國立陽明交通大學醫學系「智慧健康照護跨域學程」實施要點
National Yang Ming Chiao Tung University
School of Medicine
Implementation Guidelines for Cross-Disciplinary Smart Health Care

一、依據國立陽明交通大學跨域學程實施辦法,國立陽明交通大學醫學系(以下簡稱本系)為鼓勵學生進行跨領域學習,強化跨域學習深度,協助學生拓展第二專長,特訂定本實施要點。

I. These Implementation Guidelines are prescribed by National Yang Ming Chiao Tung University School of Medicine (hereinafter referred to as Our Department) based on NYCU Cross-Disciplinary Program Implementation Regulations to provide the opportunity for students to proceed cross-disciplinary learning with 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、依據國立陽明交通大學跨域學程實施辦法,本系學生修習「智慧健康照護跨域學程」(以下簡稱本學程),於修畢後可於畢業證書上加註「智慧健康照護」為跨域專長。

II. According to NYCU Implementation Guidelines for Cross-Disciplinary Program, students in School of Medicine could be remarked as "Smart Health Care" on the diploma once they complete this program.

三、本要點實施細節
1. 適用對象:本系 104 學年度(含)之後入學之學士班學生均適用本要點。
2. 申請程序:
(1) 本系學生欲修習本學程者得於每學期提出申請,經本系、護理學系及資訊工程學系審查通過後,方可修習本學程。
(2) 本跨域學程的課程列示於「醫學系『智慧健康照護跨域學程』必修科目表」,其課程包含:共同必修 6 學分、資訊工程模組必修 9 學分、及選修至少 15 學分,共至少需修畢 30 學分。本系學生選修本跨域學程者,畢業學分至少 241 學分,包含全校共同必修科目,本系必修科目與學分數請參考各組各學年度之必修科目表與應行注意事項。
(3) 修畢本學程之本系學生可免修「科學發表與思維」、「計算機概論」之本系必修課;若無法完成(2)中所規定之課程,可回復修習原醫學系的學士學位課程,惟須補足「科學發表與思維」、「計算機概論」之本系必修學分。

III. Guidelines in detail
1. People applicable to this program: undergraduate students enrolled at Our Department in or after 2015.
2. Procedure to apply for this program:
   a) Students may submit applications to Our Department during the semester of every year. The application will be evaluated by the Curricular Committees at the Our Department, Nursing, and CS departments, respectively. Students are enrolled in the cross-disciplinary program only after their applications have been approved by tripartite sides.

b) Courses included in this program are listed on "The Required Course List for the students at Our Department study cross-disciplinary program of Smart Health Care". Courses are classified as:

Common Compulsory courses: 6 credits

Computer Science Module courses: 9 credits

Elective courses: at least 15 credits

At least 30 credits are required to complete the cross-disciplinary program of Smart Health Care. At least 241 credits including courses of the university are required for graduation. For the compulsory courses and credits of Our Department, please refer to the lists of compulsory courses and regulation for each group of each academic year.

c) For students at Our Department who complete the cross-disciplinary program of Smart Health Care, the courses of "Scientific Presentation and Thinking" and "Introduction to Computer Science" can be waivable. For students at Our Department who study for cross-disciplinary program but are not able to complete the program, they shall give up the cross disciplinary program and transfer to study for the bachelor degree program at the original School of Medicine and also need to make up the credits of "Scientific Presentation and Thinking" and "Introduction to Computer Science" courses.

四、本系指定一名專任教師擔任跨域學程導師,與護理學系、資訊工程學系的跨域學程導師組成導師群,專責輔導跨域學程的學生。

IV. Our department assigned one full-time teacher to be the mentor of the cross-disciplinary program and formed mentor group with teachers of cross- disciplinary program at other departments to give guidance to cross- disciplinary program students.

五、本要點如遇修訂,須主動知會護理學系及資訊工程學系。

V. Our Department should notify the CS and Nursing departments if the guidelines need to be revised.

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 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.

醫學系「智慧健康照護跨域學程」必（選）修科目表
Courses for the students of School of Medicine
Cross-disciplinary Program of Smart Health Care

類別	選別	科目名稱	學分 上學期	學分 下學期	開課系所	備註
本系學分 (241學分)	本系選擇跨域學程為畢業條件者，畢業學分至少241學分，包含全校共同必修科目，本系必修學分數請參考各組各學年度之必修科目表與應行注意事項。					
智慧健康照護跨域學程（30學分）修畢於畢業證書加註「跨域專長：智慧健康照護」	共同必修 (6學分)	照護科技跨域專題(I) (II)	2	2	醫學系/護理系/資工系	
		健康照護數位轉型講座		2	醫學系/護理系/資工系	詳細課程名稱依當學期公告
	資訊工程模組必修 (9學分)	計算機概論與程式設計	3		資工系	
		資料結構與物件導向程式設計	3		資工系	
		演算法概論	3		資工系	
	選修(至少15學分)	公共衛生概論	1		醫學系	*「醫療與社會人文」與「進階公共衛生議題」為領域課程 *詳細課程名稱依當學期公告
		醫事法律	1		醫學系	
		醫學影像訊號原理與實務	3		醫學系	
		機器學習概論與實作	3		醫學系	
		健康大數據研究方法	2		醫學系	
		醫療照護研究方法	2		醫學系	
		醫療經濟學	2		醫學系	
		醫療與社會人文	2		醫學系	
		進階公共衛生議題	2		醫學系	
		醫學人文思辨	2		醫學系	
		人工智慧醫學影像應用專題研究	3		醫學系/資工系	

		數位醫學專題研究	3	醫學系	
		生醫科學與藥物發展的新知與前瞻	2	醫學系	
		護理專業問題研討	2	護理系	
		護理學導論	2	護理系	
		人文護理	2	護理系	
		傳播科技與健康照護	2	護理系	
		看得到、找得到、用得到的長期照顧	2	護理系	
		精神衛生護理學	3	護理系	
		教學原理與教學法	2	護理系	
		離散數學	3	資工系	
		線性代數	3	資工系	
		作業系統概論	3	資工系	
		計算機組織	3	資工系	
		數位電路設計	3	資工系	
		計算機網路概論	3	資工系	
		影像處理概論	3	資工系	
		人工智慧概論	3	資工系	至少選 9 學分
		資料庫系統概論	3	資工系	
		機器學習概論	3	資工系	
		計算機圖學概論	3	資工系	
		資料探勘	3	資工系	
		巨量資料分析技術與應用	3	資工系	
		資料視覺化與視覺分析	3	資工系	

		網路程式設計概論	3	資工系	
		網路安全	3	資工系	
		數位訊號處理概論	3	資工系	
		訊號與系統	3	資工系	
		電腦視覺	3	資工系	
		圖形識別	3	資工系	

備註：

1. 資訊工程學系課程擋修制度及相關規定請參閱「國立陽明交通大學資訊工程學系學士班修業辦法」。