Undergraduate Program in Department of Computer Science and Information Engineering (BS), 2021

This department was established to face the trends of artificial intelligence and computer science, as well as to meet the demands of domestic industries. Course instruction in this department not only focuses on lectures on the professional knowledge of artificial intelligence, software development, project management and database system operations, but also provides hands-on experience designed to prepare students for the positions in systems development and management in the IT field. It is hoped that academic theories and practical works can be used to affirm each other, and students can shorten their learning process after graduation at the beginning of their careers.

The undergraduate study in the Department of Computer Science and Information Engineering (CSIE) Specialty in Artificial Intelligence offers in-depth courses in various areas, with particular emphasis in computer vision, natural language processing, security and privacy, software debugging, robotics, and machine learning, etc. Our distinguished faculty have a wide range of research themes; together, they lead a coherent program to advance studies in particular subfield of computer science. This program welcomes students who are interested in Artificial Intelligence. More information, please visit the Department of Computer Science and Information Engineering (CSIE), Asia University.

110 學年度資訊工程學系大學部全英語課程規劃

Course Curriculum for Undergraduate Program in Department of Computer Science and Information Engineering 2020 (English-Taught Program)

資訊工程學系學士學位學程

Undergraduate Program in Department of Computer Science and Information Engineering

畢業總學分:128 學分 110.11.15 校課程委員會通過

Credits for Graduation: 128 Approved by the University Curriculum Committee on 15/11/2021

	類別 Category			科目名稱 Course Title	CEFR 等級	修課 年級 Year of the Program	修課 學期 Semester	學分數 Credits	每週上 Hours pe 講授 Lecture	er week 練習	備 註 Remarks	
				進階華語文會話與聽力(一) High-Intermediate Chinese Conversation and Listening I	B1	1 st	1 st	2	2	1		
		必	文	進階華語文會話與聽力(二) High-Intermediate Chinese Conversation and Listening II	B1	1 st	2 nd	2	2	1		
		修語、		中級中文文法 Intermediate Chinese Grammar	B1	1 st	2 nd	2	2	0		
		文課和		高階華語文會話與聽力(一) Advanced Chinese Conversation and Listening I	B2	2 nd	1 st	2	2	1		
	(程 18 學		時事華語 Current Affairs in Chinese	B2	2 nd	1 st	2	2	0		
	(24) Pro	子分	7	共通英語文(一) English for General Purposes (1)		1 st	1 st	3	3	0	分級上課	
	ogram		8	共通英語文(二) English for General Purposes (2)		1 st	2 nd	3	3	0	分級上課	
(30) (Requir		分	共通專業英語文 English for General Specific Purposes	1	2 nd	1 st	2	2	0	依系院上/下學期開課	
30) University Required Credits	(24) Program Required Credits	核心通識課程6學分	歷史與文化	臺灣/中國文化導讀(二) Introduction of Taiwanese / Chinese Culture II	B2	1 st	1 st	2	2	0		
uired Credits				健康與生活 Health and Life		1 st	2 nd	2	2	0		
			6 學	律血	娛樂、智慧財產權與法律 Entertainment and Intellectual Property Law 法律與生活 Law & Life 愛情、性別與法律 Love, Gender and Law		1 st	1 st or 2 nd	2	2	0	三選一 One Choice from Three
	(6) Program Elective Credits	通識選	通科技	訊科	資訊科技與華語表達訓練 Practice of Chinese Oral Expression through Information Technology	B1	1 st	2 nd	2	2	0	
	n Elect	修 6	红	進階華語文閱讀與寫作 High-Intermediate Chinese Reading and Writing	B1	1 st	2 nd	2	2	0		
	tive Cr	學分	尖兒	學術華語文 Chinese for Academic Purposes	C1	2 nd	2 nd	2	2	0		
	edits			*專業華語文 Chinese for Specific Purposes	В2	2 nd	1 st	2	2	0	專業華語目前提供 醫學華語與商業華	

	到 egory	科目名稱 Course Title	CEFR 等級	修課 年級 Year of the Program	修課 學期 Semester	學分數 Credits	每週上 Hours pe 講授 Lecture		備 註 Remarks	
							2000010		語,視選課需要而	
		高階華語文會話與聽力(二) Advanced Chinese Conversation and ListeningⅡ	B2	2 nd	1 st	2	2	1	定。	
		服務與學習(一)(二)-實作課 Service and Learning		1 st	1 st 、 2 nd	0	1.5	0	Time of class: (1) New student orientation (2)	
		服務與學習(一)(二)-講授課 Service and Learning(1)(2)-Lecture		1 st	1 st • 2 nd	0	2	0	orientation, (2) arranged and announced by student services	
		文化涵養護照 (國際生畢業門檻、不計學分) ificate of Taiwan-Chinese Cultural Understanding (Non-Credit Graduation Threshold)		1 ^{st~} 4 th	1 st or 2 nd	0	2	0	本畢業門檻不計學 分 4 年期間, 8 學	
		通識涵養教育(不納入畢業學分) General Literacy Series (non-credit)		1 ^{st~} 4 th	1 st or 2 nd	0	2		大學日間部須於與 4 次() () () () () () () () () ()	
以院		基礎程式設計(一)~(三) Fundamental Computer Programming (1)~(3)		1 st	1 st	3	3	0	Python Programming	
為教	Colleg	人工智慧概論 Introduction to Artificial Intelligence		2 nd	1 st	3	3	0		
學核	College required 12	進階程式設計 Advanced Computer Programming		1 st	2 nd	3	3	0	Including Object- oriented Python Programming	
心課	ed 12	畢業專題(一) Special Projects (I)		3 rd	2 nd	1	1	0		
程 12	credits	畢業專題(二) Special Projects (II)		4 th	1 st	1	1	0		
學分	O1	資訊研討 Information Technology Seminar		4 th	2 nd	1	1	0		
		資訊數學 Information Mathematics		1st	1 st	3	3	0		
		機率與統計 Probability and Statistics		1 st	1 st	3	3	0		
系	Depa	線性代數 Linear Algebra		1 st	2 nd	3	3	0		
核心	rtmen	離散數學 Discrete Mathematics		1 st	2 nd	3	3	0		
課	t requ	視窗程式設計		2 nd	1 st	3	3	0		
程 36	ired 36	Windows Programming 計算機網路概論		2 nd	1 st	3	3	0		
學分	Department required 36 credits	Introduction of Computer Network 網頁系統開發		2 nd	2 nd	3	3	0	Including JAVA	
	its	Web-Based System Programming 資料結構與演算法 Data Structures and Algorithms		2 nd	2 nd	3	3	0	Programming	
		數位邏輯 Digital Logics		2 nd	2 nd	3	3	0		

類別 Category				修課 FR 年級 級 Year of the Program	修課 學期 Semester	學分數 Credits	每週上 Hours po 講授 Lecture		備 註 Remarks
			資料庫系統概論	3 rd	1 st	3	3	0	
			Introduction to Database Systems 作業系統概論	3 rd	1 st	3	3	0	
			Introduction to Operating Systems 微處理器與嵌入式系統	3 rd	2 nd	3	3	0	
			Microprocessor and Embedded Systems 資料科學	2 nd	1 st	3	3	0	
		Artifi	Data Science 機器學習	2 nd	2 nd	3	3	0	
	人工	Artificial Intelligence Program	Machine Learning 大數據資料處理	3 rd	1 st	3	3	0	
	智慧	elligenc	Big Data Information Processing 深度學習	3 rd	1 st	3	3	0	
	學程	e Progr	Deep Learning 人機介面	4 th	1 st	3	3	0	
		äm	Human Machine Interface 智慧物聯網	4 th	2 nd	3	3	0	
			Artificial Intelligence & Internet of Things (AIoT) 多媒體導論	2 nd	1 st	3	3	0	
系專業選修學程18學分Department elective 18 credits		D.	Introduction to Multimedia 數位內容資訊安全	2 nd	2 nd	3	3	0	本系學程選修課 目,不得以通識教
業 選	數位	igital Co	Information Security 數位影像處理	3 rd	1 st	3	3	0	育課目之相同或類 似科目抵免。
修 學	內容	Digital Content Program	Digital Image Processing 人機介面	3 rd	2 nd	3	3	0	This department's elective courses cannot be
程 /e 18 c	學程	rograr	Human Machine Interface 電腦繪圖與動畫	4 th	1 st	3	3		substituted with identical or similar
學分		3	Computer Graphics and Animation 行動遊戲設計		 			0	courses in the standard curriculum.
			Mobile Game Design 電子電路	4 th	2 nd	3	3	0	
		Inte	Electronic Circuits 感測原理	2 nd	2 nd	3	3	0	
	智慧	Intelligent Electronic Program	Principle of Sensor 數位通訊	3 rd	1 st	3	3	0	
	電子	Electro	Digital Communications 網際網路實務	3 rd	1 st	3	3	0	
	學程	onic Pro	Internet Practice 無線網路	3 rd	2 nd	3	3	0	
	在)gram	Wireless Networking 智慧物聯網	4 th	1 st	3	3	0	
			Artificial Intelligence & Internet of Things (AIoT)	4 th	2 nd	3	3	0	
系			工程倫理暨資訊法律與服務 Engineering Ethic and Information Law and Services	2 nd -4 th	1 st \ 2 nd	3	3	0	
自由	Major electives		數位系統設計 Digital System Design	2 nd -4 th	1 st \ 2 nd	3	3	0	
選修	C	· Placti	工程數學 Engineering Mathematics	2 nd -4 th	1 st · 2 nd	3	3	0	
課程	5	VPS	資訊檢索 Information Retrieval	2 nd -4 th	1 st \ 2 nd	3	3	0	
			資料視覺化 Data Visualization	2 nd -4 th	1 st \ 2 nd	3	3	0	

類別 Category	科目名稱 Course Title	CEFR 等級		修課 學期 Semester	學分數 Credits	每週上 Hours pe 講授	er week 練習	備 註 Remarks
	雲端計算系統與實務 Practice of Cloud Computing System		Program 2 nd -4 th	1 st \ 2 nd	3	Lecture 3	Practice 0	
	產品設計與發展 Product Design and Development		2 nd -4 th	1 st 、2 nd	3	3	0	
	智慧型監控系統與實務 Intelligent Monitor System and Practice		2 nd -4 th	1 st \ 2 nd	3	3	0	
	資料探勘 Data Mining		2 nd -4 th	1 st \ 2 nd	3	3	0	
	計算機組織 Computer Organization		2 nd -4 th	1 st 、2 nd	3	3	0	
	智慧型終端設計基礎理論 Design Theorem of Smart End Device		2 nd -4 th	1 st \ 2 nd	3	3	0	
	串流平台技術 Streaming Platform Technology		2 nd -4 th	1 st \ 2 nd	3	3	0	
	行動資料儲存管理技術 Management Technology of Mobile Data Storage		2 nd -4 th	1 st 、2 nd	3	3	0	
	雲端服務平台整合應用 Integration and Application of Cloud Computing Platform		2 nd -4 th	1 st \ 2 nd	3	3	0	
	多媒體網路技術應用 Multimedia Network Technologies and Applicatio	n	2 nd -4 th	1 st 、 2 nd	3	3	0	
	HTML 5 Web APP 設計與開發 Design and Development of HTML 5 Web APPs		2 nd -4 th	1 st \ 2 nd	3	3	0	
	互動式多媒體設計 Interactive Multimedia Design		2 nd -4 th	1 st \ 2 nd	3	3	0	
	電子書標準及製作 E-Book Standards and Production		2 nd -4 th	1 st \ 2 nd	3	3	0	
	區塊鏈應用與實作 Blockchain Application and Implementation		2 nd -4 th	1 st · 2 nd	3	3	0	
	無人機程式設計 Drone Programming		2 nd -4 th	1 st \ 2 nd	3	3	0	

Note(註):

- 一、學生含通識課程應修畢 128 學分(含)以上始能畢業,其中含通識課程(必修語文課程、核心通識及通識選修) 30 學分,院基礎學程 12 學分、系核心學程 36 學分,餘不足 128 學分之學分數,需另修習「系專業選修學程」、「系自由選修課程」課程學分補足其不足學分數,始得畢業。 Students must complete 128 credits including the standard curriculum in order to graduate. The standard curriculum (language requirements, core curriculum, and standard curriculum electives) includes 30 credits. The school standard curriculum includes 12 credits and the completion of the "professional curriculum of department" of 36 credits are required. Students with less than 128 credits are required to take "department professional electives" or "major electives curriculum" to make up for credits required for graduation.
- 二、 通識教育開授科目,請參考本校通識教育中心之課程計畫與規定。
 For a list of standard curriculum courses, please refer to the school's standard curriculum education center's curriculum planning and regulations.
- 三、 有關國際生修習本校以全英語授課之博雅通識課程英語文能力規定,依語文教學研究發展中心 規劃辦法辦理。
 - International students enrolled in the university's standard liberal arts curriculum should follow the rules set by The Center for the Development of Language Teaching and Research.
- 四、 有關僑生、港澳生、陸生修習本校以全英語授課之博雅通識課程規定,比照國際生通識課程辦理。

About the rules of students from Hong Kong, Macau, China, and overseas Chinese students enrolled in the university's standard liberal arts curriculum will be the same as international student standard curriculums.

系所主管簽章: 學院院長簽章: 國際學院院長簽章:

Course Description

Fundamental Computer Programming (1)~(3) courses are focuses on training the computer programming (1)~(3) 生 基礎程式設計(一)~(三) 基礎程式設計(一)~(三) Advanced Computer Programming skill with several examples. Advanced Computer Programming (OOP) in Python. This course will demonstrate the programming the ODject-Oriented Programming (OOP) in Python. This course will demonstrate the OOP skill with several examples. The student must finish the team project before the end of course. Web base system Programming course is focus on training the skill of Web System Programming course is focus on training the skill of Web System Programming course will demonstrate both JAVA Programming and PHP Web System creation skills with several examples. The student must finish the team project before the end of course. This course includes basic skills for analyzing different types of data including images, video, voice, text and structural records. We learn concepts such as exploratory data analysis, statistical inferer and modeling, machine learning, and high dimensional data analysis. This course introduces the concepts and theories of fundamental machine learning approaches, including "Supervised Learning" and "Unsupervised Learning". To enhance the abilities to handle real applications, the students enrolled are requested to learn "Python" programming language in advance and have middle/final projects in groups with the data collected by their own. Big Data Information Processing This course gives hand-on practical experiences of handling the huge amount of textual data via Hadoop cluster. The techniques introduced in this
Programming (1)~(3) 基礎程式設計(一)~(三) Advanced Computer Programming in Python. This course will demonstrate the programming skill with several examples. Advanced Computer Programming course is focus on training the skill of Object-Oriented Programming (OOP) in Python. This course will demonstrate the OOP skill with several examples. The student must finish the team project before the end of course. Web base system Web based System Programming course is focus on training the skill of Web System development in PHP. This course will demonstrate both JAVA Programming and PHP Web System creation skills with several examples. The student must finish the team project before the end of course. Data Science
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大數據資料處理 course for handling these textual data including, (1) "How to collect data
from the web automatically via Web Robot? (2) How to use "MapReduce"
programming" to speed up computation? (3) "How to setup Windoop cluste
using general PCs?" and (4) How to have computation and storages in cloud
platform?"
Deep learning Deep learning is a branch of machine learning. It is an algorithm that uses
深度學習 artificial neural networks as a framework to characterize and learn data. So
far, several deep learning frameworks, such as deep neural networks,
convolutional neural networks and deep confidence networks, and recurrent
neural networks have been applied in computer vision, speech recognition,
natural language processing, audio recognition and bioinformatics. And
other fields have achieved excellent results. In this class, we will introduce
the basic algorithms and models of deep learning. Students will learn to use
1
TensorFlow to do their projects and develop their applications.
AI Cloud Computing Practice Cloud computing market has grown exponentially over the years and
AI雲端運算實務 is expected to grow at even faster pace. One other reason behind the
success of cloud computing is the flexibility it offers like,
Infrastructure as a service (IaaS), Software as a Service (SaaS) and
Platform as a Service (PaaS). AI enables machines to learn, think, act
and react like human beings. AI helps machines to analyze and learn
from the historical data, identify patterns and make real-time
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decisions. There are cloud machine learning platforms like Google
Cloud Machine Learning which combine machine learning with the
cloud. Students will understand Google Cloud Platform and its Cloud
AI services and explore the Google machine learning services.

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