

| 科目名稱<br>Course Title                              | 修別<br>Type | 學分<br>Credits | 一年級<br>Freshman |     | 二年級<br>Sophomore |     | 可供博士班下修<br>(請打勾)<br>Available for Ph.D.<br>Program (check) | 可供學士班上修<br>(請打勾)<br>Available for<br>Undergraduate (check) | 課程分類<br>Category                            | 備註<br>Remarks |
|---------------------------------------------------|------------|---------------|-----------------|-----|------------------|-----|------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|---------------|
|                                                   |            |               | 上               | 下   | 上                | 下   |                                                            |                                                            |                                             |               |
|                                                   |            |               | 1               | 2   | 1                | 2   |                                                            |                                                            |                                             |               |
| 分子醫學(Molecular medicine)                          | 必(R)       | 2.0           | 2.0             |     |                  |     |                                                            |                                                            | 院定必修(College Required Courses )             | 院級必修          |
| 專題討論(一)(Seminar (I))                              | 必(R)       | 1.0           | 1.0             |     |                  |     |                                                            |                                                            | 所定必修(Required Courses )                     |               |
| 藥物分析特論(Special topics on pharmaceutical analysis) | 必(R)       | 2.0           | 2.0             |     |                  |     |                                                            |                                                            | 所定必修(Required Courses )                     |               |
| 專題討論(二)(Seminar (II))                             | 必(R)       | 1.0           |                 | 1.0 |                  |     |                                                            |                                                            | 所定必修(Required Courses )                     |               |
| 企業實習(Internship)                                  | 必(R)       | 1.0           |                 |     | 1.0              |     |                                                            |                                                            | 所定必修(Required Courses )                     |               |
| 專題討論(三)(Seminar (III))                            | 必(R)       | 1.0           |                 |     | 1.0              |     |                                                            |                                                            | 所定必修(Required Courses )                     |               |
| 企業實習(Internship)                                  | 必(R)       | 1.0           |                 |     |                  | 1.0 |                                                            |                                                            | 所定必修(Required Courses )                     |               |
| 專題討論(四)(Seminar (IV))                             | 必(R)       | 1.0           |                 |     |                  | 1.0 |                                                            |                                                            | 所定必修(Required Courses )                     |               |
| 碩士論文(M. S. Thesis)                                | 必(R)       | 6.0           |                 |     |                  | 6.0 |                                                            |                                                            | 校定必修-論文(University Required Courses-Thesis) |               |
| 合計 必修總學分 (Requirement subtotal)                   |            | 16.0          | 5.0             | 1.0 | 2.0              | 8.0 |                                                            |                                                            |                                             |               |

- 校內注意事項

一、校級畢業規定  
(一)須完成修讀「實驗室安全」0學分及「研究倫理」0學分課程。  
(二)須通過校定碩士生英文能力鑑定標準，相關規定依本校「學生英文能力鑑定實施辦法」辦理。(外籍生免修)  
(三)教學助理訓練：碩士生須完成至少1學期之教學助理訓練。(外籍生免修)  
二、本學分表做為畢業應修課程學分之認定依據。
- Note of CMU

University requirement for graduation.  
(1)Students must take and pass the courses: Research Ethics(0 credit) and Laboratory Safety (0 credit).  
(2)According to the regulation of CMU Students’ English Proficiency Assessment, students must pass the English Proficiency requirement before graduation.  
(Foreign students excluded)  
(3)Teaching assistant training: All Master students must complete at least one semester of teaching assistant training.  
(Foreign students excluded)  
2.This list is used as the recognition basis of courses and credits required for graduation.

- 製藥碩士學位學程注意事項

1.113學年度入學生實施，最低畢業學分至少應修滿31學分，含必修10學分，選修15學分，碩士論文6學分。  
2.修業期間除修習本學程規定應修課程外，尚須完成下列校定課程之研修：  
(1)「實驗室安全」-校級必修0 學分。  
(2)「研究倫理」-校級必修0 學分。  
(3)「分子醫學」-院級必修2學分。  
3.修讀本學程者第1年於學校修課，第2年於產業實習並完成論文。  
4.畢業前須達本校英文能力鑑定標準，其標準依本校英文鑑定實施辦法辦理。  
5.本學分表做為畢業學分認定之依據。
- Note of Master's Program for Pharmaceutical Manufacture

This list is used as the recognition basis of courses and credits required for graduation.

單位主管簽章：

| 科目名稱<br>Course Title                                          | 修別<br>Type | 學分<br>Credits | 一年級      |        | 二年級       |        | 可供博士班下修<br>(請打勾)<br>Available for Ph.D.<br>Program (check) | 可供學士班上修<br>(請打勾)<br>Available for<br>Undergraduate (check) | 課程分類<br>Category                | 備註<br>Remarks |
|---------------------------------------------------------------|------------|---------------|----------|--------|-----------|--------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------|---------------|
|                                                               |            |               | Freshman |        | Sophomore |        |                                                            |                                                            |                                 |               |
|                                                               |            |               | 上<br>1   | 下<br>2 | 上<br>1    | 下<br>2 |                                                            |                                                            |                                 |               |
| 分析化學特論(Special topic on analytical chemistry)                 | 選(E)       | 2.0           | 2.0      |        |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 生物製藥特論(Lecture on biopharmaceutical research and development) | 選(E)       | 2.0           | 2.0      |        |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 植物藥特論(Special topics on herbal Medicines)                     | 選(E)       | 2.0           | 2.0      |        |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 藥事經營(Drug development and strategy)                           | 選(E)       | 2.0           | 2.0      |        |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 藥物生物資訊特論(Special topics on the biological drug information)   | 選(E)       | 2.0           | 2.0      |        |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 藥物學特論(Special topics on material medica)                      | 選(E)       | 2.0           | 2.0      |        |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 藥劑學特論(Specific topics on pharmaceuticals)                     | 選(E)       | 2.0           | 2.0      |        |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 法規及臨床試驗(Regulation and clinical trials)                       | 選(E)       | 2.0           |          | 2.0    |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 製藥工程技術特論(Pharmaceutical engineering special theory)           | 選(E)       | 2.0           |          | 2.0    |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 應用生物統計學(Applied biostatistics)                                | 選(E)       | 2.0           |          | 2.0    |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 藥物動力學特論(Special topics on pharmacokinetics)                   | 選(E)       | 3.0           |          | 3.0    |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 藥物劑型特論(Special topics on dosage-form design)                  | 選(E)       | 2.0           |          | 2.0    |           |        |                                                            |                                                            | 所定選修(Elective Courses )         |               |
| 藥品微生物學(Pharmaceutical microbiology)                           | 選(E)       | 1.0           |          | 1.0    |           |        |                                                            |                                                            | 院定必修(College Required Courses ) |               |
| 合計 選修總學分 (Elective subtotal)                                  |            | 26.0          | 14.0     | 12.0   |           |        |                                                            |                                                            |                                 |               |

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Note of Master's Program for Pharmaceutical Manufacture

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