

銘傳大學社會科學院「大數據統計學分學程」實施細則

Big Data and Statistics Focused Course Program of the School of Social Sciences at Ming Chuan University

103 年 4 月 25 日系務會議通過

103 年 4 月 28 日院課程暨院務會議通過

103 年 5 月 15 日教務會議審核通過

105 年 3 月 23 日系課程暨系務會議修正通過

105 年 5 月 9 日教務會議審核通過

Passed at the Department Affairs Committee Meeting on April 25, 2014

Passed at the Course and School Affairs Committee Meeting on April 28, 2014

Passed at the Academic Affairs Committee Meeting on May 15, 2014

Passed at the Department and Course Affairs Committee Meeting on March 23, 2016

Passed at the Academic Affairs Committee Meeting on May 9, 2016

- 一、 本院為培育大數據統計專業人才，以促進國內在大數據分析相關領域的研究，並為國家儲備大數據分析人才之需求，依據「銘傳大學跨院系所學分學程設置辦法」訂定「大數據統計學分學程」實施細則（以下簡稱本細則）。

In accordance with the Procedures for Establishing Cross-school, Cross-department, and Cross-disciplinary Degree and Course Programs, Big Data and Statistics Focused Course Program (hereinafter called the Rules) were established so that this program might cultivate Big Data and Statistics professionals for the nation to meet the need for studies related to Big data Analysis development.

- 二、 本學程由本院相關學系教師 5 至 7 人組成學程委員會，由委員互推一人擔任召集人，學程委員會負責學程課程規劃。

The program committee consists of 5 to 7 committee members. One member shall be elected as the convener by and from the entire membership of the committee. Program committee is responsible for program curriculum planning.

- 三、 本學程業務承辦單位為本院**應用統計與資料科學學系**。

The responsible unit for this program is the Department of Applied Statistics and Information Science.

- 四、 本學程應修科目學分表應經各級課程委員會及教務會議審核通過，校長核定後實施。

Upon being passed at the Department Curriculum Committee Meeting, School Curriculum Committee Meeting and University Curriculum Committee Meeting and the Academic Affairs Committee Meeting, and approved by the president, the list of the required courses and associated credit hours was announced and implemented.

- 五、 本校大學部學生應透過本校學生資訊系統申請，經核可後成為本學程學員。

All undergraduate students of Ming Chuan University can apply for this program through MCU Student Information System and be admitted upon approval.

- 六、 修讀本學程之學生應修讀完成至少 21 學分課程，其中至少應有 6 學分不屬於原學系、組、學位學程及輔系之科目。完成前述學分者，經審核無誤並報請校長核准後，由學校發給學分學程證明書。

Students must complete 21 credit hours. Among them, at least 6 credits shall come from the outside of the departments of the student's major and minor. After the completed credits are reviewed by Economics and Banking Department and approved by the president, the certificate will be issued by the University.

- 七、 修讀本學程學生，已符合原學系畢業資格但尚未修滿學程規定之科目與學分者，除修習教育學程得依「大學設立師資培育中心辦法」規定申請延長修業年限外，修習其他學分學程者仍依大學法等規定，不得延長其修業年限。

With the exception students in the Teacher Education Program who are eligible to extend their study period in accordance with regulations outlined in Procedures for Establishing Teacher Education Centers, if students taking the program related to these Rules meet the requirements for graduation in their original department or graduate program but have not completed the credits required for the program, they are limited by regulations outlined in University Law and may not extend the number of years required for graduation.

- 八、 本院依本校相關法規定期評估本學程實施結果，其評估標準包含學生申請數、取得證書數及學生滿意度等；並得依其評估結果修正或終止本學程。

The program will be reviewed periodically by the School of Social Sciences, including the numbers of applicants, certificates obtained, and students' satisfaction levels. Revision or termination of the program shall be made according to the assessment results.

- 九、 因故須終止實施本學程時，應提具終止說明書，經教務會議通過，報請校長核准後公告終止。

For any reason to stop this Focused Course Program should submit the Termination manual, and will be announced by the president while passing the Academic Affairs Committee Meeting.

- 十、 本細則未規定事宜，悉依本校學則及有關法令規定辦理。

Matters not covered in these Rules will be dealt with in according with the General Provisions for Study which have been established at this institution, and other relevant regulations.

- 十一、 本細則經系、院務會議及教務會議通過，報請校長核定後公告實施，修正時亦同。

Upon being passed at the Department Affairs Committee Meeting, School Affairs Committee Meeting and Academic Affairs Committee Meeting, and approved by the president, these regulations may be announced and implemented. Any revision must follow the same procedure.

銘傳大學社會科學院『大數據統計學分學程』課程架構表

Ming-Chuan University School of Social Science『Big Data Statistic Focused Course』Course Architecture

執行單位：應用統計與資料科學學系

Department : Department of Applied Statistics and Information Science

Course type	Course name	Total credits	Course Number	Notes
必修 required	抽樣方法 Sampling Methods	3	35203	ASIS
	實驗設計 Experimental Design	3	35303	
	統計套裝軟體 Statistical Software Packages	3	35208	
	應用統計計算及繪圖 Applied Statistical Computing and Graphing	3	35305	
	機率與統計 Probability and Statistics	3	36201	CSIE
	離散數學 Discrete Mathematics	3	36103	
	資料結構 Data Structures	3	36202/13202	CSIE /IM
	作業系統 Operating Systems	3	36301	CSIE
	統計學(一) Statistics I	3	35128/13111	IM/ASIS
	統計學(二) Statistics II	3	35129/13210	
	程式設計(一) Computer Programming I	3	13112/36101	IM/ CSIE
	統計資料庫 Statistical Databases	3	35306	ASIS
	資料庫系統 Database Systems	3	36304	CSIE
	資料庫管理 Special Topics on Database Management	3	13307	IM
	資料探勘 Data Mining	3	35431/36351/13936	ASIS/ CSIE /IM
	資料倉儲 Data Warehousing	3	13319	IM
	線性代數 Linear Algebra	3	35103/35106/36102	ASIS/ CSIE
管理數學 Managerial Mathematics	3	13203	IM	
選修 elective	應用統計程式設計 Applied Statistical Programming	3	35104	ASIS
	線性規劃 Linear Programming	3	35333	
	市場調查 Marketing Survey	3	35348	
	時間數列分析 Time Series Analysis	3	35435	
	應用多變量資料分析 Applied Multivariate Data Analysis	3	35307	
	應用模擬方法 Applied Simulation Methods	3	35338	CSIE
	資料倉儲系統規劃 Practical Data Warehouse System	3	36437	
	資料探勘實務分析 Data Mining Practice Analysis	3	36441	
	Java 程式設計 JAVA Programming	3	36237	
	XML 程式設計 XML Programming	3	36234	
	專案管理 Project Management (軟體專案管理 project management software)	3	13443(13286)	IM
	ERP 與運籌管理 ERP and Logistics Management	3	13976	
	網路規劃與管理 Network Planning and Management (企業網路技術 Enterprise Network Technologies)	3	13341(13988)	
作業研究 Operations Research	3	35334/13422	ASIS/IM	

Notes:

1. Student who attend this course architecture must complete 21 credits, include 12 required credits, and 9 elective credits, and also equal 6 credits which is not from your belongs department.
2. The elective courses in this course framework can be applied retroactively to students who entered from 2015 academic year.