

I-SHOU UNIVERSITY
International Program on Artificial Intelligence Technology
4-Year Curriculum for Students Admitted in Academic Year 2023
義守大學智慧科技英語學士學位學程_112 學年度入學新生四年課程

計畫表 *IPAI Required Credits for Graduation : 128

本學程總畢業學分數為 128 學分

1. GE Required Credits: 13 通識核心課程必修 13 學分。
2. GE Elective Credits (Liberal Arts Education): 10 通識博雅課程選修 10 學分。
3. Service Education Required Credits: 0 服務教育課程必修 0 學分。
4. PE Required Credits: 0 體育健康課程必修 0 學分。
5. College-required Credits: 10 院必修 10 學分(including 1 college-level cornerstone courses 包括 1 門院共同基礎核心必修課程)。
6. IPAI Required Credits: 53 including Academic & Practical Courses: 25, Academic Courses: 21, Practical Courses: 3, Capstone Courses: 4. 學程必修 53 學分：學術暨實務課程 25 學分，學術課程 21 學分，實務課程 3 學分，總結課程 4 學分。
7. IPAI Elective 22 Credits 學程選修 22 學分
8. No more than 20 credits from the courses offered by other departments within the International College, and/or non-Chinese taught courses from International programs will be recognized by IPAI. (including inter-college/departmental programs). However, International students could the courses instructed in Chinese.
學生可選修國際學院其他系或全英學程所開課程作為其他選修，至多承認20學分(含跨院系(微)學分學程)。但外籍生可以選修以中文授課之課程。

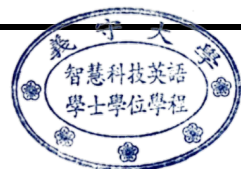
Note 備註：

1. Students are required to meet the requirements specified by IPAI for English Proficiency, in addition to earning the required number of credits to be eligible for graduation. 學生於修業年限內，除修滿總畢業學分數外，並應通過本學程「英語能力」畢業資格檢定作業規定，始具畢業資格。
2. International students who want to practice off-campus during the senior year must take the courses Off-campus Internship (I) ~ Off-campus Internship (VI) for a total of 18 credits, but only 9 credits are recognized and counted as graduation credits. 大四期間欲在校外實習之外籍學生，必須選修「校外實習(I)~校外實習(VI)」課程共18學分，惟本學程僅認列9學分為畢業學分計算。
- 3 「Chinese listening and speaking training I&II、Chinese reading and composition I&II」 Only international students can register these four elective courses. Four listed elective courses can be admitted as liberal arts credits in the area of language communication and expression, and two courses are the maximum. 「華語聽力與口語I(4學分)、華語閱讀與寫作I(3學分)、華語聽力與口語II(4學分)、華語閱讀與寫作(3學分)」此四門課僅有外籍學生可選修，至多可承認為兩門語言溝通與表達領域之通識博雅選修學分。
- 4 Students are required to meet the requirements of 10 liberal art credits, and Taiwanese students can register the courses opened by International College. 學生於修業年限內需修滿10學分之通識博雅課程，台籍學生可選修國際學院所開設之院通識課程。



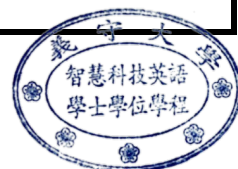
Freshman Year (2023)
大一課程表 (112)

Category 類別	Course Code 科目代號	Course Title 科目名稱	Fall 上	Spring 下	Required/ Elective 必/選修	Remark 備註
GE Required 通識必修	A93A17	Service Education (I) 服務教育(一)	0		Required 必	
	A85A01	Chinese Literature 華語文學	3		Required 必	Core Course 核 心
	A85A02	English Reading 英語閱讀	3		Required 必	Core Course 核 心
	A93A18	Service Education (II) 服務教育(二)		0	Required 必	
	A85A03	English Writing and Composition 英文寫作		3	Required 必	Core Course 核 心
	A93A29	Smart Tech 101 智慧科技密碼	2		Required 必	Core Course 核 心
	A93A28	Basic Medicine-Codes in Health and Medicine 健康醫學密碼		2	Required 必	Core Course 核 心
College-level Cornerstone Courses 院共同基礎 核心必修	A8DE01	Introduction to Computer Science 計算機概論	4		Required 必	
College- required Courses 院必修	A8D001	Calculus(I) 微積分(一)	3		Required 必	
	A8D002	Calculus(II) 微積分(二)		3	Required 必	
IPAI Required Courses 學程必修	A09400	Digital Logic Design 數位邏輯設計	3		Required 必	A&P 學術暨實務
	A09907	The Introduction of Artificial Intelligence Technology 智慧科技概論	1		Required 必	A&P 學術暨實務
	A09412	MATLAB Programming MATLAB 程式設計		3	Required 必	A&P 學術暨實務
	A09411	Physics 普通物理	3		Required 必	Academic 學術
	A09200	Computer Programming 計算機程式		3	Required 必	Academic 學術
IPAI Elective Courses 學程選修	A09323	Computer-Aided Drafting 電腦輔助繪圖	3		Elective 選	Practical 實務
	A09216	Chinese listening and speaking training (I) 華語聽力與口語(一)	4		Elective 選	僅外籍生可選修 For International Students only
	A09217	Chinese reading and composition (I) 華語閱讀與寫作(一)	3		Elective 選	
	A09218	Chinese listening and speaking training (II) 華語聽力與口語(二)		4	Elective 選	
	A09219	Chinese reading and composition (II) 華語閱讀與寫作(二)		3	Elective 選	
Total Required Credits for Academic Year 本學年必修學分數			36			



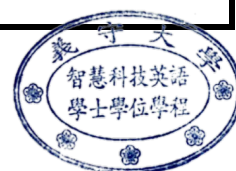
Sophomore Year (2024)
大二課程表 (113)

Category 類別	Course Code 科目代號	Course Title 科目名稱	Fall 上	Spring 下	Required/ Elective 必/選修	Remark 備註
GE 通識必修	A93A15	Physical Education (I) 體育(一)	0		Required 必	
	A93A16	Physical Education (II) 體育(二)		0	Required 必	
IPAI Required Courses 學程必修	A09203	Engineering Mathematics(I) 工程數學(一)	3		Required 必	Academic 學術
	A09204	Electric Circuits 電路學	3		Required 必	Academic 學術
	A09206	Electronics 電子學	3		Required 必	Academic 學術
	A09413	Python Programming Python 程式設計	3		Required 必	A&P 學術暨實務
	A09410	Signals & Systems 訊號與系統	3		Required 必	Academic 學術
	A09202	Automatic Control 自動控制	3		Required 必	A&P 學術暨實務
	A09205	Engineering Mathematics(II) 工程數學(二)		3	Required 必	Academic 學術
	A09207	Control Engineering Laboratory 控工實驗		1	Required 必	Practical 實務
	A09209	Electronics Laboratory 電子學實驗		1	Required 必	Practical 實務
	A09401	Microprocessor 微處理機原理		3	Required 必	A&P 學術暨實務
	A09406	Computer Vision 電腦視覺		3	Required 必	A&P 學術暨實務
IPAI Elective Courses 學程選修	A09319	Advanced Materials Science 尖端材料科學	3		Elective 選	A&P 學術暨實務
	A09300	Introduction to Intelligent Robotics 智慧型機械人概論	3		Elective 選	A&P 學術暨實務
	A09320	Automation Industry 工業自動化	3		Elective 選	A&P 學術暨實務
	A09322	Probability and Statistics 機率與統計	3		Elective 選	Academic 學術
	A09214	Linear Algebra 線性代數	3		Elective 選	Academic 學術
	A09404	Numerical Analysis 數值分析	3		Elective 選	A&P 學術暨實務
Total Required Credits for Academic Year 本學年必修學分數			29			



Senior Year (2025)
大三課程表 (114)

Category 類別	Course Code 科目代號	Course Title 科目名稱	Fall 上	Spring 下	Required/ Elective 必/選修	Remark 備註
IPAI Required Courses 學程必修	A09415	Digital Systems Laboratory 數位系統實驗	1		Required 必	Practical 實務
	A09212	Special Topic (I) 專題實作(一)		2	Required 必	Capstone 總結
	A09314	Machine Learning 機器學習		3	Required 必	A&P 學術暨實務
	A09407	Artificial Intelligence 人工智慧	3		Required 必	A&P 學術暨實務
IPAI Elective Courses 學程選修	A09301	Sensing Technology 感測技術		3	Elective 選	A&P 學術暨實務
	A09304	Database Management System 資料庫管理系統		3	Elective 選	A&P 學術暨實務
	A09305	Pneumatics and Hydraulics 氣油壓工程		3	Elective 選	A&P 學術暨實務
	A09306	Programmable Logic Controller 可程式控制器		3	Elective 選	A&P 學術暨實務
	A09307	Mechatronics 機電整合		3	Elective 選	A&P 學術暨實務
	A09310	Mobile Device Programming 行動裝置程式設計		3	Elective 選	A&P 學術暨實務
	A09311	Cloud Computing 雲端計算		3	Elective 選	A&P 學術暨實務
	A09312	Big Data Analysis 大數據分析		3	Elective 選	A&P 學術暨實務
	A09313	Single-chip Controller 單晶片控制		3	Elective 選	A&P 學術暨實務
	A09315	Embedded System 嵌入式系統		3	Elective 選	A&P 學術暨實務
	A09316	Introduction to Internet of Things 物聯網概論		3	Elective 選	A&P 學術暨實務
	A09416	Deep Learning 深度學習		3	Elective 選	Practical 實務
	A09417	Data Mining 資料探勘		3	Elective 選	Practical 實務
	A09325	3-D Printing Technology 3D 列印技術		3	Elective 選	Practical 實務
	A09419	Introduction to Embedded Programming 自主學習-嵌入式系統程式設計		2	Elective 選	A&P 學術暨實務
Total Required Credits for Academic Year 本學年必修學分數			9			



Senior Year (2026)
大四課程表 (115)

Category 類別	Course Code 科目代號	Course Title 科目名稱	Fall 上	Spring 下	Required/ Elective 必/選修	Remark 備註
IPAI Required Courses 學程必修	A09213	Special Topic (II) 專題實作(二)	2		Required 必	Capstone 總結
	A8700005	English Proficiency 英語能力	0		Required 必	
IPAI Elective Courses 學程選修	A09909	校外實習(一) Off-campus Internship (I)	3		Elective 選	Practical 實務
	A09910	校外實習(二) Off-campus Internship (II)	3		Elective 選	Practical 實務
	A09911	校外實習(三) Off-campus Internship (III)	3		Elective 選	Practical 實務
	A09912	校外實習(四) Off-campus Internship (IV)		3	Elective 選	Practical 實務
	A09913	校外實習(五) Off-campus Internship (V)		3	Elective 選	Practical 實務
	A09914	校外實習(六) Off-campus Internship (VI)		3	Elective 選	Practical 實務
	A09317	Semiconductor Fabrication 半導體製程	3		Elective 選	A&P 學術暨實務
	A09324	CAD/CAM 電腦輔助製造	3		Elective 選	Practical 實務
	A09326	Robotics 機械人學	3		Elective 選	Practical 實務
	A09327	Smart Building 智慧建築	3		Elective 選	Practical 實務
	A09328	Chemical Program Control 化工程序控制	3		Elective 選	Practical 實務
	A09329	VR/AR 虛擬及擴增實境	3		Elective 選	Practical 實務
	A09405	Fuzzy Control 模糊控制	3		Elective 選	A&P 學術暨實務
	A09418	Intelligent Image Analysis and Processing 智慧影像分析處理	3		Elective 選	Practical 實務
Total Required Credits for Academic Year 本學年必修學分數			2			

