

112學年度 第1學期 校內課程及Coursera平台課程對應清單

學院 College	系所名稱	系所 代碼	課程碼	課程名稱	必/ 選 修	負責教師	Coursera 對應課程		Coursera課程名稱 (Course Name)	開課單位 (University/Industry Partner Name)	連結網址 (Course URL)
文學院 College of Liberal Arts	外國語文學系 Department of Foreign Languages and Literature	B2	B23A900	高級寫作Advanced Writing	選修		Coursera 對應課程	1	Advanced Writing	University of California, Irvine	https://www.coursera.org/learn/advanced-writing
								2	Introduction to Research for Essay Writing	University of California, Irvine	https://www.coursera.org/learn/introduction-to-research-for-essay-writing
			B249500	商用英文English for Business and Entrepreneurship	選修		Coursera 對應課程	1	English for Business and Entrepreneurship	The University of Pennsylvania	https://www.coursera.org/learn/business
	B249600	職涯發展英文English for Career Development	選修		Coursera 對應課程	1	English for Career Development	University of California, Irvine	https://www.coursera.org/learn/careerdevelopment		
	歷史學系 Department of History	B3	B34C100	北國原住民聲音：從加拿大 到斯堪地那維亞	選修	董梵	Coursera 對應課程	1	Old Norse Mythology in the Sources	University of Colorado Boulder	https://www.coursera.org/learn/old-norse-mythology-sources
								2	Indigenous Canada	University of Alberta	https://www.coursera.org/learn/indigenous-canada
理學院 College of Science	化學系 Department of Chemistry	C3	C321000	藥物開發概論	選修	周鶴軒	Coursera 對應課程	1	Drug Commercialization	University of California San Diego	https://www.coursera.org/learn/drug-commercialization
								2	Drug Development	University of California San Diego	https://www.coursera.org/learn/drug-development
								3	Drug Discovery	University of California San Diego	https://www.coursera.org/learn/drug-discovery
	C321400	藥物使用和規範	選修	周鶴軒	Coursera 對應課程	1	Drugs, drug use, drug policy and health	University of Geneva	https://www.coursera.org/learn/drugs		
						2	Plastic electronics	École Polytechnique	https://www.coursera.org/learn/plastic-electronics		
	C321700	有機高分子與元件設計	選修	林峻毅	Coursera 對應課程	1	Organic Solar Cells - Theory and Practice	Technical University of Denmark (DTU)	https://www.coursera.org/learn/solar-cell		
						2	Plastic electronics	École Polytechnique	https://www.coursera.org/learn/plastic-electronics		
	物理學系 Department of Physics	C2	C233900	天體生物學：探索地外世界	選修	李君樂	Coursera 對應課程	1	ASTROBIOLOGY: EXPLORING OTHER WORLDS	The University of Arizona	https://www.coursera.org/learn/astrobiology-exploring-other-worlds
								1	ANALYZING THE UNIVERSE	Rutgers, the State University of New Jersey	https://www.coursera.org/learn/analyze
								1	DENSITY FUNCTIONAL THEORY	École Polytechnique (France)	https://www.coursera.org/learn/density-functional-theory
1								Transmission electron microscopy for materials science	École Polytechnique Fédérale de Lausanne(France)	https://www.coursera.org/learn/microscopy	
1								From the Big Bang to Dark Energy	The University of Tokyo	https://www.coursera.org/learn/big-bang	
企業管理學系 Department of Business Administration	H4	H423300	專業經理人必備商業英文	選修	林泰宇	Coursera 對應課程 (7.18更新)	1	Business English: Finance and Economics	Arizona State University	https://www.coursera.org/learn/finance-economics-english	
							2	Business English: Planning & Negotiating	University of Washington	https://www.coursera.org/learn/business-english-negotiating	
	H233600	資料處理	選修	許志仲	Coursera 對應課程	1	R Programming	Johns Hopkins University	https://www.coursera.org/learn/r-programming		
						1	Python and Pandas for Data Engineering	Duke University	https://www.coursera.org/learn/python-and-pandas-for-data-engineering-duke		
	統計學系 Department of Statistics	H2	H233900	作業研究	選修	鄭順林	Coursera 對應課程	1	Operations Research (1): Models and Applications	National Taiwan University	https://www.coursera.org/learn/operations-research-modeling
								2	Operations Research (2): Optimization Algorithms	National Taiwan University	https://www.coursera.org/learn/operations-research-algorithms
								3	Operations Research (3): Theory	National Taiwan University	https://www.coursera.org/learn/operations-research-theory
	區塊鏈與去中心化金融	選修	劉梧柏	Coursera 對應課程	1	Blockchain: Foundations and Use Cases	ConsenSys Academy	https://www.coursera.org/learn/blockchain-foundations-and-use-cases			
					2	Decentralized Finance (DeFi) Infrastructure	Duke University	https://www.coursera.org/learn/decentralized-finance-infrastructure-duke			
					3	Decentralized Finance (DeFi) Primitives	Duke University	https://www.coursera.org/learn/decentralized-finance-primitives-duke			
4					Decentralized Finance (DeFi) Deep Dive	Duke University	https://www.coursera.org/learn/decentralized-finance-deep-dive-duke				
5					Decentralized Finance (DeFi) Opportunities and Risks	Duke University	https://www.coursera.org/learn/decentralized-finance-opportunities-and-risk-duke				
會計學系 Department of Accountancy	H1	H122900	計算思維與商業分析	選修	吳思蓉	Coursera 對應課程	1	Problem Solving Using Computational Thinking	University of Michigan	https://www.coursera.org/learn/computhinking	
							2	Introduction to Business Analytics with R	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/business-analytics-r	
							3	Tools for Exploratory Data Analysis in Business	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/tools-exploratory-data-analysis-business	
							4	Applying Data Analytics in Accounting	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/applying-data-analytics-accounting	
	H123000	企業併購財務會計	選修	廖麗凱	Coursera 對應課程	1	Finance of Mergers and Acquisitions: Valuation and Pricing	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/mergers-acquisitions-valuation-pricing		
						2	Finance of Mergers and Acquisitions: Designing an M&A Deal	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/mergers-acquisitions-ma-deal		
						3	Accounting for Mergers and Acquisitions: Foundations	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/accounting-for-ma-1		
						4	Accounting for Mergers and Acquisitions: Advanced Topics	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/accounting-for-ma-2		
藥學系 Department of Pharmacology	I3	I323920	基礎免疫學(二) Fundamentals of Immunology (II)	選修	葉才明 徐麗君	Coursera 對應課程	1	Introduction to Chemistry: Reactions and Ratios	Duke University	https://www.coursera.org/learn/intro-chemistry	
							2	Introduction to Chemistry: Structures and Solutions	Duke University	https://www.coursera.org/learn/basic-chemistry	
							3	Chemistry	University of Kentucky	https://www.coursera.org/learn/chemistry-1	
	I324200	生物資訊與藥物開發 BIOINFORMATICS AND DRUG DISCOVERY	選修	張權發	Coursera 對應課程	1	Fundamentals of Immunology: Death by Friendly Fire	Rice University	https://www.coursera.org/learn/immunology-friendlyfire		
						2	Fundamentals of Immunology: Dueling with the Dark Side	Rice University	https://www.coursera.org/learn/fundamentals-of-immunology-four-dueling-with-the-dark-side		
						1	Bioinformatic Methods I	University of Toronto	https://www.coursera.org/learn/bioinformatics-methods-1		
2	Bioinformatic Methods II	University of Toronto	https://www.coursera.org/learn/bioinformatics-methods-2								
3	Drug Development	University of California San Diego	https://www.coursera.org/learn/drug-development								
4	Drug Discovery	University of California San Diego	https://www.coursera.org/learn/drug-discovery								

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工學院 College of Engineering	土木工程學系 Department of Civil Engineering	E6- 104	E634900	基礎數值計算方法與應用	選修	林冠中	Coursera 對應課程	1	Numerical Methods for Engineers	The Hong Kong University of Science and Technology	https://www.coursera.org/learn/numerical-methods-engineers
	水利及海洋工程學 系 Department of Hydraulic and Ocean Engineering	E8- 061	E817400	計算機概論	選修	陳佳林	Coursera 對應課程	1	Introduction to Programming with MATLAB	Vanderbilt University	https://www.coursera.org/learn/matlab
			E842400	氣候變遷與環境衝擊導論	選修	吳昶達	Coursera 對應課程	1	From Climate Science to Action	The World Bank Group	https://www.coursera.org/learn/climate-science
								2	Global Warming I: The Science and Modeling of Climate Change	The University of Chicago	https://www.coursera.org/learn/global-warming
	能源工程國際學士 學位學程 International Degree Program on Energy Engineering	F0	F021200	太陽能系統設計與理論 Solar Energy System Design and Theory	選修	吳志勇	Coursera 對應課程	1	Solar Energy System Design	The State University of New York	https://www.coursera.org/learn/solar-energy-system-design
								2	Organic Solar Cells - Theory and Practice	Technical University of Denmark (DTU)	https://www.coursera.org/learn/solar-cell
								3	Physics of silicon solar cells	École Polytechnique	https://www.coursera.org/learn/physics-silicon-solar-cells
	航空太空工程學系 Department of Aeronautics and Astronautics	F4	F433400	太空載具力學 Kinetics of spacecraft	選修	吳志勇	Coursera 對應課程	1	Kinematics: Describing the Motions of Spacecraft	University of Colorado Boulder	https://www.coursera.org/learn/spacecraft-dynamics-kinematics
								2	Advanced Capstone Spacecraft Dynamics and Control Project	University of Colorado Boulder	https://www.coursera.org/learn/advanced-capstone-spacecraft-dynamics-control-project
	資源工程學系 Department of Resources Engineering	E4	E422400	資料科學與卷積神經網路 Data science and Convolutional neural network	選修	吳泓昱	Coursera 對應課程	1	Data Visualization with Python	IBM Skills Network	https://www.coursera.org/learn/python-for-data-visualization
								2	Convolutional Neural Networks	DeepLearning.AI	https://www.coursera.org/learn/convolutional-neural-networks
								3	Python Project for Data Science	IBM Skills Network	https://www.coursera.org/learn/python-project-for-data-science
	環境工程學系 Department of Environmental	F5	F533300	Python在資料科學之應用	選修	張智華	Coursera 對應課程	1	Data Collection and Processing with Python	University of Michigan	https://www.coursera.org/learn/data-collection-processing-python
								2	Introduction to Data Science in Python	University of Michigan	https://www.coursera.org/learn/python-data-analysis
								3	Applied Plotting, Charting & Data Representation in Python	University of Michigan	https://www.coursera.org/learn/python-plotting
	F5	F533800	永續發展與系統思考	選修	林心恬	Coursera 對應課程	1	The Sustainable Development Goals – A global, transdisciplinary vision for the future	The University of Copenhagen	https://www.coursera.org/learn/global-sustainable-development	
							2	Working for a sustainable future: concepts and approaches	Lund University	https://www.coursera.org/learn/working-for-a-sustainable-future	
							3	Sustainability of Social- Ecological Systems: the Nexus between Water, Energy and Food	Lund University	https://www.coursera.org/learn/sustainability-social-ecological-systems	
	機械工程學系 Department of Mechanical Engineering	E1	E120800	3D列印與精層製造	選修	鍾俊輝	Coursera 對應課程	1	The 3D Printing Revolution	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/3d-printing-revolution
								2	3D Printing Applications	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/3d-printing-applications
								3	3D Printing Software	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/3d-printing-software
								4	3D Printing Hardware	University of Illinois at Urbana- Champaign	https://www.coursera.org/learn/3d-print-hardware
		E120900	物聯網程式設計入門	選修	鍾俊輝	Coursera 對應課程	1	Introduction to the Internet of Things and Embedded Systems	University of California, Irvine	https://www.coursera.org/learn/iot	
							2	The Arduino Platform and C Programming	University of California, Irvine	https://www.coursera.org/learn/arduino-platform	
3							Interfacing with the Arduino	University of California, Irvine	https://www.coursera.org/learn/interfacing-with-arduino		
4							The Raspberry Pi Platform and Python Programming for the Raspberry Pi	University of California, Irvine	https://www.coursera.org/learn/raspberry-pi-platform		
5							Interfacing with the Raspberry Pi	University of California, Irvine	https://www.coursera.org/learn/raspberry-pi-interface		
6							Programming for the Internet of Things Project	University of California, Irvine	https://www.coursera.org/learn/internet-of-things-project		
E121000		Python互動程式設計入門	選修	鍾俊輝	Coursera 對應課程	1	An Introduction to Interactive Programming in Python (Part 1)	Rice University	https://www.coursera.org/learn/interactive-python-1		
						2	An Introduction to Interactive Programming in Python (Part 2)	Rice University	https://www.coursera.org/learn/interactive-python-2		
E121100	Python資料分析入門	選修	鍾俊輝	Coursera 對應課程	1	Python Programming Essentials	Rice University	https://www.coursera.org/learn/python-programming			
					2	Python Data Representations	Rice University	https://www.coursera.org/learn/python-representation			
					3	Python Data Analysis	Rice University	https://www.coursera.org/learn/python-analysis			
					4	Python Data Visualization	Rice University	https://www.coursera.org/learn/python-visualization			

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社會科學院 College of Social Science	心理學系所 Department of Psychology	D8	D822900	日常生活中的道德議題 Moralities of everyday life	選修	胡中凡	Coursera 對應課程	1	Moralities of everyday life	Yale University	https://www.coursera.org/learn/moralities?	
									2	Ethics of Artificial Intelligence	Politecnico di Milano	https://tw.coursera.org/learn/ethics-of-artificial-intelligence
			D822800	改進你的統計推論力 Improving your statistical inferences	選修	胡中凡	Coursera 對應課程	1	Improving your statistical inferences	Eindhoven University of Technology	https://www.coursera.org/learn/statistical-inferences	
			D823000	R語言資料視覺化 Data Visualization in R	選修	胡中凡	Coursera 對應課程	1	Getting Started with Data Visualization in R	Johns Hopkins University	https://www.coursera.org/learn/jhu-getting-started-data-viz-r	
								2	Data Visualization in R with ggplot2	Johns Hopkins University	https://www.coursera.org/learn/jhu-data-visualization-r	
								3	Advanced Data Visualization with R	Johns Hopkins University	https://www.coursera.org/learn/jhu-advanced-data-visualization-r	
								4	Publishing Visualizations in R with Shiny and flexdashboard	Johns Hopkins University	https://www.coursera.org/learn/data-viz-shiny-dashboards	
								5	Data Visualization Capstone	Johns Hopkins University	https://www.coursera.org/learn/data-visualization-capstone	
	D823100	視知覺與大腦 Visual Perception and the Brain	選修	胡中凡	Coursera 對應課程	1	Visual Perception and the Brain	Duke University	https://www.coursera.org/learn/visual-perception			
						2	Visual Perception	Columbia University	https://www.coursera.org/learn/perception			
						3	The Brain and Space	Duke University	https://www.coursera.org/learn/human-brain			
	D837900	再想一想：(1)如何瞭解主張與(2)如何演繹的推理 Think Again: (I) How to understand arguments, and (II) How to reason deductively	選修	胡中凡	Coursera 對應課程	1	Think Again I: How to Understand Arguments	Duke University	https://www.coursera.org/learn/understanding-arguments?specialization=logic-critical-thinking-duke			
					2	Think Again II: How to Reason Deductively	Duke University	https://www.coursera.org/learn/deductive-reasoning?specialization=logic-critical-thinking-duke				
D823200	正向心理學理論與應用 Positive Psychology: Theories and Application	選修	胡中凡	Coursera 對應課程	1	Positive Psychology: Martin E. P. Seligman's Visionary Science	University of Pennsylvania	https://www.coursera.org/learn/positive-psychology-visionary-science				
					2	Positive Psychology: Applications and Interventions	University of Pennsylvania	https://www.coursera.org/learn/positive-psychology-applications				
					3	Positive Psychology: Character, Grit and Research Methods	University of Pennsylvania	https://www.coursera.org/learn/positive-psychology-methods				
D823300	大學生生存守則：身心健康的自我照顧 College Student Life 101: Mental and Physical Self-Care	選修	胡中凡	Coursera 對應課程	1	Life 101: Mental and Physical Self-Care	University of California, Irvine	https://www.coursera.org/learn/life101				
					2	The Arts and Science of Relationships: Understanding Human Needs	University of Toronto	https://www.coursera.org/learn/human-needs				
經濟學系所 Department of Economics	D5	D522500	Fundamentals of Climate Change Economics (氣候變遷經濟學導論)	選修	李繼宇	Coursera 對應課程	1	Doing Economics: Measuring Climate Change	University of London	https://www.coursera.org/learn/doing-economics-measuring-climate-change?		
							2	Greening the Economy: Lessons from Scandinavia	Lund University	https://www.coursera.org/learn/greening-the-economy		
							3	Introduction to Sustainability	University of Illinois at Urbana-Champaign	https://www.coursera.org/learn/sustainability		
電機資訊學院 College of Electrical Engineering & Computer Science	資訊工程學系所 Department of Computer Science and Information Engineering	F7	F724100	機器學習II: 非監督式學習	選修	許舒涵	Coursera 對應課程	1	Unsupervised Algorithms in Machine Learning	University of Colorado Boulder	https://www.coursera.org/learn/unsupervised-algorithms-in-machine-learning	
			F724200	集成卷積神經網路	選修	許舒涵	Coursera 對應課程	1	Convolutional Neural Networks	DeepLearning.AI	https://www.coursera.org/learn/convolutional-neural-networks	
			F724300	實驗設計與執行分析	選修	王士豪	Coursera 對應課程	1	Designing, Running, and Analyzing Experiments	University of California San Diego	https://www.coursera.org/learn/designexperiments	
			F724400	ANOVA實驗設計	選修	王士豪	Coursera 對應課程	1	ANOVA and Experimental Design	University of Colorado Boulder	https://www.coursera.org/learn/anova-and-experimental-design	
			F724500	運動科學之資料與模型	選修	王士豪	Coursera 對應課程	1	Foundations of Sports Analytics: Data, Representation, and Models in Sports	University of Michigan	https://www.coursera.org/learn/foundations-sports-analytics	
			F724700	應用TensorFlow 2客制化資料模型 II	選修	陳奇業	Coursera 對應課程	1	Probabilistic Deep Learning with TensorFlow 2	Imperial College London	https://www.coursera.org/learn/probabilistic-deep-learning-with-tensorflow2	
	電機工程學系所 Department of Electrical Engineering	E2	E236900	網路技術與應用	選修	蘇淑茵	Coursera 對應課程	1	The Bits and Bytes of Computer Networking	Google	https://www.coursera.org/learn/computer-networking	
								2	Smart Device & Mobile Emerging Technologies	Yonsei University	https://www.coursera.org/learn/smart-device-mobile-emerging-technologies	
								3	IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies	Yonsei University	https://www.coursera.org/learn/iot-wireless-cloud-computing	
			E237000	深度学习與應用	選修	蔡家齊	Coursera 對應課程	1	Neural Networks and Deep Learning	DeepLearning.AI	https://www.coursera.org/learn/neural-networks-deep-learning?specialization=deep-learning	
								2	Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization	DeepLearning.AI	https://www.coursera.org/learn/deep-neural-network?specialization=deep-learning	
								3	Structuring Machine Learning Projects	DeepLearning.AI	https://www.coursera.org/learn/machine-learning-projects?specialization=deep-learning	
生物科學與科技 學院 College of Bioscience and Biotechnology	生命科學系所 Department of Life Sciences	C5	C527200	了解大腦：日常生活的神經生物學	選修	何盧勳	Coursera 對應課程	1	Understanding the Brain: The Neurobiology of Everyday Life	The University of Chicago	https://www.coursera.org/learn/neurobiology	
			C527300	農業、經濟、與自然	選修	李亞夫	Coursera 對應課程	1	Agriculture, Economics and Nature	University of Western Australia	https://www.coursera.org/learn/agriculture-economics-nature	
	生物科技與產業科學系 Department of Biotechnology and Bioindustry Sciences	C6	C621800	基因與人類行為 Introduction to Human Behavioral Genetics	選修	王之彥	Coursera 對應課程	1	人類行為遺傳學概論 Introduction to Human Behavioral Genetics	University of Minnesota (明尼蘇達大學)	https://www.coursera.org/learn/behavioralgenetics	
			C633600	探索人體腸道微生物生態 Gut Check: Exploring Your Microbiome	選修	呂曉沛	Coursera 對應課程	1	腸道檢查:探索身體中的微生物群系 Gut Check: Exploring Your Microbiome	University of Colorado Boulder (科羅拉多大學波德分校)UC San Diego (加州大學聖地牙哥分校)	https://www.coursera.org/learn/microbiome	
非屬學院 Others	全校不分系學士學位學程 CollegeX	AN		人工智慧中的人因工程	選修	黃仲菁	Coursera 對應課程	1	Human Factors in AI	Duke University	https://www.coursera.org/learn/human-factors-in-artificial-intelligence	
				透視幸福的奧秘	選修	李孟學	Coursera 對應課程	1	The Science of Well-Being	Yale University	https://www.coursera.org/learn/the-science-of-well-being	
				輕鬆掌握論文寫作技巧	選修	劉家幸	Coursera 對應課程	1	Getting Started with Essay Writing	University of California, Irvine	https://www.coursera.org/learn/getting-started-with-essay-writing	