114學年度水資源及環境工程學系課程規畫表(114學年度人學新生適用) Department of Water Resources and Environmental Engineering Curriculum Planning Chart for 114 academic year (2025-2026) incoming freshmen

			第1	學年	第2	學年	第3學年		第4學年		備註 Remarks	
科目名稱 /subjects		學分 credits	1st academic ye				3rd acade	mic year 下		lemic year	1,9	TEL Remarks
		credits	上 1st semester	T 2nd semester	上 1st semester	2nd semester	1st semester	2nd semester	上 1st semester	2nd semester		
	外國語文學門(Q) Foreign Languagae (Field Q)	8	2	2	2	2					Required E	修、大2外文自由選 nglish in freshman /e foreign language ir year.
基本知能課程12學分 12 credits for general education curriculum	中國語文能力表達 ABILITY OF EXPRESSING IN SPOKEN AND WRITTEN CHINESE	2									語文表達 ABILITY OF EXPRESSING 學習與發展學門(N) Learning And Development (Field N) 課外活動與團隊發展 Extracuricular Activities and Team-Ship Development (Field	
	大學學習 LEARNING IN UNIVERSITY	1	1									
	社團學習與實作(K) LEARNING AND PRACTICE OF CLUBS	1		1								
通識核心課程12學分 12 credits for General Education Curriculum	人工智慧導論 INTRODUCTION TO ARTIFICIAL INTELLIGENCE	1	1									·
	探索永續 Exploring Sustainabiltiy	1	1									ī
	文學經典學門(L) Classics In World Literature (Field L)	2									人文領域	每學門至多修習2 科4學分 Students may take up to 2 courses (4 credits) in each academic field.
	歷史與文化學門(P) History And Culture (Field P)	2									credits in the Social Sciences	
	哲學與宗教學門(V)	2										
	Philosophy and Religion (Field V) 藝術欣賞與創作學門(M) Arts Appreciation and Invention	2										
	(Field M) 全球視野學門(T)	2										
	Global Outlook (Field T) 未來學學門®											
	Futures Studies (Field R)	2										
	社會分析學門(W) Social Analysis (Field W)	2										
	公民社會及參與學門(S) Civil Society And Participation (Field	2										
	資訊教育學門(O) Information & Computer Education (Field O) *商管學院學生請另詢所屬學系 Students of the College of Business Management, please consult your	2										
	respective departments. 全球科技革命學門(Z) Global Technology Revolution (Field Z)	2										
	自然科學學門(U) Natural Sciences (Field U)	2										
	體育 Physical Education	4	1	1	1	1					不計入畢業 Not counted credits.	美學分 d toward graduation
其他課程 other subjects	全民國防教育軍事訓練(一)-國 防科技 ALL-OUT DEFENSE EDUCATION MILITARY TRAINING(I)- NATIONAL DEFENSE TECHNOLOGY	0									1年級;單學期0學分 First-year, zero credits in a sin semester.	
校園與社區服務學習 CAMPUS AND COMMUNITY SERVICE-LEARNING		2	1	1							計入畢業學 Counted to credits.	星分 ward graduation
■本系必修課程:58學分 Required Courses:58 credits	普通物理 GENERAL PHYSICS	2	2									
	微積分 CALCULUS	3	3									
	環境化學 ENVIRONMENTAL CHEMISTRY	3	3									
	水資源及環境工程概論 INTRORODUCTION TO WATER RESOURCES AND ENVIRONMENTAL ENGINFERING	2	2									
	基礎工程數學 BASIC ENGINEERING MATHEMATICS	3		3								
	水文學	3		3								
	HYDROLOGY											

114學年度水資源及環境工程學系課程規畫表(114學年度人學新生適用) Department of Water Resources and Environmental Engineering Curriculum Planning Chart for 114 academic year (2025-2026) incoming freshmen

科目名稱 /subjects			第1學年		第2學年		第3學年		第4學年		備註 Remarks	
		學分 credits	1st academic year		2nd academic year		3rd academic year		4th academic year			
			上 1st	下 2nd	上 1st	下 2nd	上 1st	下 2nd	上 1st	下 2nd		
			semester	semester	semester	semester	semester	semester	semester	semester		
	水質實驗 WATER QUALITY ANALYSIS	1		1							實驗課程 Laboratory。	course
	工程數學	6			3	3					,	
	ENGINEERING MATHEMATICS	0			3	3						
	流體力學(一) FLUID MECHANICS(I)	3			3							
	工程統計 ENGINEERING STATISTICS	3			3							
	流體力學(二)	3				3						
	FLUID MECHANICS(II) 工程圖學											
	ENGINEERING GRAPHICS	2				2						
	給水工程 WATER SUPPLY ENGINEERING	3				3						
	明渠水力學	3					3					
	HYDRAULICS AND OPEN CHANNELS	3					3					
	污水工程 WASTEWATER ENGINEERING	3					3					
	土壤力學	3					3					
	SOIL MECHANICS	-									實驗細和	
	流體力學實驗 FLUID MECHANICS LAB.	1					1				實驗課程 Laboratory。	course
	數值方法	3						3				
	NUMERICAL METHOD 水資源工程											
	WATER-RESOURCES ENGINEERING	3						3				
	專題實作	2						2				
本系系選修課程:至少須修	PRACTICE OF PROJECTS 丁积經滅與							2				
	ENGINEERING ECONOMICS	2	2									
Department Elective Courses: A minimum of 16 credits must be	水環境生態學 WATERSHED ECOLOGY AND	2	2									
completed.	THE ENVIRONMENT											
附註:	工程材料學 ENGINEERING MATERIALS	2	2									
系選修課程之開設科目,將 依據本校規定可開課學分數	程式設計	2		2								
開課。不是每個科目都會開	PROGRAM DESIGN 環境微生物學											
課。	ENVIRONMENTAL MICROBIOLOGY	3		3								
N .	環境永續概論											
Note: The elective courses offered by	INTRODUCTION TO ENVIRONMENTAL	2		2								
the department will be arranged based on the number of credits	SUSTAINABILITY											
permitted under the university's	材料力學 STRENGTH OF MATERIALS	3			3							
regulations. Not all listed courses will necessarily be	水文測量與實習 PRACTICE & SURVEY OF	2			2							
offered.	HYDROLOGY	-			-							
	環境土壤學 ENVIRONMENTAL SOIL	2			2							
	SCIENCE 環境毒物學											
	医NVIRONMENTAL TOXICOLOGY	2			2							
	環境污染物分析(一) ENVIRONMENTAL ANALYSIS(I)	1			1						實驗課程 Laboratory。	course
	中等水文學	2				2						
	INTERMEDIATE HYDROLOGY	3				3						
	結構學 STRUCTURAL THEORY	2				2						
	環境生物技術概論 INTRODUCTION TO											
	ENVIRONMENTAL	2				2						
	BIOTECHNOLOGY 循環經濟	2				2						
	CIRCULAR ECONOMY	2				2						
	水利工程應用軟體 HYDRAULIC MODELING	2					2					
	SOFTWARES 鋼筋混凝土											
	REINFORCED CONCRETE	3					3					
	固體廢棄物 SOLID WASTES TREATMENT	3					3					
	環境儀器分析	2					2					
	ENVIRONMENTAL INSTRUMENTAL ANALYSIS	2					2					
		_	_	_	_		_	_	_			

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科目名稱 /subjects		第1學年		第2學年		第3學年		第4學年		備註 Remarks	
		1st academic year		2nd academic year		3rd academic year		4th academic year			
		上 1st semester	7 2nd semester	上 1st semester	7 2nd semester	上 1st semester	T 2nd semester	上 1st semester	7 2nd semester		
環境污染物分析(二) ENVIRONMENTAL ANALYSIS(II	1					1				實驗課程 Laboratory course	
水資源規劃 WATER RESOURCES PLANNING	3						3				
基礎工程 FOUNDATION ENGINEERING	3						3				
防洪工程 FLOOD ENGINEERING	2						2				
渠道水力學實驗 OPEN CHANNEL HYDRAULICS EXPERIMENTS	1						1			實驗課程 Laboratory	course
空氣污染控制 AIR POLLUTION CONTROL	3						3				
有害廢棄物 HAZARDOUS WASTE	2						2				
資源回收再利用 RESOURCE RECOVERY AND REUSE	2						2				
灌溉及排水工程 IRRIGATION AND DRAINAGE ENGINEERING	2							2			
環境規劃與管理 ENVIRONMENTAL PLANNING AND MANAGEMENT	3							3			
環工專業實務設計 PRACTICAL DESIGN IN ENVIRONMENTAL ENGINEERING FIELD	2							2			
污水工程設計 WASTEWATER ENGINEERING DESIGN	2							2			
地理資訊在工程上之應用 GIS AND ITS ENGINEERING APPLICATION□	2							2			
地下水及土壤污染 GROUNDWATER AND SOIL POLLUTION	3							3			
企業實習 PRACTICUM IN EDUCATIONAL TECHNOLOGY	2							2			
海岸工程 COASTAL ENGINEERING	3								3		
水土保持工程 SOIL AND WATER RESERVATION ENGINEERING	2								2		
企業永續管理 CORPROATE SUSTAINABLE MANAGEMENT	2								2		
噪音及振動 NOISE AND VIBRATION CONTROL	2								2		

- (1)必修科目總學分數:84學分(含通識教育課程26學分) (1)Total Credits for Required Courses: 84 credits (including 26 credits in General Education courses)
- (2)最低應修本系選修科目總學分數:16學分 (2)Minimum Credits Required for Departmental Elective Courses:16 credits
- (3)其他選修總學分數:28學分 (3)Minimum Number of Credits Required for Other Elective Courses:28credits

畢業總學分數:128學分 Total Number of Credits Required for Graduation: 128 credits