人工智慧應用學士學位學程 課程檢核表
BPAI -Course Checklist

姓名/ Name: _____ **學號/ Student ID:** _____

畢業學分要求節錄如下，詳細規定參見國立政治大學學士班學生修讀雙主修、輔系辦法；學程必修科目表。

1. 雙主修：取得本學程雙主修學位最低學分數為 42 學分，其中包含：
   (1) 專業必修：6 學分。
   (2) 群修：至少 36 學分。
2. 專案申請轉為主修學系畢業：最低畢業總學分數為128學分，須包含以下學分：
   (1) 校定共同必修32學分：含通識課程28學分、體育必修課4學分。(超修之通識學分數不計入畢業學分)
   (2) 專業必修6學分，群修至少36學分。
   (3) 選修54學分：可任選本學程或外系學分。
   (4) 全民國防教育軍事訓練及體育選修課不採計為畢業學分。

The graduation credit requirements are summarized below. For detailed regulations, please refer to "National Chengchi University Guidelines for Undergraduate Students Declaring Double Majors or Minors" and the list of required course of BPAI.

1. Double Major: at least 42 credits, including
   (1) 6 credits of required courses
   (2) 36 credits from partially required courses of Group A, B, C and D.
2. Apply to Graduate from BPAI: Student who want to apply to graduate from BPAI need to meet the followings,
   (1) 6 credits of BPAI's required courses and 36 credits from BPAI's partially required courses of Group A, B, C and D.
   (2) 32 credits of NCCU Compulsory: 28 credits of General Education Courses, and 4 credits of PE courses
   (3) 54 credits of Elective Courses
   *The application need to follow the regulation "National Chengchi University Guidelines for Undergraduate Students Declaring Double Majors or Minors" and the list of required courses of BPAI.

必修課程
Required Courses (6 credits)

科目名稱 Course	學分數 Credits	分數 Grade	取得學分數 Credits Earned
計算思維與人工智慧應用導論 Computational Thinking and Introduction to Artificial Intelligence	3		
人工智慧實務專題 Study on Application Practices of on Artificial Intelligence	3		
小計 Subtotal	_____門/courses, _____學分/ credits		

群修課程-第一類群修
Partially Required Courses: Group A

✓ 非資訊系學生至少選2門，第一至二類至少選4門。資訊系(含輔系)學生修習第一、二類不計入學程畢業學分。
✓ Requirements for students from Dept. of C. S: 0 courses；Requirements for students from non-Dept. of C. S: at least 2 courses of Group A and at least 4 courses of Group A&B。

科目名稱 Course	學分數 Credits	分數 Grade	取得學分數 Credits Earned
人工智慧方法與工具 Artificial Intelligence : Methods and Tools	3		
計算機程式設計 Computer Programming	3		
資料結構 Data Structure	3		
人工智慧程式設計 Artificial Intelligence Programming	3		
演算法 Algorithms	3		
物件導向程式設計 Object-Oriented Programming	3		
小計 Subtotal	_____門/courses, _____學分/ credits		

群修課程-第二類群修
Partially Required Courses: Group B

✓ 非資訊系學生至少選1門，第一至二類至少選4門。資訊系(含輔系)學生修習第一、二類不計入學程畢業學分。
✓ Requirements for students from Dept. of C. S: 0 courses; Requirements for students from non-Dept. of C. S: at least 1 course of Group B and at least 4 courses of Group A&B

科目名稱 Course	學分數 Credits	分數 Grade	取得學分數 Credits Earned
統計學（一） Statistics(I)	3		
機率論 Theory of Probability	3		
離散數學 Discrete Mathematics	3		
數學軟體應用 Applications of Mathematics Softwares	3		

線性代數 Linear Algebra	3		
小計 Subtotal	_____門/**courses,** _____學分/ **credits**		

群修課程-第三類群修(人工智慧技術課群) **Partially Required Courses: Group C (AI Technology)**			

✓ 非資訊系學生至少選4門，資訊系(含輔系)學生至少選7門。
✓ Requirements for students from Dept. of C. S: at least 7 courses of Group C; Requirements for students from non-Dept. of C. S: at least 4 courses of Group C

科目名稱 **Course**	學分數 **Credits**	分數 **Grade**	取得學分數 **Credits Earned**
AI 導論(英) Introduction to AI	3		
人工智慧概論 Introduction to Artificial Intelligence	3		
生成式AI：文字與圖像生成的原理與實務 Generative AI: Text and Image Synthesis Principles and Practice	3		
自然語言處理 Natural Language Processing	3		
貝氏資料分析 Bayesian Data Analysis	3		
卷積神經網路與進階神經網路 Convolutional Neural Networks and Advanced Neural Networks	3		
深度學習：基礎及應用 Deep Learning：Fundamentals and Applications	3		
資料科學 Data Science	3		
資料採掘 Data Mining	3		
資訊視覺化 Information Visualization	3		
電腦視覺 Computer Vision	3		
電腦圖學 Computer Graphics	3		
網路搜索與探勘 Web Search and Mining	3		

科目名稱 Course	學分數 Credits	分數 Grade	取得學分數 Credits Earned
影像處理 Image Processing	3		
數據分析實作(英) Capstone: Practice of Data Analysis	3		
機器學習概論 Introduction to Machine Learning	3		
機器學習觀念與應用 Machine Learning : Concepts and Applications	3		
應用機器學習(英) Applied Machine Learning	3		
小計 Subtotal	_____門/courses, _____學分/ credits		

群修課程-第四類群修(人工智慧應用課群)
Partially Required Courses: Group D (AI Application)

✓ 非資訊系學生至少選4門，資訊系(含輔系)學生至少選5門，科目列表請見學程網站。
✓ Requirements for students from Dept. of C. S: at least 5 courses of Group D; Requirements for students from non-Dept. of C. S: at least 4 courses of Group D

科目名稱 Course	學分數 Credits	分數 Grade	取得學分數 Credits Earned
人機互動 Human computer interaction	3		
人工智慧倫理 AI Ethics	3		
人工智慧與法律 Artificial Intelligence and the Law	3		
人工智慧與會計應用 Artificial Intelligence and Accounting Application	3		
人工智慧與商業應用(英) Artificial Intelligence in Business Applications	3		
人工智慧、資訊安全與法律 Artificial Intelligence, Information Security, and the Law	3		
人工智慧生成圖像與創造力 Artificial intelligence and visual creativity	3		
大數據分析與社會科學 Big Data Analysis in Social Science	3		

課程名稱	學分		
大數據與社會分析(英) Big Data for Social Analysis	3		
生成式AI及資料科學應用實作(英) Capstine: Practice of Generative AI and Data Science	3		
生成式人工智慧的人文導論 Introducing Generative AI for the Humanities	3		
生物資訊概論與實務(英) Theory and Practice of Bioinformatics	3		
自主行動機器人導論 Introduction to Autonomous Mobile Robots	3		
社群媒體探勘 Social Media Mining	3		
金融科技導論 Introduction to FinTech	3		
設計思考與人工智慧 Design Thinking and Artificial Intelligence	3		
無人機智慧系統開發與實作 System Development and Implementation of Drone Intelligence	3		
量子計算(英) Introduction to Quantum Computation	3		
資料科學與財政研究 Data Science for Public Finance	3		
語料處理 Corpus Processing	3		
踏石智慧跨領域 Stepping Stones toward Artificial Intelligence and Interdisciplinarity	3		
踏石智慧跨領域 Stepping Stones toward Artificial Intelligence and Interdisciplinarity	3		
機器學習與其在行為科學之應用 Machine Learning and its Applications in Behavioral Science	3		
機器導航與探索 Robotic Navigation and Exploration	3		
小計 Subtotal	_____門/courses, _____學分/ credits		

獲得學分數總計 Total Credits Earned：_____