中華大學土木工程學系111級學士班四年課程規劃表

Bachelor's Curriculum in Department of Civil Engineering For 2022

111.04.01 110學年度第2學期第3次系課規會議討論通過 Enacted at the 3rd Department Curriculum Committee of academic year 110, on April 01. 2022. 111.08.23 111學年度第1次院課規會議審議通過 Approved at the 1st College Curriculum Committee of academic year 111, on Auguest 23, 2022. 112.05.03 111學年度第3次從課投會議審議通過 Approved at the 3rd University Curriculum Committee academic year 111, on May 03, 2023.

第四學年 Senior 第一學年 Freshman 第二學年 Sophomore 第三學年 Junior 上學期 1st Semester 下學期 2nd Semester 學分數 課程名稱 Course 學分數 課程名稱 Course 學分數 課程名稱 Course 學分數 課程名稱 Course 學分數 學分數 學分數 學分數 課程名稱 Course 課程名稱 Course 課程名稱 Course 課程名稱 Course Cred 必修共同課程(28學分),包括英文課程(6學分)和通識課程(22學分)。 Obligatory Common Courses (28 Credits) including English Courses (6 Credits) and General Courses (22 Credits). 英文四 Freshman English (II) Sophomore English I Sophomore English II reshman English (I) eneral Courses General Courses 體育(一) 體育(二) 甬識 通識 0 0 4 4 Physical Education (I Physical Education (II) General Courses General Courses 通識 4 4 eneral Course General Courses 院核心必修課程(10學分) College Obligatory Courses (10 Credits) APP開發與應用 設計(一) 2 APP Design and Application Basic Design (I) 電腦繪圖(一) 電腦繪圖(二) 2 2 Computer Graphics (II) omputer Graphics (I) 數學與基礎必修課程(22學分) Math. and Fundamental Obligatory Courses (22 Credits) 微積分(一) 微積分(二) 工程數學(一) 工程數學(二) 2 Engineering Mathematics (II) Calculus (II) Ingineering Mathematics (I) 'alculus (I) 上木工程史 C程力學 材料力學 結構學 2 Engineering Mechanics Civil Engineering History trength of Materials Theory of Structures 工程材料試驗 Engineering Materials Test 科技物理 2 Technological Physics 工程專業必修課程(48學分) Civil Engineering Obligatory Courses (48 Credits) 畢業專題(一) 畢業專題(二) 程材料 測量學 工程地質 土壤力學 爾筋混凝土 Soil Mechanics teinforced Concrete Construction Methods onstruction materials Surveying Engineering Geology pecial Topics (I) pecial Topics (II) 流體力學 測量實習 **遊工程** 施工圖 建築資訊模型(一) Aultifunction Stracture Working Drawing Surveying Practice luid Mechanic oundation Engineering k文學 - 壤力學實驗 津築資訊模型(二) echnology for Disaster 2 2 Iydrology oil Mechanics Laboratory 十保持規劃設計 上木工程品質管制 **能工與施工實務** Quality Control of Civil Engineerin Supervisor in Construction Practices 營建管理 Construction management 工程專業選修課程(至少11學分) Civil Engineering Elective Courses (At least 11 Credits) · 續丁程概論 C程測量 吉櫹動力學 「程英文 **橋梁**丁程 鎦结構設計 預力混凝土設計 stroduction to Sustainable Design of Steel Structures Engineering English Engineering Surveying Structural Dynamics Prestressed Concrete Design Bridge Engineering 岩石力學與工程 C程倫理 L程測量實習 **持**掛師分析 建築抗震設計 水土保持工程 職業安全衛生法規 2 2 2 2 2 2 Engineering Surveying Practice Matrix Method of Structural Analysis Building Seismic Design noineering Ethics Soil and Water Cons Rock Mechanics and Engineering 綠色工程材料 管建法規 吉横安全評估 隊道工程 邊坡工程 **工程契約與爭議調解** 2 2 2 2 Green Construction Materials Building Codes Assessment of Structural Integrit Funnel Engineering Slope Engineering onstruction Contract and Dispute Resoluti 基格非破壞檢測科技應用與實務 全安全 建築資訊模型(三) 建築資訊模型(四) 建築資訊模型整合應用 2 Application and Practice of Nondestructive Construction Safety oduction to Building Info 程估價 吉横監検測實務 **惠**室管理概論 數值分析 **基案管理概論** Numerical Analysis Structural Monitoring Technolog troduction to Project Managemen onstruction Estimatin Introduction to Project Managemen 校定必選及跨域外系選修(9學分) Common Required selective Courses and Foreign Department Elecuive Courses (9 Credits) **於體驗微學分** 管實業 就業實習 ntercollege Micro Programs Employment Internshir Enterprise Internship 其他非土木系所開課程

備註(Notes):

- (1) 畢業規定128學分:包含校共同通識28學分、院核心必修10學分、數學與基礎必修22學分、工程專業必修48學分、工程專業選修至少11學分、及跨域外系選修9學分。跨域外系選修9學分,含「跨院體驗微學分」(外籍生及轉學生免修),但不含通識、體育、及軍訓課程。Graduation requirements are 128 credits: including 28 credits of common general studies, 10 credits of core compulsory courses, 22 credits of compulsory mathematics and basic courses, 48 credits of compulsory engineering majors, at least 11 credits of engineering electives, and 9 credits of cross-domain electives. 9 credits of elective courses from cross-domain external departments, including "Intercollege Micro Programs" (foreign students and transfer students are exempted), but not include general education, physical education, and military training courses.
- (2) 課程設計比例:院核心必修及數學與基礎必修課程(10+23)/128=25.78%、工程專業課程(48+11)/128=45.31%、跨域外系選修課程9/128=7.03%、通識課程28/128=21.88%。Curriculum design ratio: core compulsory courses in the college and compulsory mathematics and basic courses (10+23)/128=25.78%, engineering professional courses (48+11)/128=45.31%, cross-domain elective courses from external departments 9/128=7.03%, General courses 28/128=21.88%.

- (3) 依據本校「學生基本能力指標實施辦法」第四條規定,本系資訊應用課程為【APP開發與應用】,學生需符合「中華大學學生資訊應用能力檢定實施辦法」之規定通過檢核標準,始符合畢業資格。According to Article 4 of the "Implementation Measures for Student Basic Ability Indicators" of our school, the information application course of this department is [APP Design and Application]. Students must meet the provisions of the "Implementation Measures for Student Information Application Ability Test of Chung Hua University" and pass the verification standards. Eligible for graduation.
- (4) 依據本校「學生基本能力指標實施辦法」第四條規定,本系創新與創意基礎課程為【設計(一)】,【畢業專題(二)】為創新創意相關專題課程,學生需符合「中華大學創新與創意課程實施辦法」之規定通過檢核標準,始符合畢業資格。According to Article 4 of the "Implementation Measures for Basic Student Ability Indicators" of our school, the basic courses of innovation and creativity in this department are [Basic Design (I)] and [Special Topics (II)] are special courses related to innovation and creativity. Students must meet the requirements of "China University Only students who pass the inspection standards in accordance with the "Innovative and Creative Curriculum Implementation Measures" are eligible for graduation.
- (5) 須依據「中華大學學生基本能力指標實施辦法」、「中華大學建築與設計學院學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」、「中華大學生基本能力指標實施辦法」完成修業規定,始符合畢業資格。Students must complete the study requirements in accordance with the "Implementation Measures for the Basic Ability Indicators of Students of the Chung Hua University", and "Implementation Measures of the Basic Ability Indicators of Students of the Department of Civil Engineering of the Chung Hua University" to be eligible for graduation.
- (6) 取得本校核定之土木、建築相關B級以上專業證照乙張,始符合畢業資格。Only those who have obtained a B-level or above professional certificate related to civil engineering and construction approved by our school are eligible for graduation.
- (7) 以上課程資料,以當學期實際開課為主。The above course information is based on the actual courses offered in the current semester.