

「大數據」國際學分學程選修辦法(81)

(The International Program in Big Data Applications)

115.5.5 資工系課程委員會通過

115.06.10 教務會議通過

- 一、為因應大數據技術與應用之快速發展，鑑於其已成為國際趨勢，並為高科技產業核心領域與學術研究重點之一，特依本校學分學程設置辦法設立「大數據國際學分學程」(以下簡稱本學程)。
- 二、本學程整合資訊電機學院之人工智慧(AI)及資料科學等相關課程，旨在培育具備數據分析背景與技能之專業人才，本校學生均得選修本學程。
- 三、本校學生依本辦法修習本學程課程達15學分以上(含)，且至少包含基礎課程2門及進階課程3門者，視為修畢本學程，並於成績單加註「修畢大數據國際學分學程」，並頒發學分學程證明書。
- 四、本學程之課程規定如下：

類別	課程名稱	課號	學分數	備註
基礎課程	資料科學導論	CE6143	3	至少選修2門
	資料科學	CO6063	3	
	Python 教育資料探勘實作	NL7045	3	
	資訊工程概論	CE2013	3	
進階課程	深度學習介紹	CE6146	3	至少選修3門
	AI 代理系統之設計與開發	CE8014	3	
	自然語言處理	CE7024	3	
	社群媒體探勘	CE7066	3	
	貝氏資料分析介紹	CE6139	3	

- 五、本辦法經學程設置單位及院級之課程委員會議審議通過，再提送校課程委員會及教務會議通過後實施，修正時亦同。

Regulations for The International Program in Big Data Applications

Revised and approved by the Department of Computer Science & Information Engineering Curriculum Committee on May 5, 2026.
Adopted after amendment by the Academic Affairs Meeting on June 10, 2026

1. In response to the rapid development of big data and applications, and in view of their emergence as a global trend as well as a core field in high-tech industries and academic research, the “International Credit Program in Big Data Applications” (hereinafter referred to as “the Program”) is hereby established in accordance with the University’s Regulations for Credit Program Establishment.
2. The Program integrates courses related to Artificial Intelligence (AI) and Data Science offered by the College of Electrical Engineering and Computer Science, aiming to cultivate professionals equipped with backgrounds and skills in data analysis. All students of the University are eligible to enroll in the Program.
3. Students who complete at least 15 credits (inclusive) of Program courses in accordance with these regulations, including at least two foundational courses and three advanced courses, shall be deemed to have fulfilled the requirements of the Program. A notation of “Completion of the International Credit Program in Big Data Applications” will be added to the academic transcript, and a program certificate will be issued.
4. Program Structure and Course Requirements are as follows.

Type	Course Name	Course No.	Units	Note
Fundamental Courses	Introduction to Data Science	CE6143	3	Select at least two courses
	Data Science	CO6063	3	
	Educational Data Mining Using Python	NL7045	3	
	Introduction to Computer Science and Information Engineering	CE2013	3	
Advanced Courses	Introduction to Deep Learning	CE6146	3	Select at least three courses
	Agentic AI: Foundations and Development	CE8014	3	
	Natural Language Processing	CE7024	3	
	Social Media Mining	CE7066	3	
	Introduction to Bayesian Data Analysis	CE6139	3	

5. These regulations shall be implemented upon approval by the Program Committee and the College Curriculum Committee, followed by ratification by the University Curriculum Committee and the Academic Affairs Meeting. Any future amendments shall follow the same procedure.