中臺科技大學通識教育微學分課程簡介

Course Syllabus

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| 開課學期 | 107-1 | | 部別 | | 日間部 | |
| 開課系科 | 通識教育中心 | | 學制 | | 大學部（二技、四技） | |
| 課程名稱 | 氣色的科學遊戲 | | 授課教師 | | 徐惠麗 | |
| 課程類別 | □學理基礎 ▓應用實作  □跨領域探索  □其他：＿＿＿＿＿＿＿＿ | | 授課方式  （可複選） | | □授課□演講□參訪□工作坊  □遠距教學■實作研習營  □其他：＿＿＿＿＿＿＿ | |
| 學分數 | 0.4 | | 授課時間 | | □週五上午1-4節，  □週三下午5-8節，10.11週 | |
| 科目代碼 |  | | 請益時間 | |  | |
| 開課代號 |  | | 聯絡方式  （電子信箱或手機號碼） | |  | |
| 課程描述  Course Description | | | | | | |
| 化學變化常伴隨著顏色變化，且我們的環境遍佈著氣體，又日常生活中的食衣住行所接觸的物質與現象幾乎離不開科學，所以本課程藉由生活中的物質來進行有趣的科學遊戲，累積自己的知識寶藏。 | | | | | | |
| 課程目標  Course Objectives | | | | | | |
| 1.以生活取材，進行實作實驗，培養科學態度與素養。  2.藉由實際親手操作，培養實務操作能力，進而提升邏輯思考力、累積個人的知識寶庫。 | | | | | | |
| 授課進度  Course Schedule | | | | | | |
| 1.氣的科學遊戲：冷冷與暖暖包，可樂噴泉。  2.色的科學遊戲：彩虹糖水飲料，海底花園，色彩繽紛天然酸鹼指示劑。 | | | | | | |
| 教學方式  Teaching Method | | | | | | |
| 於生活取材，以”氣體” “顏色”為主軸，介紹相關的現象與學理，進行實作實驗。 | | | | | | |
| 學習評量方式與配分 Evaluation Methods & Ratio | | | | | | |
| □隨堂作業 \_\_\_\_\_\_ % ▓上課參與度 \_40\_\_\_\_ % ▓ 出席 \_20\_% □口頭報告 \_\_\_\_\_\_\_\_\_ %  ▓其他(請註明) \_實作成果\_\_40\_ % | | | | | | |
| 教科書(書名、作者、出版社、備註) Textbook (Title, Author, Publisher, Remarks ) | | | | | | |
| 書名 Title | | 作者 Author | | 出版社  Publisher | | 備註  Remarks |
| 自編教材 | | 徐惠麗 | |  | |  |
| 參考書目(書名、作者、出版社、期刊、備註) Reference Materials (Title, Author, Publisher/Journal, Remarks ) | | | | | | |
| 書名 Title | | 作者 Author | | 出版社/期刊  Publisher/  Journal | | 備註  Remarks |
| Penny老師教你創意玩科學 | | Penny老師陳乃綺 | | 麥田出版 | |  |
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Central Taiwan University of Science and Technology

General Education Micro Credit Course Syllabus

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| Academic Year/Semester | 107-1 | | Day/Night School | | Day | |
| Department | Center for General Education | | Program | | University department | |
| Course Title |  | | Instructor | |  | |
| Course type | □ Theoretical Foundation  □Application and Implementation  □ Interdisciplinary Learning  □ Other：＿＿＿＿＿＿＿＿ | | Teaching methods | | □ Teaching □ Speech □ Visit □ Workshop□ Distance Learning □ Practical Study Camp  □ Other： \_\_\_\_\_\_\_ | |
| Credit Hour | 0.4 | | Hour(s) | | □W5，Section 1-4，  □W3，Section 5-8，10th .11th week | |
| Course Code |  | | Advisory Time | |  | |
| Subject Code |  | | Email | |  | |
| Course Description | | | | | | |
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| Course Objectives | | | | | | |
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| Course Schedule | | | | | | |
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| Teaching Method | | | | | | |
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| Evaluation Methods & Ratio | | | | | | |
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| Textbook (Title, Author, Publisher, Remarks ) | | | | | | |
| Title | | Author | | Publisher | | Remarks |
|  | |  | |  | |  |
| Reference Materials (Title, Author, Publisher/Journal, Remarks ) | | | | | | |
| Title | | Author | | Publisher/  Journal | | Remarks |
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