

I-SHOU UNIVERSITY Department of Civil Engineering

Curriculum for Master's Students Admitted in Academic Year 2021

*本系總畢業學分數為 38 學分，分下列三項：

Required Credits for Graduation: 38 Credits

1. 專業必修 14 學分 Required Professional Courses 14 Credits
2. 專業選修 24 學分 Elective Professional Courses 24 Credits
3. 總結性課程-碩士論文必修 0 學分 Thesis: required courses without credits (capstone courses) 0 Credit

備註 Note:

1. 專業選修 24 學分中，至多可選修外所課程 6 學分，此 6 學分選修課須經指導老師同意後，本系方承認為畢業學分。

1. Among the 24 credits of elective professional courses, a maximum of 6 credits can be taken from other colleges. The 6 credits of elective courses must be approved by the instructor, and the department will recognize them as graduation credits.

2. 課程規劃為配合學生需求，得增減開設課程。

2. Lesson Planning Lessons may be added or subtracted to meet student needs.

碩一課程表(110) First Year (2021)

| 類別 Category | 課程代碼 Code | 課程名稱 Subject | 上學期 Fall | 下學期 Spring | 必/選修 (C/E) | 備註 Remark |
|---|--|---|-------------|---------------|---------------|--------------|
| 專業必修 Required Professional Courses | M06011 | 專題討論(一) Special Topics Discussion (I) | 2 | | 必/ C | |
| | M06021 | 專題討論(二) Special Topics Discussion (II) | | 2 | 必/ C | |
| | M06M01 | 學術研究倫理 Research Ethics | | 0 | 必/ C | |
| 專業選修 Elective Professional Courses | M06706 | 高等工程數學 Advanced Engineering Mathematics | | 3 | 必/ C | |
| | M06432 | 結構動力學 Dynamics of Structures | | 3 | 必/ C | |
| | M06738 | 高等土壤力學 Advanced Soil Mechanics | | 3 | 必/ C | |
| | M06427 | 智慧運輸系統 Intelligent Transportation System | | 3 | | |
| | M06782 | 土木材料品質保證 Quality Assurance of Civil Engineering Materials | | 3 | | |
| | M06150 | 工程管理實務議題 Seminar On Engineering | | 3 | | |
| | M06414 | 永續與環境議題 Sustainable and Environmental Issues | | 3 | | |
| | M06146 | 高等流體力學 Advanced fluid mechanics | | 3 | | |
| | M06771 | 土木防災工程 Disaster Prevention in Civil Engineering | | 3 | | |
| | M06147 | 工程計算方法 Engineering computation | | 3 | | |
| | M06013 | 數據分析與統計方法 Data Analysis and Statistical Methods | | 3 | | |
| | M06148 | 研究方法論 Research methodology | | 3 | | |
| | M06713 | 彈性力學 Theory of Elasticity | | 3 | | |
| | M06436 | 有限元素法 Finite Element Method | | 3 | | |
| | M06714 | 高等基礎工程 Advanced Foundation Engineering | | 3 | | |
| | M06780 | 管理科學 Management Science | | 3 | | |
| | M06718 | 營建法規與案例分析 Construction Law and Case Study | | 3 | | |
| | M06722 | 水及廢水處理技術 Water and Wastewater Treatment | | 3 | | |
| | M06708 | 土壤及地下水整治 Soil and Ground Water | | 3 | | |
| | M06023 | 專案管理 Construction Project Management | | 3 | | |
| | M06729 | 高等鋼筋混凝土設計 Advanced Reinforced Concrete Design | | 3 | | |
| M06033 | 高等鋼結構設計 Advanced Steel Structural Design | | 3 | | | |
| M06795 | 結構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen | | 3 | | | |
| M06426 | 建築資訊模型 Building Information Modeling70 | | 3 | | | |
| M06149 | 工程經濟學 Engineering Economics | | 3 | | | |
| 本學年度必修學分數 Total Required credits for this year | | | | | 4 | |

碩二課程表(111) Second Year (2022)

| 類別 Category | 課程代碼 Code | 課程名稱 Subject | 上學期 Fall | 下學期 Spring | 必/選修 (C/E) | 備註 Remark |
|---|--------------|--|-------------|---------------|---------------|--------------|
| 專業必修 Required Professional Courses | M06031 | 論文指導(一) Thesis(I) | 3 | | 必/C | Core |
| | M06041 | 論文指導(二) Thesis(II) | | 3 | 必/C | Core |
| | M06761 | 專題討論(三) Special Topics Discussion(III) | 2 | | 必/C | Core |
| | M06762 | 專題討論(四) Special Topics Discussion(IV) | | 2 | 必/C | |
| | M06M00 | 碩士論文 Master Thesis | | 0 | 必/C | |
| | M06M01 | 學術研究倫理 Research Ethics | | 0 | 必/C | |
| 本學年度必修學分數 Total Required credits for this year | | | 10 | | | |

碩三課程表(112) Third Year (2023)

| 類別 Category | 課程代碼 Code | 課程名稱 Subject | 上學期 Fall | 下學期 Spring | 必/選修 (C/E) | 備註 Remark |
|---|--------------|---------------------|-------------|---------------|---------------|--------------|
| 專業選修 Elective Professional Courses | M06753 | 論文指導(三) Thesis(III) | | 1 | 選/E | |
| | M06754 | 論文指導(四) Thesis(IV) | | 1 | 選/E | |
| 本學年度必修學分數 Total Required credits for this year | | | 0 | | | |

碩四課程表(113) Fourth Year (2024)

| 類別 Category | 課程代碼 Code | 課程名稱 Subject | 上學期 Fall | 下學期 Spring | 必/選修 (C/E) | 備註 Remark |
|---|--------------|----------------------|-------------|---------------|---------------|--------------|
| 專業選修 Elective Professional Courses | M06755 | 論文指導(五) Thesis(V) | | 1 | 選/E | |
| | M06756 | 論文指導(六) Thesis(VI) | | 1 | 選/E | |
| | M06741 | 論文指導(七) Thesis(VII) | | 1 | 選/E | |
| | M06745 | 論文指導(八) Thesis(VIII) | | 1 | 選/E | |
| 本學年度必修學分數 Total Required credits for this year | | | 0 | | | |