	Juart	art for 111 academic 第1學年			g year (2022-202 第2學年		型 里 年	第4學年		Τ		
科目名稱 /subjects		學分	lst academic		2nd academic		3rd academic				備註 Remarks	
		credit s			year 上 下		year 上 下		year 上 下			
		5	lst semester	2nd semester	lst semester	2nd semester	lst semester	2nd semester	lst semester	2nd semester		
基本知能課程12學分 12 credits for general education curriculum	外國語文學門(Q) Foreign Languagae (Field Q)	8	2	2	2	2					Required 1 freshman	修、大2外又自田選 English in year; elective anguage in
	中國語文能力表達 ABILITY OF EXPRESSING IN SPOKEN AND WRITTEN CHINESE	2										F EXPRESSING
	大學學習 LEARNING IN UNIVERSITY	1	1								學習與發展 Learning (Field N)	長學門(N) And Development
	社團學習與實作(K) LEARNING AND PRACTICE OF CLUBS	1		1							Extracuri	卜活動與團隊發展 racuricular Activities Team-Ship Development eld K)
通識核心課程 <b>14</b> 學分 14 credits for General	AI與程式語言 AI and Programmiing Language	1	1									
Education Curriculum	探索永續 Exploring Sustainabiltiy	1	1									
	文學經典學門(L) Classics In World Literature (Field L)	2									人文領域	
	歷史與文化學門(P) History And Culture (Field P)	2									2 credits in the Social Sciences	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.
	哲學與宗教學門(V) Philosophy and Religion (Field V)	2										
	藝術欣賞與創作學門(M) Arts Appreciation and Invention (Field M)	2										
	全球視野學門(T) Global Outlook (Field T)	2										
	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 S)	2										
	<ul> <li>資訊教育學門(0)</li> <li>Information &amp; Computer</li> <li>Education (Field 0)</li> <li>*商管學院學生請另詞所屬學系</li> <li>Students of the College of</li> <li>Business Management, please</li> <li>consult your respective</li> <li>departments.</li> </ul>	2										
	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										
其他課程 other subjects	體育 Physical Education	0	0	0	0	0						
	全民國防教育軍事訓練(一)、全 民國防教育軍事訓練(一)/護理 (一) ALL-OUT DEFENSE EDUCATION MILLITARY TRAINING, ALL-OUT	0	0	0								
DEFENSE EDUCATION MILITARY TRAINING(1)/NURSING (1) 校園與社區服務學習 CAMPUS AND COMMUNITY SERVICE-LEARNING		0	0	0								
本系必修課程: 76學分 Required Courses: 76 credits	普通物理		-									
	GENERAL PHYSICS 微積分 CALCULUS	4	2 3	2								
	工程材料學 ENGINEERING MATERIALS	2	2								1	
	環境化學 ENVIRONMENTAL CHEMISTRY	2	2									
	水資源工程概論 INTRODUCTION OF WATER RESOURCES ENGINEERING	1	1									
	應用力學 APPLIED MECHANICS	3		3								

## 111學年度水資源及環境工程學系水資源工程組課程規畫表(111學年度入學新生適用) Division of Water Resources Engineering, Department of Water Resources and Environmental Engineering Curriculum Planning Chart for 111 academic year (2022-2023) incoming freshmen

	Curriculum Planning	Chart	-				-	_			
	科目名稱 /subjects			學年	第2學年		第3學年		第4學年		借計 Domo-1-2
科日名			1st academic year		2nd academic year		3rd academic year		4th academic year		備註 Remarks
			上 1st semester	下 2nd semester	上 lst semester	下 2nd semester	上 lst semester	下 2nd semester	上 1st semester	下 2nd semester	
	工程統計 ENGINEERING STATISTICS	3		3							
	程式設計	3		3							
	PROGRAM DESIGN 水文學			-							
	HYDROLOGY	3		3							
	工程數學 ENGINEERING MATHEMATICS	6			3	3					
	流體力學(一) FLUID MECHANICS(I)	3			3						
	材料力學 STRENGTH OF MATERIALS	3			3						
	STRENGTH OF MATERIALS 水文測量與實習 PRACTICE & SURVEY OF HYDROLOGY	2			2						
	結構學 STRUCTURAL THEORY	3				3					
	流體力學(二)	3				3					
	FLUID MECHANICS(II) 水環境	2				2					
	WATER ENVIRONMENT 流體力學實驗	Z				Z					實驗課程
	FLUID MECHANICS LAB.	1					1				Laboratory course
	數值方法 NUMERICAL METHOD	3					3				
	土壤力學 SOIL MECHANICS	3					3				
	明渠水力學 HYDRAULICS AND OPEN CHANNELS	3					3				
	專題實作 PRACTICE OF PROJECTS	2						2			
	海岸工程	3						3			
	COASTAL ENGINEERING 水資源工程(一)	3						3			
	WATER RESOURCES ENGINEERING(I) 渠道水力學實驗	3						5			
	OPEN CHANNEL HYDRAULICS EXPERIMENTS	1						1			實驗課程 Laboratory course
	水資源規劃 WATER RESOURCES PLANNING	3						3			
	防洪及排水工程 FLOOD CONTROL AND DRAINAGE ENGINEERING	3						3			
	地理資訊在工程上之應用 GIS AND ITS ENGINEERING	2						2			
本系系選修課程:至少須	APPLICATION 그 柱 17 전 14 頁 999 ENGINEERING MATERIALS	1		1							實驗課程
修10學分以上。         Department Elective         Courses: A minimum of 10         credits must be         completed.         附註:         条遷修課程之開設科目,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.	LINGINEERING MATERIALS 小質實驗			1							Laboratory course 實驗課程
	WATER QUALITY ANALYSIS	1			1						Laboratory course
	中等水文學 INTERMEDIATE HYDROLOGY	3				3					
	工程圖學 ENGINEERING GRAPHICS	2				2					
	專題實作導論 INTRODUCTION TO PRACTICE OF PROJECTS	1					1				
	地下水及土壤污染 GROUNDWATER AND SOIL POLLUTION	4					4				
	工程地質學	2					2				
	ENGINEERING GEOLOGY 基礎工程	3						3			
	FOUNDATION ENGINEERING 鋼筋混凝土							-			
	REINFORCED CONCRETE	3						3			
	水利工程應用軟體 HYDRAULIC MODELING SOFTWARES	3						3			
	給水工程 WATER SUPPLY ENGINEERING	3						3			這門課開設於水環系環境工程 組 This course is offered by the Division of Environmental Engineeriing, Department of Water Resources and

## 111學年度水資源及環境工程學系水資源工程組課程規畫表(111學年度入學新生適用) Division of Water Resources Engineering, Department of Water Resources and Environmental Engineering Curriculum Planning Chart for 111 academic year (2022-2023) incoming freshmen

## 111學年度水資源及環境工程學系水資源工程組課程規畫表(111學年度入學新生適用) Division of Water Resources Engineering, Department of Water Resources and Environmental Engineering Curriculum Planning Chart for 111 academic year (2022-2023) incoming freshmen

科目名稱 /subjects				第2學年 2nd academic year		第3學年 3rd academic year		第4學年 4th academic year		備註 Remarks									
											上 lst semester	下 2nd semester	上 lst semester	下 2nd semester	上 lst semester	下 2nd semester	上 lst semester	下 2nd semester	
											水資源工程(二) WATER RESOURCES ENGINEERING(II)	3							3
		污水工程 WASTEWATER ENGINEERING	3							3		這門課開設於水環系環境工程 組 This course is offered by the Division of Environmental Engineering, Department of Water Resources and							
灌溉及水資源系統分析 IRRIGATION AND WATER RESOURCES SYSTEM ANALYSIS	3							3											
企業實習 PRACTICUM IN EDUCATIONAL TECHNOLOGY	1							1											
水土保持工程 SOIL AND WATER RESERVATION ENGINEERING	2							2											
水利法規 HYDRAULIC REGULATIONS	2								2										

(1)必修科目總學分數:102學分(含通識教育課程26學分)
 (1)Total Credits for Required Courses: 102 credits (including 26 credits in General Education courses)

(2)最低應修本系還修科目總學分數:10學分 (2)Minimum Credits Required for Departmental Elective Courses: 10 redits

(3)其他選修總學分數:16學分

(3)Minimum Number of Credits Required for Other Elective Courses: 16 credits

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