

## Course Information – 2020 Spring Semester

[https://www.phys.sinica.edu.tw/TIGP-NANO/Course/2020\\_Spring.html](https://www.phys.sinica.edu.tw/TIGP-NANO/Course/2020_Spring.html)

### Course selection period

For **NTU** students –

※ Course selection: Jan 13-16, Jan 21-23

※ Add and Drop: Mar 2-14

my NTU (course selection):

<https://my.ntu.edu.tw/Default.aspx?lang=eng>

Course information: <https://nol.ntu.edu.tw/nol/guest/index.php>

For **NTHU** students –

※ Course selection: Jan 15-19

※ Add and Drop: Feb 26 - Mar 16

Course information:

<https://www.ccxp.nthu.edu.tw/ccxp/INQUIRE/JH/6/JH62.htm>

Personal (student) Login: <https://www.ccxp.nthu.edu.tw/ccxp/INQUIRE/>

English:

<https://www.ccxp.nthu.edu.tw/ccxp/INQUIRE/index.php?lang=english>

### Required courses

| 科目[學分數]                                          | 授課教授                                                                                               | 物理組     | 化學組       | 工程組        | 時間                              | 上課地點                                    |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------|---------|-----------|------------|---------------------------------|-----------------------------------------|
| Subject [credit]                                 | Lecturer                                                                                           | Physics | Chemistry | ESS        | Time & First class              | Classroom                               |
| 奈米科技進階 A [3]<br>Advanced Nanotechnology (A)<br>◎ | 莊天明、蘇維彬<br>李尚凡、溫昱傑<br>Chuang, Tien-Ming<br>Wen, Yu-Chieh<br>Su, Wei-Bin<br>Lee, Shang-Fan<br>(IoP) | 75648   |           | TIGP740201 | Wednesday<br>09:10-12:00<br>3/4 | 中研院物理所<br>P101 Meeting Room, IoP,<br>AS |
| 奈米科技進階 B [3]<br>Advanced Nanotechnology (B)<br>◎ | 董奕鍾、陳培菱<br>(應科中心)<br>Tung, Yi-Chung<br>Chen, Pei-Lin<br>(RCAS)                                     |         | 50459     | TIGP74020  | Friday<br>9:30-12:30<br>3/6     | 中研院物理所<br>P101 Meeting Room, IoP,<br>AS |

| 科目[學分數]                                                                                         | 授課教授                                                       | 物理組     | 化學組       | 工程組         | 時間                              | 上課地點                                    |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------|-----------|-------------|---------------------------------|-----------------------------------------|
| Subject [credit]                                                                                | Lecturer                                                   | Physics | Chemistry | ESS         | Time &<br>First class           | Classroom                               |
| 奈米尺度的量測、製作與操控<br>[3]<br>Characterization, Fabrication and<br>Manipulation at Nanometer<br>Scale | 張嘉升 (物理所)<br>Chang, Chia-Seng<br>(IoP)                     | 30084   | 30084     | TIGP740700  | Thursday<br>14:10-17:00<br>3/5  | 中研院物理所<br>P101 Meeting Room, IoP,<br>AS |
| 固態物理專題：進階與應用 [3]<br>Special Topics on Solid State<br>Physics: Advances and<br>Applications      | 林敏聰(台大物理)<br>Lin, Minn-Tsong<br>(NTU-Physics)              | 44091   |           | TIGP744300  | Friday<br>14:20-17:10<br>3/6    | 台大物理<br>618<br>Dept of Physics, NTU     |
| 高等分析化學 [3]<br>Advanced Analytical Chemistry                                                     | 陳玉如<br>(化學所)<br>Yu-Ju Chen<br>(IoC)                        |         | 54715     | TIGP 745700 | Thursday<br>09:10-12:00<br>3/5  | 中研院化學所<br>A507<br>IoC                   |
| 永續化學科技導論二 [3]<br>Introduction to Sustainable<br>Chemical Science and<br>Technology (II)         | 化學所<br>IoC                                                 |         | 24530     | TIGP724700  | Wednesday<br>09:00-12:00<br>3/4 | 中研院化學所<br>B105<br>IoC                   |
| 高等有機化學 [3]<br>Advanced Organic Chemistry                                                        | 李文山、俞聖法<br>(化學所)<br>Lee, Wen-Shan<br>Yu, Sheng-Fa<br>(IoC) |         | 21792     | TIGP745800  | Tuesday<br>09:10-12:00<br>3/3   | 中研院化學所<br>B105<br>IoC                   |

| 科目[學分數]                                                                             | 授課教授                                                                                                                                                                          | 物理組                                                              | 化學組       | 工程組        | 時間                                                      | 上課地點                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------|------------|---------------------------------------------------------|--------------------------------------------|
| Subject [credit]                                                                    | Lecturer                                                                                                                                                                      | Physics                                                          | Chemistry | ESS        | Time &<br>First class                                   | Classroom                                  |
| 高等物理化學二 [3]<br>Advanced Physical Chemistry<br>(II)                                  | 郭哲來、林倫年<br>(原分所)<br>Hayashi, Michitoshi<br>(CCMS)<br>Kuo, Jer-Lai<br>(IAMS)                                                                                                   |                                                                  | 38336     | TIGP727200 | Monday<br>9:10-10:00<br>Wednesday<br>10:10-12:00<br>3/2 | 台大化學<br>Room 121<br>Dept of Chemistry, NTU |
| 當代原子與分子物理導論 [3]<br>Introduction to Recent Trends in<br>Atomic and Molecular Physics | 林育如、林志民<br>林倫年、高橋開人<br>張銘顯、陳應誠<br>(原分所)<br>Yu-Ju Lin<br>Jim Jr-Min Lin<br>Michitoshi Hayashi<br>Kaito Takahashi<br>Ming-Shien Chang<br>Ying-Cheng Chen<br>Kopin Liu<br>(IAMS) | 95047                                                            | 95047     | TIGP723400 | Tuesday<br>09:10-12:00<br>3/3                           | 中研院原分所<br>R311<br>IAMS (in NTU)            |
| 專題討論[1]<br>Seminar◎                                                                 | Faculty Members                                                                                                                                                               | 1 <sup>st</sup> year:<br>68605<br>2 <sup>nd</sup> year:<br>17840 | 25966     | TIGP749200 | Wednesday<br>14:10-16:00<br>2/19                        | 中研院物理所<br>P101 Meeting Room, IoP,<br>AS    |

| 科目[學分數]                                                                     | 授課教授     | 物理組                                        | 化學組                                        | 工程組        | 時間                                                          | 上課地點                                |
|-----------------------------------------------------------------------------|----------|--------------------------------------------|--------------------------------------------|------------|-------------------------------------------------------------|-------------------------------------|
| Subject [credit]                                                            | Lecturer | Physics                                    | Chemistry                                  | ESS        | Time &<br>First class                                       | Classroom                           |
| 專題研究[1]<br>Research Training                                                | Advisor  |                                            | 76202                                      |            |                                                             | 中研院/LAB                             |
| 專題演講[0]<br>Colloquium                                                       |          |                                            |                                            | TIGP749400 |                                                             | 中研院                                 |
| 初級中文(下)<br>Basic Chinese (II)<br>(required course for all foreign students) | 華語教師     | Attending the class, and no need to select | Attending the class, and no need to select | TIGP719100 | Monday<br>9:00-12:00<br>3/2<br>Friday<br>14:00-17:00<br>3/6 | 中研院<br>Room 207<br>TIGP Building 2F |

| Time          | Mon                                            | Tue                                                                          | Wed                                                                             | Thu                                                                              | Fri                                                                             |
|---------------|------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 9:10 - 10:00  |                                                |                                                                              | Advanced Nanotechnology (A)<br>09:10-12:00                                      |                                                                                  |                                                                                 |
| 10:10 - 11:10 | Basic Chinese (II)<br>9:00-12:00               | Introduction to Recent Trends in Atomic and Molecular Physics<br>09:10-12:00 | Advanced Physical Chemistry (II)<br>10:20-12:10                                 | Advanced Analytical Chemistry<br>09:10-12:00                                     | Advanced Nanotechnology (B)<br>9:30-12:30                                       |
| 11:20 - 12:10 | Advanced Physical Chemistry (II)<br>9:10-10:00 | Advanced Organic Chemistry<br>09:10-12:00                                    | Introduction to Sustainable Chemical Science and Technology (II)<br>09:00-12:00 |                                                                                  |                                                                                 |
| 12:20 - 14:10 |                                                |                                                                              |                                                                                 |                                                                                  |                                                                                 |
| 14:20 - 15:10 |                                                |                                                                              | Seminar<br>14:10-16:00                                                          | Characterization, Fabrication and Manipulation at Nanometer Scale<br>14:10-17:00 | Special Topics on Solid State Physics: Advances and Applications<br>14:20-17:10 |
| 15:30 - 16:20 |                                                |                                                                              |                                                                                 |                                                                                  |                                                                                 |
| 16:30 - 17:20 |                                                |                                                                              |                                                                                 |                                                                                  | Basic Chinese (II)                                                              |

⊙ Offered by Nano Program

⊙ Offered by MST Program

⊙ Offered by SCST Program

⊙ Offered by TIGP