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

| 科目名稱 /subjects | | gra /1 | 第1學年 1st academic year | | 第2學年 2nd academic year | | 第3學年 3rd academic year | | 第4學年 4th academic year | | 備註 Remarks | |
|--|---|---------------|---------------------------|------------|---|------------|---------------------------|----------|---------------------------|----------|---|---|
| | | 學分 credits | * | | 上 下 1st 2nd | | 上 下 1st 2nd | | 上 下 1st 2nd | | | |
| | 外國語文學門(Q) Foreign Languagae (Field Q) | 8 | semester 2 | semester 2 | semester 2 | semester 2 | semester | semester | semester | semester | 大1英文必修、大2外文自由: Required English in freshman year; elective foreign language sophomore year. 語文表達 ABILITY OF EXPRESSING | |
| 基本知能課程12學分 12 credits for general education | 中國語文能力表達 ABILITY OF EXPRESSING IN SPOKEN AND WRITTEN | 2 | | | | | | | | | | |
| curriculum | CHINIESE 大學學習 LEARNING IN UNIVERSITY | 1 | 1 | | | | | | | | _ | 科學門(N) nd Development |
| | 社團學習與實作(K) LEARNING AND PRACTICE OF CLUBS | 1 | | 1 | | | | | | | | 與團隊發展 lar Activities and Development (Field |
| 通識核心課程12學分 | AI與程式語言 AI and Programmiing Language | 1 | 1 | | | | | | | | ream simp | Development (Field |
| 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 | | | | | | | | | 至少2學分 At least 2 credits in | |
| l | 哲學與宗教學門(V) Philosophy and Religion (Field V) | 2 | | | | | | | | | the Humanitie | |
| | 藝術欣賞與創作學門(M) Arts Appreciation and Invention (Field M) | 2 | | | | | | | | | s field. | - |
| | 全球視野學門(T) Global Outlook (Field T) | 2 | | | | | | | | | 社會領域 至少2學分 | |
| | 未來學學門® Futures Studies (Field R) | 2 | | | | | | | | | 主ジュ字の At least 2 credits in | 每學門至多修習2 |
| | 社會分析學門(W) Social Analysis (Field W) | 2 | | | | | | | | | the Social Sciences | 科4學分 Students may tal up to 2 courses (4 |
| | 公民社會及多典字 (5) Civil Society And Participation (Field | on (Field 2 | | field. | up to 2 courses (4 credits) in each academic field. | | | | | | | |
| | 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 respective departments. | 2 | | | | | | | | | 科學領域 至少2學分 At least 2 credits in | |
| | 全球科技革命學門(Z) Global Technology Revolution (Field Z) | 2 | | | | | | | | | the Science field. | |
| | 自然科學學門(U) Natural Sciences (Field U) | 2 | | | | | | | | | | |
| | 體育 Physical Education 主氏國防教育單事訓練(一 / -國 | 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 | 防科技 ALL-OUT DEFENSE EDUCATION MILITARY TRAINING(I)- NATIONAL DEFENSE | 0 | | | | | | | | | 1年級;單 First-year; z semester. | 學期0學分 ero credits in a singl |
| 校園與社區服務學習 CAMPUS AND COMMUNITY | SERVICE-LEARNING | 2 | 1 | 1 | | | | | | | 不計入畢業 Not counted credits. | ♥學分 d toward graduation |
| ■本系必修課程:58學分 Required Courses:58 credits | 普通物理 GENERAL PHYSICS | 2 | 2 | | | | | | | | | |
| 1 12 23 23 24 | 微積分 CALCULUS | 3 | 3 | | | | | | | | | |
| | 環境化學 ENVIRONMENTAL CHEMISTRY | 3 | 3 | | | | | | | | | |
| | 小 頁源 及 環境 上 怪 慌 調 INTRORODUCTION TO WATER RESOURCES AND ENVIRONMENTAL | 2 | 2 | | | | | | | | | |
| | 基礎工程數學 BASIC ENGINEERING MATHEMATICS | 3 | | 3 | | | | | | | | |
| | 水文學 HYDROLOGY | 3 | | 3 | | | | | | | | |
| | 應用力學 APPLIED MECHANICS | 3 | | 3 | | | | | | | | |
| | 水質實驗 WATER QUALITY ANALYSIS | 1 | | 1 | | | | | | | 實驗課程 Laboratory | course |
| | 工程數學 ENGINEERING MATHEMATICS | 6 | | | 3 | 3 | | | | | | |

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| | | | 第1學年 第2學年 | | | 學年 | 第3學年 第4學年 | | | | | |
|---|--|---------|----------------|----------|---------------------------|----------|----------------|----------|----------------|----------|-------------------------|--------|
| 科目名稱 /subjects | | 學分 | | | 第2字牛 2nd academic year | | | | | | 備註 Remarks | |
| | | credits | 上 下 1st 2nd | | 上 下 1st 2nd | | 上 下 1st 2nd | | 上 下 1st 2nd | | | |
| | 流體力學(一) | 3 | semester | semester | semester 3 | semester | semester | semester | semester | semester | | |
| | FLUID MECHANICS(I) 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 | 3 | | | | 3 | | | | | | |
| | WATER SUPPLY ENGINEERING 明渠水力學 | | | | | | | | | | | |
| | HYDRAULICS AND OPEN CHANNELS | 3 | | | | | 3 | | | | | |
| | 污水工程 WASTEWATER ENGINEERING | 3 | | | | | 3 | | | | | |
| | 土壤力學 | 3 | | | | | 3 | | | | | |
| | SOIL MECHANICS 流體力學實驗 | | | | | | | | | | 實驗課程 | |
| | FLUID MECHANICS LAB. | 1 | | | | | 1 | | | | 且 数 成 在 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。 | 工程經濟學 ENGINEERING ECONOMICS | 2 | 2 | | | | | | | | | |
| minimum of 24 credits must be | WATERSHED ECOLOGY AND | 2 | 2 | | | | | | | | | |
| completed. | THE ENVIRONMENT 工程材料學 | | | | | | | | | | | |
| 附註: 系選修課程之開設科目,將 | ENGINEERING MATERIALS 程式設計 | 2 | 2 | | | | | | | | | |
| 依據本校規定可開課學分數 | PROGRAM DESIGN | 2 | | 2 | | | | | | | | |
| 開課。不是每個科目都會開 課。 | 環境微生物學 ENVIRONMENTAL MICROBIOLOGY | 3 | | 3 | | | | | | | | |
| Note: The elective courses offered by | 環境永續概論 INTRODUCTION TO ENVIRONMENTAL | 2 | | 2 | | | | | | | | |
| the department will be arranged based on the number of credits permitted under the university's | SUSTAINABILITY 材料力學 | 3 | | | 3 | | | | | | | |
| regulations. Not all listed | STRENGTH OF MATERIALS 水文測量與實習 | | | | | | | | | | | |
| courses will necessarily be offered. | PRACTICE & SURVEY OF HYDROLOGY | 2 | | | 2 | | | | | | | |
| | - 環境工場字 ENVIRONMENTAL SOIL | 2 | | | 2 | | | | | | | |
| | 環境毒物學 | 2 | | | 2 | | | | | | | |
| | ENVIRONMENTAL TOXICOLOGY 環境污染物分析(一) | | | | | | | | | | 實驗課程 | |
| | ENVIRONMENTAL ANALYSIS(I) | 1 | | | 1 | | | | | | Laboratory o | 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 | 2 | | | | 2 | | | | | | |
| | CIRCULAR ECONOMY 水利工程應用軟體 HYDRAULIC MODELING | 2 | | | | | 2 | | | | | |
| | SOFTWARES 鋼筋混凝土 | | | | | | | | | | | |
| | REINFORCED CONCRETE 固體廢棄物 | 3 | | | | | 3 | | | | | |
| | SOLID WASTES TREATMENT 環境儀器分析 ENVIRONMENTAL INSTRUMENTAL ANALYSIS | 2 | | | | | 2 | | | | | |
| | 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 | | | | |

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| 科目名稱 /subjects | | 第1學年 1st academic year | | 第2學年 2nd academic year | | 第3學年 3rd academic year | | 第4學年 4th academic year | | 備註 Remarks | |
|---|---|---------------------------|---|---------------------------|--|---------------------------|---|---------------------------|---|--------------------|--------|
| | | | | | | | | | | | |
| | | 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 SOIL AND WATER RESERVATION ENGINEERING | 2 | | | | | | _ | | 2 | | |
| 噪音及振動 NOISE AND VIBRATION CONTROL | 2 | | | | | | | | 2 | | |

(1)必修科目總學分數:82學分(含通識教育課程24學分) (1)Total Credits for Required Courses: 82 credits (including 24 credits in General Education courses)

(2)最低應修本系遷修科目總學分數:24學分 (2)Minimum Credits Required for Departmental Elective Courses: 24 credits

(3)其他選修總學分數:22學分 (3)Minimum Number of Credits Required for Other Elective Courses: 22 credits

畢業總學分數:128學分

Total Number of Credits Required for Graduation: 128 credits