

114 學年度系所課程地圖 Department Curriculum Map for Academic Year(s) 114

系所概要 Department	
系所名稱 Department Name	土木工程學系 Department of Civil Engineering
班別 Program	博士班 Doctoral Program

教育目標 Education Goals	
編號 Number	項目內容 Content
A	培育兼顧理論與實務能力之土木工程及科技人才。 To train students to have theoretical and practical capabilities in civil engineering and technology
B	培養學生具備團隊合作、國際視野與工程倫理之認知與能力。 To cultivate students with team-work competence, global vision and engineering ethics
C	強化防災與永續工程教育。 To enhance education in hazard mitigation and sustainable engineering

學生核心能力 Student Core Competencies		
編號 Number	項目內容 Content	對應教育目標編號 Corresponding Education Goal Number
A	土木工程計算、分析與設計能力。 Capability in computation and analysis for civil engineering theory	A
B	土木工程實務之分析、評估、設計、執行能力。 Capability in analysis, evaluation, design, and implementation for civil engineering practices	A、C
C	計畫管理、溝通、團隊合作、問題處理能力。 Capability in project management, communication, team work, and problem-solving	B
D	認識時事議題、瞭解土木工程人員之社會責任、重視工程與資訊倫理及培養持續學習之精神。 Acknowledgements in contemporary issues, societal responsibilities, engineering and information ethics, and continuing learning as civil engineers	B、C
E	結構工程、水利工程、大地工程、測量資訊、營建管理、土木防災、永續工程之專業知識 Professional knowledge in structural engineering, hydraulic engineering, geotechnical engineering, geomatics, construction management, hazard mitigation, and sustainable engineering	A、B
F	策劃、執行專題研究及撰寫專業論文之能力 Capability in the initiation and fulfillment of research proposals and writing professional theses	B、C

※附註 Note:

- 各系所所屬之班別，含學士班、碩士班、博士班等，請分別填寫。1. Complete the map separately for each division, including Bachelor's, Master's, and Doctoral program.
例如：資管學士班需填寫表二及表三；資管碩士班也須填寫表二及表三。For example, Forms 2 and 3 must be completed for Bachelor's program in Management Information Systems, and also for Master's program in for Bachelor's program in Management Information Systems.
- 教育目標及核心能力之代號皆以英文字母大寫為主。2. Codes for Education Goals and Core Competencies must be in uppercase English alphabet letters.
- 可依不同班（組）別填寫教育目標及核心能力。3. Education Goals and Core Competencies can be specific to the division in question.

承辦人簽章 Signature of Processing Clerk:

規劃單位主管簽章 Head of Planning Unit:

114 年 9 月 26 日 Date:2025/9/26

土木工程學系 Department of Civil Engineering ■ 博士班 Doctoral Program

課程規畫表 Curriculum Plan

中文課程名稱 Course Title in Chinese	英文課程名稱 Course Title in English	規劃要點 (附註) Plans (Notes)				對應核心能力編號 Corresponding Education Goal Number	建議修課年級 Recommended Year of Study	開課單位 Course Offering Unit	備註 Remarks
		1	2	3	4				
院核心課程(若無免填，請加註必修、選修) College Core Courses (not required if none, otherwise please indicate Required Courses and Elective Courses)									
必修課程 Required Courses									
結構工程專題討論	Seminar in Structural Engineering	D	C	S	0	ABCDEF		土木系 Department Of Civil Engineering	105 學年 更改學分數 105 change credits to 0
水利工程專題討論	Seminar in Hydraulic Engineering	D	C	S	0	ABCDEF		土木系 Department Of Civil Engineering	105 學年 更改學分數 105 change credits to 0
大地工程專題討論	Seminar in Geotechnical Engineering	D	C	S	0	ABEF		土木系 Department Of Civil Engineering	105 學年 更改學分數 105 change credits to 0
測量資訊專題討論	Seminar in Surveying Information Engineering	D	C	S	0	ABCDEF		土木系 Department Of Civil Engineering	105 學年 更改學分數 105 change credits to 0
博士論文	Dissertation	D	C	Y	12	EF		土木系 Department Of Civil Engineering	
選修課程 Elective Courses									
高等輸砂力學	Advanced Mechanics of Sediment Transport	D	A	S	3	ABE		土木系 Department Of Civil Engineering	
結構振動控制	Structural Vibration Control	D	A	S	3	ABCDEF		土木系 Department Of Civil Engineering	
滯洪水理特論	Hydraulic Characteristics of Detention	D	A	S	3	ABEF		土木系 Department Of Civil Engineering	
營建作業研究特論	Advanced Construction Operation Research	D	A	S	3	BF		土木系 Department Of Civil Engineering	
營建決策支援系統	Advanced Construction-Decision Support System	D	A	S	3	F		土木系 Department Of Civil Engineering	

※附註：規劃要點填表說明：(1 到 4 各欄位請填正確代表字母)

Note: Instructions for completing this form are provided below (please provide the correct English alphabet letters in fields 1 to 4)

- 1 : U-學士課程、M-碩士課程、D-博士課程。1: U-Bachelor's program, M-Master's program, D-Doctoral program.
- 2 : A-正課、B-實習課、C-台下指導之科目如學生講述或邀請演講之專題討論、專題研究.....等。2: A-Lecture, B-Internship, C-Subjects with private guidance such as student presentations or invited speeches, topic discussions, topic research, etc.
- 3 : S-學期課、Y-學年課。3: S-Semester course, Y-Year-long course.
- 4 : 科目 (全期或全年) 總學分數 (請填阿拉伯數字)。4: Total course (full-semester or full-year) credits (in Arabic numerals).

承辦人簽章 Signature of Processing Clerk:

規劃單位主管簽章 Head of Planning Unit:

114 年 9 月 26 日 Date:2025/9/26