

## 106 M.S. Program for the Faculty of Medicinal and Applied Chemistry

| Type of Course   | Courses                                       | Credits | 1 <sup>st</sup> Y<br>1 <sup>st</sup> S | 1 <sup>st</sup> Y<br>2 <sup>nd</sup> S | 2 <sup>nd</sup> Y<br>1 <sup>st</sup> S | 2 <sup>nd</sup> Y<br>2 <sup>nd</sup> S | Faculty           | note    |
|------------------|---|---------|--|--|--|--|-------------------|---------|
|                  | Behavior                                      |         |  |  |  |  |                   |         |
| Required courses | Seminar (Medicinal)                           | 4       | 1                                      | 1                                      | 1                                      | 1                                      | Chai-Lin Kao      | English |
|                  | Seminar (Medicinal)                           | 4       | 1                                      | 1                                      | 1                                      | 1                                      | Po-Yu Chen        | English |
|                  | Seminar (Applied)                             | 4       | 1                                      | 1                                      | 1                                      | 1                                      | Chih-Kuang Wang   | English |
|                  | Learning from Examples                        | 0       | 0                                      |  |  |  |                   |         |
|                  | The Principle Core Techniques in Life Science | 2       | 2                                      |  |  |  | Ruei-Nian Li      | English |
|                  | Special Lecture                               | 0       | 0                                      | 0                                      | 0                                      | 0                                      | Genin Gary Huang  |         |
|                  | Professional Practice in Chemistry            | 0       | 0                                      | 0                                      | 0                                      | 0                                      | Sodio C. N. Hsu   | English |
|                  | Thesis  | 6       |  |  |  |  |                   |         |
| Elective courses | Special Topics in Organic Chemistry (I)       | 2       | 2                                      |  |  |  | Cherng-Chyi Tzeng | English |
|                  | Special Topics in Organic Chemistry (II)      | 2       |  | 2                                      |  |  | Chai-Lin Kao      | English |
|                  | Special Topics in Inorganic Chemistry (I)     | 2       | 2                                      |  |  |  | Sodio C. N. Hsu   | English |
|                  | Special Topics in Inorganic Chemistry (II)    | 2       |  | 2                                      |  |  | Sodio C. N. Hsu   | English |
|                  | Special Topics in Physical Chemistry (I)      | 2       | 2                                      |  |  |  | Li-Fang Wang      | English |
|                  | Special Topics in Physical Chemistry (II)     | 2       |  | 2                                      |  |  | Li-Fang Wang      | English |
|                  | Special Topics in Instrumental Analysis (I)   | 2       | 2                                      |  |  |  | Tsai-Hui Duh      | English |
|                  | Special Topics in Instrumental Analysis (II)  | 2       |  | 2                                      |  |  | Po-Yu Chen        | English |
|                  | Special topics in Materials Chemistry (I)     | 2       | 2                                      |  |  |  | Chih-Kuang Wang   |         |
|                  | Special topics in Materials Chemistry (II)    | 2       |  | 2                                      |  |  | Chih-Kuang Wang   |         |
|                  | Special Topics in Medicinal Chemistry (I)     | 2       | 2                                      |  |  |  | Chai-Lin Kao      | English |
|                  | Special Topics in Medicinal Chemistry (II)    | 2       |  | 2                                      |  |  | Chai-Lin Kao      | English |
|                  | Special Topics in Biochemistry (I)            | 2       | 2                                      |  |  |  | Tzu-Pin Wang      |         |
|                  | Special Topics in Biochemistry (II)           | 2       |  | 2                                      |  |  | Tzu-Pin Wang      |         |
|                  | Special Topics in Polymer Chemistry           | 2       | 2                                      |  |  |  | Li-Fang Wang      |         |
|                  | Special Topics in Biomaterials                | 2       |  | 2                                      |  |  | Li-Fang Wang      |         |
|                  | Special Topics in Spectroscopy ( I )          | 2       | 2                                      |  |  |  | Yeh-Long Chen     |         |
|                  | Special Topics in Spectroscopy ( II )         | 2       |  | 2                                      |  |  | Yeh-Long Chen     |         |
|                  | Special Topics in Heterocyclochemistry ( I )  | 2       | 2                                      |  |  |  | Long-Chin Hwang   |         |
|                  | Special Topics in Heterocyclochemistry ( II ) | 2       |  | 2                                      |  |  | Long-Chin Hwang   |         |

|  |   |   |   |  |   |                            |         |
|--|---|---|---|--|---|----------------------------|---------|
| Special Topics in Bioorganic Chemistry ( I )       | 2 | 2 |   |  |   | Jeh-Jeng Wang              |         |
| Special Topics in Bioorganic Chemistry ( II )      | 2 |   | 2 |  |   | Jeh-Jeng Wang              |         |
| Special Topics in Protein Chemistry                | 2 | 2 |   |  |   | Tzu-Pin Wang               |         |
| Special Topics in Drug Synthesis (I)               | 2 | 2 |   |  |   | Yeh-Long Chen              |         |
| Special Topics in Drug Synthesis (II)              | 2 |   | 2 |  |   | Yeh-Long Chen              |         |
| Special Topics in Organometallic Chemistry         | 2 | 2 |   |  |   | Hsuan-Ying Chen            |         |
| Special Topic in Supramolecular Chemistry          | 2 |   | 2 |  |   | Sodio C. N. Hsu            |         |
| Special Topics in Bioinorganic Chemistry           | 2 | 2 |   |  |   | Sodio C. N. Hsu            | English |
| Special Topics in Electrochemistry                 | 2 | 2 |   |  |   | Po-Jui Huang<br>Po-Yu Chen |         |
| Special Topics in Mass Spectrometry                | 2 | 2 |   |  |   | Po-Jui Huang               |         |
| Special Topics in Biocatalytical Chemistry(I)      | 2 | 2 |   |  |   | Tzu-Pin Wang               |         |
| Special Topics in Biocatalytical Chemistry(II)     | 2 |   | 2 |  |   | Tzu-Pin Wang               |         |
| Special Topics in Pharmaceutical Analysis          | 2 |   | 2 |  |   | Tsai-Hui Duh               |         |
| Special Topics in frontier areas of chemistry (I)  | 2 | 2 |   |  |   | Wei-Yu Lin                 | English |
| Special Topics in frontier areas of chemistry (II) | 2 |   | 2 |  |   | Wei-Yu Lin                 | English |
| Special Topics in Organometallic Catalysts         | 2 |   | 2 |  |   | Hsuan-Ying Chen            |         |
| Introduction to Computational Chemistry            | 2 | 2 |   |  |   | Hsing-Yin Chen             |         |
| Special Topics in Academic Writing in Chemistry    | 2 |   |   |  | 2 | Hui-Fen Chen               | English |

**【Note】**

- Minimum credits required for a master degree student are 30 including 12 credits from required courses and 18 credits from elective courses. The 12 credits of required courses include 6 credits of "Dissertation of Master degree".
- The maximum limit for master student to select courses are 15 credits hours per semester.
- In each semester, students can also choose other department's courses or our department's PhD courses, but it should follow through the application process of our department. (Our department's website download form).
- Master degree students must to submit at least one of the following English proficiency pass test score prior to their final Master dissertation exam:
  - Scores for Test of English as a Foreign Language (TOEFL): TOEFL Institutional Testing Program (ITP)- 500 points (or above) or TOEFL Computer-Based Test (CBT)- 193 points (or above) or TOEFL Internet-Based Test (iBT)- 68 points (or above).
  - General English Proficiency Test (GEPT) passed with High-Intermediate level (First Stage).
  - Scores for Test of English for International Communication (TOEIC) passed with 600 points (or above).
  - Scores for International English Language Testing System (IELTS) passed with 5.5 points (or above).

\*Students are required to enroll the 'English Courses' and passed in the Center for Languages and Culture (KMU), if students failed to produce any one of the above English proficiency tests.
- Every student must to enroll and finish the exam held by 'Center for Taiwan Academic Research', and get the certificate prior to their Master dissertation exam.

(Y→ Year, S→ Semester)