2	1				
	Communication 2	_												_	_				
	Practical English for	2	3													2	1		
Core Required	Professionals 1																		
Core Required Courses	Practical English for	2	3															2	1
	Professionals 2																		
	Applied Information																		
	Technology: Office	2	3	2	1														
	Software																		
	Applied Information																		
	Technology: Data	2	3			2	1												
	Processing																		
	General Education	12	12																
	Physical Education(1)-(6)	0	12	2		2		2		2		2		2					
	Subtotal	28	54																
	Statistics	6	8	3	1	3	1												
	Calculus	6	8	3	1	3	1												
Professional	Linear Algebra	3	4	3	1														
Required	Introduction to Information	3	3	3	1														
Courses	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 2017 Page 2 of 6

				1 <sup>st</sup> year				2 <sup>nd</sup> year					3 <sup>rd</sup> y	year		4 <sup>th</sup> 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 2017 Page 3 of 6

							ear			$2^{\text{nd}}$	year			3 <sup>rd</sup> y					year	
		Course	Credits	Hours	Fa		Spri		Fa		Spri		Fal		Spri		Fa			ring
					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 Cou	Applied Multivariate Data Analysis	3	3											3					
		Theory of Interest	3	3					3											
	no	Risk Theory	3	3									3							
Professional Elective Courses	Business Statistics Information Group	Actuarial Mathematics-1	3	3									3							
	cs Infe	Actuarial Mathematics-2	3	3											3					
lect	atistics ] Group	Marketing Survey	3	3											3					
I E	Sta	Time Series Analysis	3	3													3			
ions	ess	Data Mining	3	3													3			
rofessi	Busin	Marketing Management	3	3													3			
P		Marketing Research	3	3															3	
		Introduction to Industrial Statistics	3	3					3											
	ics	<b>Quality Control</b>	6	6					3		3									
	Statistics on Group	Reliability Methods	3	3									3							
	Sta on (	Linear Programming	3	3									3							
	trial	Operations Research	3	3											3					
	Industrial	Quality Engineering	3	3											3					
	nl nl	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 2017 Page 4 of 6

C				Hauma			ear		2 <sup>nd</sup> year						year		4 <sup>th</sup> 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							

## Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2017 Page 5 of 6

						year			$2^{\text{nd}}$	year				year			4 <sup>th</sup> y	ear	
	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	1
	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							i
	Subtotal	36																	ł
Subtotal Required Course Credits	92																		
Elective Course Credits	36																		

#### Ming Chuan University Department of Applied Statistics and Information Science Course Outline for all students entering in 2017 Page 6 of 6

Course	Credits	Hours		1 <sup>st</sup> y	year		2 <sup>nd</sup> year				3 <sup>rd</sup> year				4 <sup>th</sup> 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
Gra	and 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.