

中臺科技大學大學部四年制日間部環境與安全衛生工程系107學年度入學課程標準表

107年01月16日系課程委員會修正通過
 107年03月29日院課程委員會修正通過
 107年04月11日校課程委員會修正通過
 107年12月13日系課程委員會通過
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 108年04月10日校課程委員會會議修訂通過

| 科目類別 | 科目名稱 | 學分數 | 時數 | 第一學年 | | 第二學年 | | 第三學年 | | 第四學年 | | 備註 | | | | | | | |
|---|---|-------------------------------|------------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|
| | | | | 上 | 下 | 上 | 下 | 上 | 下 | 上 | 下 | | | | | | | | |
| | | | | 授課 | 實習 | 授課 | 實習 | 授課 | 實習 | 授課 | 實習 | | | | | | | | |
| 基本素養 | 生活與服務 Life & Service | 0 | 0 | | | | 0 | | | | | | | | | | | | |
| | 大一英文(一) Freshman English (I) | 2 | 2 | 2 | | | | | | | | | | | | | | | |
| | 大一英文(二) Freshman English (II) | 2 | 2 | | 2 | | | | | | | | | | | | | | |
| | 文學與人生 Literature and Life | 2 | 2 | 2 | | | | | | | | | | | | | | | |
| | 普通物理學 General Physics | 2 | 2 | 2 | | | | | | | | | | | | | | | |
| | 資訊科技與應用 Information Technology and Application | 2 | 2 | | | 2 | | | | | | 電腦課程 | | | | | | | |
| | 文學領域 Literature Studies | 2 | 2 | | 2 | | | | | | | | | | | | | | |
| | 法律學概論 Introduction to Law | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| | 社會心理學 Social Psychology | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| | 普通生物學 General Biology | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| | 文化領域 Cultural Studies | 2 | 2 | | | | | | 2 | | | | | | | | | | |
| | 時間、空間、多元文化 Multi-cultures | 2 | 2 | | | | | 2 | | | | | | | | | | | |
| 實用生活美學 Life Aesthetics | 2 | 2 | | | | | | 2 | | | | | | | | | | | |
| 小計(1) | 24 | 24 | 6 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 軍訓與體育 | 全民國防教育軍事訓練-國防科技All-out Defense Education Military Training - Defense Technology | 0 | 2 | 2 | | | | | | | | | | | | | | | |
| | 體育(一) Physical Education (I) | 1 | 2 | 2 | | | | | | | | | | | | | | | |
| | 體育(二) Physical Education (II) | 1 | 2 | | 2 | | | | | | | | | | | | | | |
| | 體育(三) Physical Education (III) | 0 | 2 | | | 2 | | | | | | | | | | | | | |
| | 小計(2) | 2 | 8 | 4 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 通識教養教育小計(一)=小計(1)+(2)+(3) | | 26 | 32 | 10 | 0 | 6 | 0 | 6 | 0 | 4 | 0 | 2 | 0 | 4 | 0 | 0 | | | |
| 核心基礎 | 普通化學 General Chemistry | 3 | 3 | 3 | | | | | | | | | | | | | | | |
| | 化學實驗 General Chemistry Laboratory | 2 | 3 | | 3 | | | | | | | | | | | | | | |
| | 微積分 Calculus | 3 | 3 | 3 | | | | | | | | | | | | | | | |
| | 工程倫理 Engineering Ethics | 1 | 1 | 1 | | | | | | | | | | | | | | | |
| | 環境工程概論 Introduction to Environmental Engineering | 2 | 2 | 2 | | | | | | | | | | | | | | | |
| | 環境化學 Environmental Chemistry | 3 | 3 | | | 3 | | | | | | | | | | | | | |
| | 工業安全 Industrial Safety | 2 | 2 | 2 | | | | | | | | | | | | | | | |
| | 工業衛生 Industrial Hygiene | 2 | 2 | | 2 | | | | | | | | | | | | | | |
| | 噪音與振動 Noise and Vibration | 2 | 2 | 2 | | | | | | | | | | | | | | | |
| | 電工學 Electrical Engineering | 2 | 2 | | 2 | | | | | | | | | | | | | | |
| | 流體力學 Fluid Mechanics | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| | 統計學 Statistics | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| | 小計(3) | 26 | 27 | 13 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 專業必修 | 給水工程 Water Supply Engineering | 3 | 3 | | | | | 3 | | | | | | | | | | |
| 水質分析 Water and Wastewater Analysis | | 2 | 2 | | | | | 2 | | | | | | | | | | | |
| 水質分析實驗 Water and Wastewater Analysis Laboratory | | 2 | 4 | | | | | 4 | | | | | | | | | | | |
| 污水工程 Wastewater Engineering | | 3 | 3 | | | | | 3 | | | | | | | | | | | |
| 空氣污染控制 Air Pollution Control | | 3 | 3 | | | | | 3 | | | | | | | | | | | |
| 環境規劃管理 Environmental Planning and Management | | 2 | 2 | | | | | 2 | | | | | | | | | | | |
| 廢棄物處理與設計 Solid Waste Management | | 3 | 3 | | | | | | | 3 | | | | | | | | | |
| 環境污染物分析 Analysis of Environmental Pollutants | | 2 | 2 | | | | | | 2 | | | | | | | | | | |
| 環境保護法規 Law and Regulations of Environmental Protection | | 2 | 2 | | | | | | | 2 | | | | | | | | | |
| 電腦圖學與實作 Computer Aided Design and Graphing and Operating | | 2 | 4 | | 4 | | | | | | | 電腦課程 | | | | | | | |
| 職業安全衛生法規 Occupational Safety and Health Act | | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| 工業安全工程 Industrial Safety Engineering | | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| 工業安全管理 Industrial Safety Management | | 2 | 2 | | | | | | | 2 | | | | | | | | | |
| 工業通風 Industrial Ventilation | | 2 | 2 | | | | 2 | | | | | | | | | | | | |
| 作業環境測定 Monitoring of Working Environment | | 3 | 3 | | | | | 3 | | | | | | | | | | | |
| 人因工程 Ergonomics | | 2 | 2 | | | | | | 2 | | | | | | | | | | |
| 風險評估 Risk Assessment | | 2 | 2 | | | | | | 2 | | | | | | | | | | |
| 施工安全 Construction Safety | | 2 | 2 | | | | | | | 2 | | | | | | | | | |
| 衛生管理實務 Practice of Industrial Health Management | | 2 | 2 | | | | | | | 2 | | | | | | | | | |
| 專題研究與討論(一) Special Topics of Safety Health and Environmental Engineering(I) | | 0 | 1 | | | | 1 | | | | | | | | | | | | |
| 專題研究與討論(二) Special Topics of Safety Health and Environmental Engineering(II) | | 0 | 1 | | | | | 1 | | | | | | | | | | | |
| 書報討論 Seminar | | 0 | 1 | | | | | | | 1 | | | | | | | | | |
| 專題研究與討論(三) Special Topics of Safety Health and Environmental Engineering(III) | | 0 | 1 | | | | | | | 1 | | | | | | | | | |
| 實務實習(一) Practical Training(I) | | 2 | 4 | | | | | | | | 4 | 校外實習至少8週 | | | | | | | |
| 小計(4) | | 45 | 55 | 0 | 0 | 4 | 0 | 4 | 0 | 12 | 0 | 12 | 0 | 6 | 0 | 13 | 4 | 0 | 0 |
| 專業必修小計(二)=小計(3)+(4) | | 71 | 82 | 13 | 0 | 11 | 0 | 11 | 0 | 12 | 0 | 12 | 0 | 6 | 0 | 13 | 4 | 0 | 0 |
| 必修合計(A)=小計(一)+(二) | | 97 | 114 | 23 | 0 | 17 | 0 | 17 | 0 | 16 | 0 | 14 | 0 | 10 | 0 | 13 | 4 | 0 | 0 |

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|--|--|--|----|------|----|------|----|------|----|------|----------|---------------|----|---|----|---|----|----|
| | | | | 上 | 下 | 上 | 下 | 上 | 下 | 上 | 下 | | | | | | | |
| | | | | 授課 | 實習 | 授課 | 實習 | 授課 | 實習 | 授課 | 實習 | | | | | | | |
| 博學涵養 | 發展通識 Development of General Education | 2 | 2 | | | 2 | | | | | | | | | | | | |
| | 發展通識 Development of General Education | 2 | 2 | | | | 2 | | | | | | | | | | | |
| | 小計(5) | 4 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | | | | | | |
| 共同選修 | 儀器分析 Instrumental Analysis | 2 | 2 | | | | | 2 | | | | | | | | | | |
| | 儀器分析實驗 Instrumental Analysis Laboratory | 2 | 4 | | | | | 4 | | | | | | | | | | |
| | 能源科技 Energy Technology | 2 | 2 | | | 2 | | | | | | | | | | | | |
| | 質能均衡 Material and Energy Balance | 2 | 2 | | 2 | | | | | | | | | | | | | |
| | 水文學 Hydrology | 2 | 2 | | | | 2 | | | | | | | | | | | |
| | 有機化學 Organic Chemistry | 2 | 2 | | 2 | | | | | | | | | | | | | |
| | 專題實作(一) Special Topics Practice(I) | 0 | 1 | | | | 1 | | | | | | | | | | | |
| | 專題實作(二) Special Topics Practice(II) | 0 | 1 | | | | | 1 | | | | | | | | | | |
| | 專題實作(三) Special Topics Practice(III) | 0 | 1 | | | | | | 1 | | | | | | | | | |
| | 實務實習(二) Practical Training (II) | 10 | 20 | | | | | | | | | 20 校外實習18週 | | | | | | |
| | 製程安全 Process Safety | 2 | 2 | | | | | | 2 | | | | | | | | | |
| | 機械安全設計 Machine Safety Design | 2 | 2 | | | 2 | | | | | | | | | | | | |
| | 作業環境測定實驗 Monitoring of Working Environment Laboratory | 2 | 4 | | | | | 4 | | | | | | | | | | |
| | 火災學 Fire Dynamics | 2 | 2 | | | 2 | | | | | | | | | | | | |
| | 專業選修 | 環境微生物學 Environmental Microbiology | 2 | 2 | | | 2 | | | | | | | | | | | |
| | | 環境微生物學實驗 Environmental Microbiology Laboratory | 1 | 2 | | | 2 | | | | | | | | | | | |
| 分子生物學 Molecular Biology | | 2 | 2 | | | | 2 | | | | | | | | | | | |
| 分子生物學實驗 Molecular Biological Laboratory | | 1 | 2 | | | | 2 | | | | | | | | | | | |
| 地下水污染防治 Groundwater Pollution Abatement | | 2 | 2 | | | | | 2 | | | | | | | | | | |
| 環境工程單元操作 Unit Operations in Environmental Engineering | | 2 | 2 | | | | | | 2 | | | | | | | | | |
| 環境工程單元操作實驗 Unit Operations in Environmental Engineering Laboratory | | 1 | 2 | | | | | | 2 | | | | | | | | | |
| 低碳管理 low carbon management | | 2 | 2 | | | | | | 2 | | | | | | | | | |
| 環境影響評估 Environmental Impact Assessment | | 2 | 2 | | | | | | | | 2 | | | | | | | |
| 有害廢棄物管理 Hazardous Waste Management | | 2 | 2 | | | | | | | | 2 | | | | | | | |
| 安全衛生選修 | 安全衛生計畫書撰寫實作 Safety and Health Plan Practice | 1 | 2 | | | | | | | | | 2 | | | | | | |
| | 機械安全實作 Machine Safety Practice | 1 | 2 | | | | | 2 | | | | | | | | | | |
| | 施工架作業暨施工計畫書撰寫實作 Scaffold Set Up Practice and Construction Planning Exercises | 2 | 4 | | | | | | | 4 | | | | | | | | |
| | 化學品安全實作 Chemical Safety Practice | 2 | 4 | 4 | | | | | | | | | | | | | | |
| | 風險評估實作 Risk Assessment Practice | 1 | 2 | | | | | | 2 | | | | | | | | | |
| | 工業通風暨火災安全防護實作 Industrial Ventilation and Fire Safety Practice | 2 | 4 | | | | 4 | | | | | | | | | | | |
| | 電氣安全實作 Electrical Safety Practice | 1 | 2 | | 2 | | | | | | | | | | | | | |
| | 防火防爆 Fire and Explosion Prevention | 2 | 2 | | | 2 | | | | | | | | | | | | |
| | 勞動檢查實務 Practice of Workplace Inspection | 2 | 2 | | | | | | | | 2 | | | | | | | |
| | 消防法規 Law and Regulations of Fire Protection | 2 | 2 | | | | | | | | 2 | | | | | | | |
| 作業環境控制工程 Environmental Control for Working Place | 2 | 2 | | | | | | 2 | | | 內含「服務學習」 | | | | | | | |
| 小計(6) | 65 | 95 | 4 | 0 | 6 | 0 | 12 | 0 | 11 | 0 | 15 | 0 | 13 | 0 | 4 | 0 | 10 | 20 |
| 選修合計(B)=小計(5)+(6) | 69 | 99 | 4 | 0 | 6 | 0 | 14 | 0 | 13 | 0 | 15 | 0 | 13 | 0 | 4 | 0 | 10 | 20 |
| 開課合計=必修(A)+選修(B) | 166 | 213 | 27 | 0 | 23 | 0 | 31 | 0 | 29 | 0 | 29 | 0 | 23 | 0 | 17 | 4 | 10 | 20 |

畢業相關規定說明：

- 最低畢業學分為128學分，必修97學分【含基本素養24學分(文學領域與文化領域各2學分)、軍訓與體育2學分、專業必修71學分】，博學涵養4學分，選修至少27學分(其中專業選修至少21學分)。
- 開課學分數應符合每學期修課學分上下限規定：一、二年級每學期16~26學分；三、四年級10~26學分。
- 畢業前需取得本校「資訊能力」畢業資格審定暨實施要點所列之資訊相關證照，始得畢業。
- 有關英文能力畢業門檻之相關規定，依照「中臺科技大學大學部英(日)文畢業門檻實施要點」之規定辦理。
- 電腦課程須繳交電腦實習費。
- 畢業前需修完普通化學「General Chemistry」2學分、普通生物學「General Biology」2學分、統計學「Statistics」2學分三項健康科學院院定共同課程且及格，始得畢業。
- 在本校就學期間必須取得心肺復甦術(CPR)畢業門檻之相關規定，依照「中臺科技大學健康科學院心肺復甦術(CPR)證照畢業門檻實施要點」之相關規定辦理。
- 畢業前需取得「中臺科技大學環境與安全衛生工程系專業能力提升實施辦法」所列專業積分6分(含)以上，始得畢業。