

中臺科技大學大學部四年制進修推廣部 環境與安全衛生工程系103學年度入學課程標準表

103年03月06日系課程委員會通過
 103年03月13日院課程委員會通過
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 103年10月15日校課程委員會通過

| 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 & Life | 2 | 2 | 2 | | | | | | | | | | | | | |
| | 普通物理學 General Physics | 2 | 2 | 2 | | | | | | | | | | | | | |
| | 普通化學 General Chemistry | 2 | 2 | 2 | | | | | | | | | | | | | |
| | 人體與醫學 Human Body & Medicine | 2 | 2 | | 2 | | | | | | | | | | | | |
| | 資訊科技與應用 Information Technology and Application | 2 | 2 | | | 2 | | | | | | 電腦課程 | | | | | |
| | 應用語文 Applied Chinese | 2 | 2 | | 2 | | | | | | | | | | | | |
| | 法律學概論 An Introduction to Law | 2 | 2 | | 2 | | | | | | | | | | | | |
| | 社會行為學 The Study of Social Behavior | 2 | 2 | | | | | | | 2 | | | | | | | |
| | 普通生物學 General Biology | 2 | 2 | | | 2 | | | | | | | | | | | |
| | 生命關懷 Life Concerns | 2 | 2 | | | | | | | 2 | | | | | | | |
| | 時間、空間、多元文化 Time, Space & Multi-cultures | 2 | 2 | | | | | 2 | | | | | | | | | |
| 藝術欣賞 Art Appreciation | 2 | 2 | | | | | | 2 | | | | | | | | | |
| 小計(1) | 28 | 28 | 8 | 0 | 8 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | |
| 外語進階 | 大二英文(一) Sophomore English (I) | 2 | 2 | | | 2 | | | | | | | | | | | |
| | 大二英文(二) Sophomore English (II) | 2 | 2 | | | | 2 | | | | | | | | | | |
| | 小計(2) | 4 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 軍訓與體育 | 全民國防教育軍事訓練(一) All-out Defense Education Military Training (I) | 0 | 2 | 2 | | | | | | | | | | | | | |
| | 全民國防教育軍事訓練(二) All-out Defense Education Military Training (II) | 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 | | | | | | | | | | | |
| | 體育(四) Physical Education (IV) | 0 | 2 | | | | 2 | | | | | | | | | | |
| 小計(3) | 2 | 12 | 4 | 0 | 4 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 通識教育小計(一)=小計(1)+(2)+(3) | | 34 | 44 | 12 | 0 | 12 | 0 | 6 | 0 | 6 | 0 | 2 | 0 | 2 | 0 | 4 | 0 |
| 核心基礎 | 化學實驗 General Chemistry Laboratory | 1 | 2 | 2 | | | | | | | | | | | | | |
| | 進階化學 Advanced Chemistry | 2 | 2 | | 2 | | | | | | | | | | | | |
| | 環境工程概論 Introduction to Environmental Engineering | 2 | 2 | 2 | | | | | | | | | | | | | |
| | 工程倫理 Engineering Ethics | 1 | 1 | | | 1 | | | | | | | | | | | |
| | 工業安全 Industrial Safety | 2 | 2 | 2 | | | | | | | | | | | | | |
| | 噪音與振動 Noise and Vibration | 2 | 2 | | | | | 2 | | | | | | | | | |
| | 微積分 Calculus | 2 | 2 | 2 | | | | | | | | | | | | | |
| | 工業衛生 Industrial Hygiene | 2 | 2 | | 2 | | | | | | | | | | | | |
| | 環境化學 Environmental Chemistry | 3 | 3 | | | 3 | | | | | | | | | | | |
| | 統計學 Statistics | 2 | 2 | | | 2 | | | | | | | | | | | |
| | 流體力學 Fluid Mechanics | 2 | 2 | | | | 2 | | | | | | | | | | |
| | 小計(4) | 21 | 22 | 8 | 0 | 4 | 0 | 6 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | |
| | 專業必修 | 工業安全衛生法規 Law and Regulations of Industrial Safety and Health | 2 | 2 | | | 2 | | | | | | | | | | |
| | | 工業安全工程 Industrial Safety Engineering | 3 | 3 | | | 3 | | | | | | | | | | |
| 施工安全 Construction Safety | | 2 | 2 | | | | | | | 2 | | | | | | | |
| 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 | | 1 | 2 | | | | 2 | | | | | | | | | | |
| 電腦圖學與實作 Computer Aided Design and Graphing and Operating | | 2 | 3 | | | | 3 | | | | | 電腦課程 | | | | | |
| 污水工程 Wastewater Engineering | | 3 | 3 | | | | | | 3 | | | | | | | | |
| 空氣污染控制 Air Pollution Control | | 3 | 3 | | | | | | 3 | | | | | | | | |
| 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 | | | | | | | | |
| 作業環境測定實驗 Monitoring of Working Environment Laboratory | | 1 | 1 | | | | | | 1 | | | | | | | | |
| 作業環境控制工程 Environmental Control for Working Place | | 2 | 2 | | | | | | | 2 | | 合服務學習 | | | | | |
| 環境規劃管理 Environmental Planning and Management | | 2 | 2 | | | | | | | | 2 | | | | | | |
| 人因工程 Ergonomics | | 2 | 2 | | | | | | | | 2 | | | | | | |
| 風險評估 Risk Assessment | | 3 | 3 | | | | | | | 3 | | | | | | | |
| 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 | | | | | | | |
| 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 | | | | | | | | |
| 衛生管理實務 Practice of Industrial Health Management | | 2 | 2 | | | | | | | | 2 | | | | | | |
| 消防法規 Law and Regulations of Fire Protection | | 2 | 2 | | | | | | | | 2 | | | | | | |
| 專題研究 | 2 | 2 | | | | | | | | 2 | | | | | | | |
| 小計(5) | 49 | 53 | 0 | 0 | 0 | 0 | 5 | 0 | 8 | 0 | 10 | 0 | 13 | 0 | 15 | 0 | 2 |
| 專業必修小計(二)=小計(4)+(5) | | 70 | 75 | 8 | 0 | 4 | 0 | 11 | 0 | 10 | 0 | 12 | 0 | 13 | 0 | 15 | 0 |
| 必修合計(A)=小計(一)+(二) | | 104 | 119 | 20 | 0 | 16 | 0 | 17 | 0 | 16 | 0 | 14 | 0 | 15 | 0 | 19 | 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 | | | | | | | | | | | | |
| | 小計(6) | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | | | | | | | |
| 專業選修 | 有機化學 Organic Chemistry | 2 | 2 | | 2 | | | | | | | | | | | | | | |
| | 工程數學 Engineering Mathematics | 2 | 2 | | 2 | | | | | | | | | | | | | | |
| | 工程材料 Enginery materials | 2 | 2 | | | | | | | 2 | | | | | | | | | |
| | 質能均衡 Material and Energy Balance | 2 | 2 | | 2 | | | | | | | | | | | | | | |
| | 儀器分析 Instrumental Analysis | 2 | 2 | | | | | 2 | | | | | | | | | | | |
| | 儀器分析實驗 Instrumental Analysis Laboratory | 1 | 2 | | | | | 2 | | | | | | | | | | | |
| | 水文學 Hydrology | 2 | 2 | | | | 2 | | | | | | | | | | | | |
| | 能源科技 Energy Technology | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| | 高科技廠務實務 High-Technology plant pragmatic | 2 | 2 | | | | | | | 2 | | | | | | | | | |
| | 環境微生物學實驗 Environmental Microbiology Laboratory | 1 | 2 | | | | | 2 | | | | | | | | | | | |
| | 低碳管理 low carbon management | 2 | 2 | | | | | | 2 | | | | | | | | | | |
| | 環境工程單元操作實驗 Unit Operations in Environmental Engineering | 1 | 2 | | | | | | 2 | | | | | | | | | | |
| | 環境微生物學 Environmental Microbiology | 2 | 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 | | | | | | | | | | |
| | 環境影響評估 Environmental Impact Assessment | 2 | 2 | | | | | | | | 2 | | | | | | | | |
| | 有害廢棄物管理 Hazardous Waste Management | 2 | 2 | | | | | | | | 2 | | | | | | | | |
| | 環境保護法規 Law and Regulaions of Environmental Protection | 2 | 2 | | | | 2 | | | | | | | | | | | | |
| | 職業災變與救護 Occupational Disaster Preparedness | 2 | 2 | | | | | | | | | 2 | | | | | | | |
| | 製程安全 Process Safety | 2 | 2 | | | | | | 2 | | | | | | | | | | |
| | 生物性危害評估 Biological Hazard Assessment | 2 | 2 | | | | | | | | | 2 | | | | | | | |
| | 防火防爆 Fire and Explosion Engineering | 2 | 2 | | | 2 | | | | | | | | | | | | | |
| | 勞動檢查實務 Practice of Workplace Inspection | 2 | 2 | | | | | | | | | 2 | | | | | | | |
| 火災學 Fire Dynamics | 2 | 2 | | | | | | | | | 2 | | | | | | | | |
| | 小計(7) | 45 | 48 | 0 | 0 | 6 | 0 | 4 | 0 | 4 | 0 | 10 | 0 | 8 | 0 | 4 | 0 | 12 | 0 |
| 通識選修 | 全民國防教育軍事訓練(三)All-out Defense Education Military Training(III) | 1 | 2 | | | | | 2 | | | | | | | | | | | |
| | 全民國防教育軍事訓練(四)All-out Defense Education Military Training(IV) | 1 | 2 | | | | | | 2 | | | | | | | | | | |
| | 小計(8) | 2 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 選修合計(B)=小計(6)+(7)+(8) | 49 | 54 | 0 | 0 | 6 | 0 | 6 | 0 | 8 | 0 | 10 | 0 | 8 | 0 | 4 | 0 | 12 | 0 |
| | 開課合計=必修(A)+選修(B) | 153 | 173 | 20 | 0 | 22 | 0 | 23 | 0 | 24 | 0 | 24 | 0 | 23 | 0 | 23 | 0 | 14 | 0 |

畢業相關規定說明：

- 修業年限四年，最低畢業學分為128學分，必修總計104學分（含基本素養28學分、外語進階4學分、軍訓與體育2學分、專業必修70學分），選修至少24學分[其中專業選修至少16學分及博學涵養2學分]。
- 開課學分數應符合每學期修課學分上下限規定：一~四年級每學期8-26學分。
- 「通識選修-全民國防教育軍事訓練(三)、全民國防教育軍事訓練(四)」不列入畢業學分計算。
- 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。