

各位理學院的同學們，大家好：

新學期即將展開，在此預祝各位健康愉快、收穫豐碩，並竭誠歡迎新生加入理學院大家庭。

近年來，人工智慧（AI）在全球科學研究中的影響力日益擴大，從基礎理論探索到實驗數據分析，AI 正快速改變各學科的研究模式。為了讓本院同學能夠掌握這股關鍵力量，並在未來科學研究路途上具備跨域優勢，理學院於本學期特別開設全新跨領域課程——「人工智慧與科學」（AI in Science，以中文授課為主）。

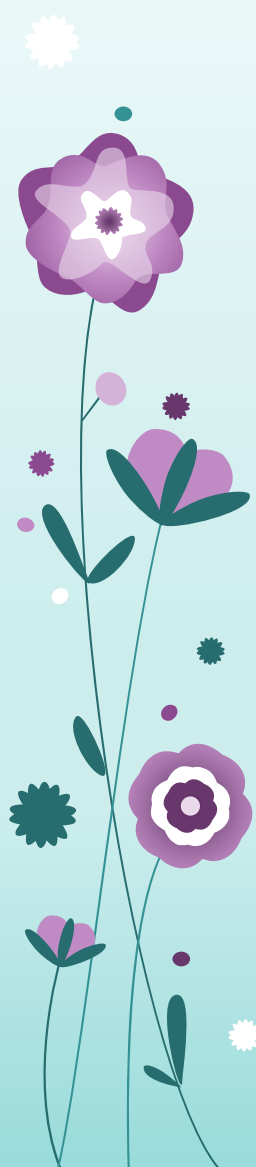
本課程由理學院多個系所教師共同授課，內容涵蓋人工智慧的基礎概念、機器學習、資料分析、建模方法，以及如何將這些工具應用於真實的科學問題中。課程設計結合理論講授與實作練習，幫助同學在最前沿的 AI 方法與實務技巧中建立基礎，並能將所學運用於數學、物理、化學、地質、地理、心理、大氣科學等不同領域的研究。

本課程不要求先前有人工智慧或程式設計背景，任何有志於了解 AI 與科學交會之處的同學皆可參與。這將是你探索新知、擴展科學研究視野、開啟跨領域學習契機的絕佳起點。

誠摯邀請各位同學踴躍修習，一同探索人工智慧如何推動未來科學發展！

希望這樣的課程設計有助於同學們對 AI 有更深入的體會。也請修過課的同學們不吝於提供心得，協助理學院精進未來年度的課程設計。

院長 葉素玲 2025/08/18



Dear Students of the College of Science,

Greetings to all of you as we approach the beginning of the new semester. We wish you good health, happiness, and fruitful achievements, and we warmly welcome the incoming students joining the College of Science family.

In recent years, Artificial Intelligence (AI) has rapidly transformed scientific research worldwide—from fundamental theoretical exploration to large-scale data analysis—reshaping how discoveries are made across multiple disciplines. To equip our students with this essential and powerful tool, the College of Science is pleased to introduce a brand-new interdisciplinary course this semester: [AI in Science](#) (conducted primarily in Chinese).

This course is co-taught by faculty members from several departments within our College and provides an introduction to AI's foundational concepts, machine learning, data analysis, and modeling techniques. It focuses on how these tools can be meaningfully applied to real-world scientific challenges in areas such as physics, mathematics, psychology, and earth sciences. Through a combination of conceptual lectures and hands-on practice, students will gain both theoretical understanding and practical skills to begin integrating AI into their academic and research endeavors.

No prior background in AI or computer science is required. Any student interested in exploring the intersection of AI and science is warmly encouraged to join. This course offers a valuable opportunity to broaden your perspectives, strengthen interdisciplinary capabilities, and prepare for the future of scientific discovery.

We sincerely invite you to enroll and embark on this exciting journey into AI in Science.

This course design will provide you with a deeper understanding of AI. We appreciate your feedback and assistance in improving the course design for future years for those who have already taken the course.

Best regards,

Prof. Su-Ling Yeh
Dean, College of Science, NTU

