

113 學年度第二專長學分學程－化工技術與應用 113 年 06 月 18 日修訂

Ming Chi University of Technology 「2024 SchoolYear」 Chemical Engineering
Technology and Applications Curriculum

Amended on June 18, 2024

| | 科目名稱 Course Name | 學分數/時 數 Credits/ Hours | 開課年級 Grade Level | 課程屬性 Course Attributes | 備註 Course Catalog Remarks |
|----|--|---------------------------------|-------------------------------------|------------------------------|------------------------------------|
| 1. | 計算機程式設計 (Computer Programming) | 3/3 | 一上 Grade 1 First Semester | 選修 Elective | |
| 2. | 材料科學導論 (Introduction to Material Science) | 3/3 | 一下 Grade 1 Second Semester | 選修 Elective | |
| 3. | 分析化學暨實驗 (Analytical Chemistry and Experiment) | 3/4 | 一下 Grade 1 Second Semester | 選修 Elective | |
| 4. | 高分子化學 (Polymer Chemisty) | 3/3 | 二上 Grade 2 First Semester | 選修 Elective | |
| 5. | 有機化學(I) (Organic ChemistyI) | 3/3 | 二上 Grade 2 First Semester | 選修 Elective | |
| 6. | 化工產業與人工智慧應用 (Chemical Engineering Industry and Artificial Intelligence Application) | 1/2 | 二下 Grade 2 Second Semester | 選修 Elective | |
| 7. | 儀器分析 (Instrumental Analysis) | 3/3 | 三上 Grade 3 First | 選修 Elective | |

| | | | Semester | | |
|----|--|-----|------------------------------------|----------------|--|
| 8. | 電化學 (Electrochemistry) | 3/3 | 三上 Grade 3 First Semester | 選修 Elective | |
| 9. | 奈米觸媒技術與應用 (Nanocatalytic Technology and Application) | 3/3 | 四上 Grade 4 First Semester | 選修 Elective | |
| 10 | 綠色化學技術暨實驗 (Green Chemistry Technology and Experiment) | 3/3 | 四下 Grade 4 Second Semeste | 選修 Elective | |

備註：

- 1、第二專長學分學程為化工技術與應用，至少修習 15 學分。
- 2、修畢第二專長學分學程者：最低畢業學分結構調整為共同必修 42 學分，通識選修至少 8 學分(五類型，任選四類各 2 學分)，核心必修 58 學分，模組選修 6 學分，專業選修 34 學分，合計 148 學分。
- 3、已修畢之第二專長學分學程外系學分，採計為系專業選修學分。

Course Catalog Remarks

1. Students are required to register at least 15 credits for the second major credit program in Chemical Engineering Technology and Applications.
2. Students who complete the second major credit program, the minimum graduation credit structure is adjusted to 42 credits for common required courses, at least 8 credits for general education electives (five categories, taking 2 credits from each of four categories), 58 credits for core required courses, 6 credits for module electives, and 34 credits of professional electives. Total 148 credits.
3. Students who complete the credits of the second major credit program from another department are counted as professional elective credits by this department.