

# 管院碩士班(含碩專班)課程大綱

## MS/MA Program Syllabus

2019.12.16 修訂

系所 Department	資管所 IM 醫管所 Medical IM		必選修 compulsory/elective	選修 Elective
課程名稱 Course title	統計分析應用研究 Study on Applications of Statistical Analysis		學分數 Credit(s)	3
學年/學期 academic year/Semester	109-2 學期 Spring semester 2021		上課地點 Classroom	管院 349
講授教師 Instructor	林育秀 Yu-Hsiu Lin		上課時間 Time	Monday, 9:10AM~12:00
教師辦公室&諮詢時間 Instructor office number & office hour	614 Wednesdays	教師聯絡資訊 Instructor Contact		Phone: 34614 Email: yuhsiu@ccu.edu.tw
助教 Teaching assistant	TBD	助教 聯絡資訊 TA contact		Email: TBD
先修課程 Pre-requisite courses	統計學			
課程目標 Course Objective	Provides well-organized coverage of statistical analysis and application in information management and health-related fields with comprehensive insights into the techniques and interpretation of R, SPSS, and SAS outputs.			
AACSB 學習品質保證學習目標 Assurance of Learning (AOL) Learning goals *請先選填為主要或次要學習目標(Major or minor learning goal)，再選擇對應之學習目標				
主要學習目標 Major learning goal 目標 3：研究能力 LG3:Research Skills		次要學習目標 Minor learning goal 目標 1：知識整合 LG1:Knowledge Integration		次要學習目標 Minor learning goal 目標 5：商業倫理 LG5:Business Ethics
教材 Teaching materials	TBD			
網址 Course website	eCourse2			
教科書/參考書 Textbooks/Reference	An Introduction to Statistical Analysis in Research: With Applications in the Biological and Life Sciences.			
評量方式(請填百分比) Assessment	課堂參與 Participation	20%	個案討論 Case study	20%
	作業 Homework	40%	專題 Project	%
	小考 Quiz	%	其他 1 other ( )	%
	期中考 Midterm	%	其他 2 other ( )	%
	期末考 Final	20%	其他 3 other ( )	%

	報告 Presentation	%	其他 4 other ( )	%
其他說明 Other description	<p>1. <b>Academic Honesty:</b> Academic integrity policy, based on the law: <a href="https://goo.gl/z6UqZ2">https://goo.gl/z6UqZ2</a> (Please read and understand). Most students are expected to be honest in your academic work, hence, you are expected to comply with the law. All research papers/assignments will be submitted through SafeAssignment to verify the originality of work and the adequacy of citation of sources.</p> <p>2. <b>Assignments are due on dates and at times note:</b> Under normal circumstances, late work will <b>NOT</b> be accepted without prior agreement, except in the case of an emergency. You should contact me directly via e-mail if you have difficulty submitting an assignment on time. All assignments are due by close of business (COB) the day.</p> <p>3. <b>Student Disabilities:</b> Please contact me personally at the beginning of the semester if you have a condition or disability that may interfere with your performance in this course. We can discuss accommodations that may be necessary to allow you to participate fully and to facilitate your learning opportunities in the class.</p>			

## 課程規劃表 Course Schedule

週次 week	日期 Date	內容 Description	教材章節 Textbook	其他說明 Remark
1.	2/22	Introduction		
2.	3/1	Break		
3.	3/8	Experimental design		
4.	3/15	Showing your data-Descriptive statistics: Tables and Graphs		
5.	3/22	Bivariate analysis-Chi-square and t test		
6.	3/29	Bivariate analysis-ANOVA, Pearson's and Spearman's Correlation		
7.	4/5	Break		
8.	4/12	Inferential statistics: Linear regression		
9.	4/1	Inferential statistics: Dealing with categorical data		
10.	4/26	Inferential statistics: Logistic regression		
11.	5/3	Epidemiology: Survival analysis (1)		
12.	5/10	Epidemiology: Survival analysis (2)		
13.	5/17	Overview of Research Methodologies		
14.	5/24	Business Application of Machine Learning and Artificial Intelligence in Healthcare		
15.	5/31	Case study (1)		
16.	6/7	Case study (2)		
17.	6/14	Break		
18.	6/21	Final		