

113學年度水資源及環境工程學系課程規畫表(113學年度入學新生適用)
Department of Water Resources and Environmental Engineering
Curriculum Planning Chart for 113 academic year (2024-2025) incoming freshmen

科目名稱 /subjects		學分 credits	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	下 2nd semester	上 1st semester	下 2nd semester	上 1st semester	下 2nd semester	上 1st semester	下 2nd semester	上 1st semester	下 2nd semester	
	水質實驗 WATER QUALITY ANALYSIS	1		1								實驗課程 Laboratory course	
	工程數學 ENGINEERING MATHEMATICS	6			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) FLUID MECHANICS(II)	3				3							
	工程圖學 ENGINEERING GRAPHICS	2				2							
	給水工程 WATER SUPPLY ENGINEERING	3				3							
	明渠水力學 HYDRAULICS AND OPEN CHANNELS	3					3						
	污水工程 WASTEWATER ENGINEERING	3					3						
	土壤力學 SOIL MECHANICS	3					3						
	流體力學實驗 FLUID MECHANICS LAB.	1					1					實驗課程 Laboratory course	
	數值方法 NUMERICAL METHOD	3						3					
	水資源工程 WATER-RESOURCES ENGINEERING	3							3				
	專題實作 PRACTICE OF PROJECTS	2							2				
	■本系系選修課程：至少須修24學分以上。 Department Elective Courses: A minimum of 24 credits must be completed. 附註： 系選修課程之開設科目，將依據本校規定可開課學分數開課。不是每個科目都會開課。 Note: The elective courses offered by the department will be arranged based on the number of credits permitted under the university's regulations. Not all listed courses will necessarily be offered.	工程經濟學 ENGINEERING ECONOMICS	2	2									
		水環境生態學 WATERSHED ECOLOGY AND THE ENVIRONMENT	2	2									
工程材料學 ENGINEERING MATERIALS		2	2										
程式設計 PROGRAM DESIGN		2		2									
環境微生物學 ENVIRONMENTAL MICROBIOLOGY		3		3									
環境永續概論 INTRODUCTION TO ENVIRONMENTAL SUSTAINABILITY		2		2									
材料力學 STRENGTH OF MATERIALS		3			3								
水文測量與實習 PRACTICE & SURVEY OF HYDROLOGY		2			2								
環境土壤學 ENVIRONMENTAL SOIL SCIENCE		2			2								
環境毒物學 ENVIRONMENTAL 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 INTERMEDIATE HYDROLOGY		3				3							
結構學 STRUCTURAL THEORY		2				2							
環境生物技術概論 INTRODUCTION TO ENVIRONMENTAL BIOTECHNOLOGY		2				2							
循環經濟 CIRCULAR ECONOMY		2				2							
水利工程應用軟體 HYDRAULIC MODELING SOFTWARES		2					2						
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 ENVIRONMENTAL INSTRUMENTAL ANALYSIS	2					2							

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	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 CORPORATE 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：24學分

(2)Minimum Credits Required for Departmental Elective Courses: 24 credits

(3)其他選修總學分數：20學分

(3)Minimum Number of Credits Required for Other Elective Courses: 20 credits

畢業總學分數：128學分

Total Number of Credits Required for Graduation: 128 credits