

國立交通大學人機智能與哲學跨域學程實施要點

National Chiao Tung University Implementation Guidelines for “Philosophy, Intelligence, Brain, and Mind” Cross-Disciplinary Program

108.5.13 107 學年度下學期第 2 次共同教育委員會課程委員會議通過

108.5.23 107 學年度第 2 次課程委員會議通過

108.6.6 107 學年度第 4 次教務會議核備通過

109.4.27 108 學年度下學期第 3 次共同教育委員會課程委員會議修訂

109.5.19 108 學年第 4 次課程委員會議通過

109.6.16 108 學年度第 4 次教務會議核備通過

109.11.13 109 學年上學期第 3 次共同教育委員會課程委員會議修訂

109.11.30 109 學年第 1 次課程委員會議通過

109.12.28 109 學年度第 2 次教務會議核備通過

- 一、依據國立交通大學跨域學程實施辦法，為鼓勵學生進行跨領域學習，建立跨域學習深度，協助學生拓展第二專長，提供學生可以在畢業學分不增加（或僅少量增加）情況下，修畢跨域學程，特訂定本要點。
 - I. The Implementation Guidelines are based on National Chiao Tung University Cross-Disciplinary Program Implementation Regulations to provide the opportunity for students to proceed cross-disciplinary learning without increasing graduate credits (or only a few extra credits) in order to encourage students to conduct cross-disciplinary study, build the depth of cross-disciplinary study, and assist students to expand second specialty.
- 二、人機智能與哲學跨域學程（以下簡稱本學程），由本校與國立陽明大學心智哲學研究所提出之模組課程。模組課程分為 A 類「覺察課程」、B 類「深化課程」、C 類「提案實作與案例研究」三大類，包含本領域之基礎核心知識、專案實作與研究，總學分數 28 學分。學生修習本學程為第二專長者，可於其畢業證書原系名稱後加註「人機智能與哲學」為跨域專長。
- II. “Philosophy, Intelligence, Brain, and Mind” Cross-Disciplinary Program (hereinafter referred to as Our Program) is the module curriculum proposed by Our university and Institute of Philosophy of Mind and Cognition, NYMU. The module curriculum is comprised of A type “Perceive Course”, B type “Deepen Course” and C type “Project Implementation and Case Study”, including the core knowledge curriculum of the field and project implementations and studies. The title credits of Our Program will be 28 credits. For students taking Our Program module curriculum as their second specialty, “Philosophy, Intelligence, Brain, and Mind” will be remarked as their cross-disciplinary specialty after the title of their major department on the diploma.

三、本要點修業規定：

- (一) 本校學生欲修習跨域學程且選擇「人機智能與哲學」作為其跨域專長者，得於每學年

度公告申請期限內向其所屬學系（以下簡稱原系）提出申請，通過原系以及教學發展中心的雙邊審查後，方可進入跨域學程。

- (二) 本校學生欲修習跨域學程且選擇「人機智能與哲學」作為其跨域專長者，其課程包含：校必修（含共同必修 28 學分），原系基礎必修課程，原系跨域模組課程，以及列示於『人機智能與哲學跨域模組課程必修科目表』的模組課程，畢業學分以 128 學分為原則。

III. Policies of these Guidelines

- (1) For students who would like to study for cross-disciplinary program and choose “Philosophy, Intelligence, Brain, and Mind” as their cross-disciplinary specialty, they could submit the application to the department that they belong to (hereinafter referred to as the Major Department) within the dates of annual announcements by faculty. They could only take the cross-disciplinary program after approved by both their master department and Center of Teaching and Learning Development.
- (2) The courses for the students who would like to study for cross-disciplinary program and choose “Philosophy, Intelligence, Brain, and Mind” as their cross-disciplinary specialty include required courses of the university (including 28 credits of general education subjects), core curriculum at their Major Department, cross-disciplinary module curriculum at their master department, and the module curriculum listed on “The Required Course List for the students study cross-disciplinary module curriculum of Philosophy, Intelligence, Brain, and Mind” with at least 128 graduate credits.

四、本學程導師由本校與國立陽明大學心智哲學研究所各推派一名專任教師擔任，組成跨域學程導師群，專責輔導本學程的學生。

IV. Our university and Institute of Philosophy of Mind and Cognition, NYMU assigned respective full-time teacher to be the mentors and formed up a mentor group with teachers of cross-disciplinary program to give guidance to students taking Our Program.

五、為鼓勵不同系所或學院合作提出跨域共授課程，由兩位以上教師開授跨領域之創新整合式課程得依本校教師授課鐘點核計原則第九條第六款規定，教師的授課鐘點數可按到場時數計，但以開課前該門課程之實際簽呈為依據。

V. In order to encourage different departments or colleges working together for the proposal of cross-disciplinary curriculum, the number of teaching hours for the innovating integrated curriculum offered by more than two teachers could be calculated by the actual time of teaching according to Subparagraph 6, Article 9 of National Chiao Tung University Teaching Hours Accounting Principle; however, it will be in accordance with the official approval of the curriculum before the course starts.

六、本要點如有未盡事宜，悉依本校學則及其他相關規定辦理。

VI. If there is any unaccomplished matter of these guidelines, it shall be handled in accordance with the school constitution of our university as well as other relevant regulations.

七、本要點經共同教育委員會所屬課程委員會、校級課程委員會通過並提教務會議核備後實施，修訂時亦同。

VII. The Guidelines were approved by Curricular Committee of General Education Committee and Curricular Committee at university level and then submitted to the Council of Academic Affairs for approval-for-reference before putting it into practice; the same shall be done upon any amendment thereto.

人機智能與哲學跨域模組課程必修科目表

The Required Course List for the students study cross-disciplinary module curriculum of Philosophy, Intelligence, Brain, and Mind

類別	課程名稱	學分	開課單位	備註
A 類 覺察課程	哲學概論 Introduction to Philosophy	2	通識中心	必修 4 學分
	批判思考 Critical Thinking	2	陽明心哲所、 教務處	
	腦、心智與哲學 Brain, Mind and Philosophy	2	陽明心哲所、 教務處	至少選修 4 學分
	邏輯與 ICT 應用 Logic and Its Applications in Information and Communication Technology	2	陽明心哲所、 教務處	
	價值、倫理與未來社會 Value, Morality, and the Future Society	2	陽明心哲所、 教務處	
	科學哲學概論 Introduction to Philosophy of Science	2	陽明心哲所、 教務處	
B 類 深化課程	進階邏輯與 ICT 應用 Advanced Logic and Applications of ICT	3	陽明心哲所、 教務處	B 類課程至 少選修 12 學分
	AI 與人類社會 AI and Human Societies	3	陽明心哲所、 教務處	
	探索科學 I：舊世界的科學 Exploring History of Science. Part I: Science in Ancient Worlds	2	通識中心	
	探索科學 II：從前現代到現代科學 Exploring History of Science. Part 2: From pre-modern to modern science	2	通識中心	
	AI、自我與意識 AI, Self and Consciousness	3	陽明心哲所、 教務處	
	人類、動物與人工心智 Humans, Animals and AI Mind	3	陽明心哲所、 教務處	
	語言哲學、本體論與 AI Philosophy of Language, Ontology and AI	3	陽明心哲所、 教務處	
	科學史與科學哲學專題	3	陽明心哲所、	

	Topics in History and Philosophy of Science		教務處	
	心智科學哲學 Philosophy of the Sciences of Mind and Brain	3	陽明心哲所、 教務處	
	科幻、AI 與哲學 Science Fiction, AI and Philosophy	2	陽明心哲所、 教務處	
	資訊的哲學議題 Philosophical topics on information	3	陽明心哲所、 教務處	
	計算理論概論 Introduction to Theory of Computation	3	資管碩、陽明 心哲所	
C 類 提案實作 與案例研 究	批判思考案例研究 Case Studies of Critical Thinking	3	陽明心哲所、 教務處	至少選修 8 學分
	創新想像力 UP：思想實驗 Innovative Imagination UP: Thought Experiments	3	陽明心哲所、 教務處	
	悖論與除錯 Paradox and Debugging	3	陽明心哲所、 教務處	
	虛擬實境與臨床應用 VR and Clinical Applications	3	陽明心哲所、 教務處	
	敘事、AI 與臨床應用 Narrative, AI and Clinical Applications	3	陽明心哲所、 教務處	
	邏輯與邏輯編程 Logic and Logic Programming	3	陽明心哲所、 教務處	
	人機智能與哲學專題討論 I Seminar on philosophy, intelligence, brain and mind I	1	陽明心哲所、 教務處	
	人機智能與哲學專題討論 II Seminar on philosophy, intelligence, brain and mind II	1	陽明心哲所、 教務處	
總學分				28 學分