

Course selection period

For **NTU** students –

※ Course selection: Jan 19-21, Jan 26-27

※ **Add and Drop**: Feb 23- Mar 7 (6:00pm)

my NTU (course selection): <https://my.ntu.edu.tw/Default.aspx?lang=eng>

Course information: <https://course.ntu.edu.tw/en>

For **NTHU** students –

※ Course selection: Dec 22-24, Jan 5- 7, Jan 19-21

※ **Add and Drop**: Feb 23 - Mar 8

Course information:

<https://curricul.site.nthu.edu.tw/p/406-1208-291592,r1448.php?Lang=en>

Personal (student) Login:

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

**Courses Offered by the [NANO Program](#)**

⊙ **Required courses**

| Subject [credit]                                                                                                                     | Lecturer                                               | Curriculum Number( <b>Serial Number</b> )/ Code |                             |                          | Time<br><b>First class</b>             | Classroom                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|-----------------------------|--------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                      |                                                        | NTU Physics                                     | NTU<br>Chemistry            | NTHU ESS                 |                                        |                                                                                                                                                                                                       |
| 奈米科技進階 A [3]<br>Advanced Nanotechnology <b>A</b><br><b>Required courses</b><br><i>(for <b>PHYSICS</b> background students)</i>       | 柯忠廷<br>Chung-Ting Ke<br>(IoP)                          | ⊙<br>Phys8099_01<br>(17958)                     |                             | ⊙<br>11420<br>TIGP740201 | Wednesday<br>9:10-12:00<br><b>2/25</b> | 中研院物理所<br>P101, IoP                                                                                                                                                                                   |
| 奈米科技進階 B [3]<br>Advanced Nanotechnology <b>B</b><br><b>Required courses</b><br><i>(for <b>CHEMISTRY/BIO</b> background students)</i> | 陳培菱、董奕<br>鍾<br>Pei-Lin Chen<br>Yi-Chung Tung<br>(RCAS) |                                                 | ⊙<br>Phys8099_02<br>(49074) | ⊙<br>11420<br>TIGP740202 | Friday<br>9:30-12:30<br><b>3/6</b>     | 中研院跨領域大樓<br>C101,<br>Interdisciplinary<br>Research Building<br>for Science and<br>Technology, AS<br>(3/20.4/24 -4B05,<br>Interdisciplinary<br>Research Building<br>for Science and<br>Technology, AS) |

| Subject [credit]                                                            | Lecturer                             | Curriculum Number(Serial Number)/ Code                            |                          |                          | Time<br>First class                     | Classroom                          |
|-----------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------|--------------------------|--------------------------|-----------------------------------------|------------------------------------|
|                                                                             |                                      | NTU Physics                                                       | NTU<br>Chemistry         | NTHU ESS                 |                                         |                                    |
| (NTU)高等專題討論二<br>(NTHU)書報討論 [1]<br>Seminar II [1]<br><b>Required courses</b> | Nano<br>Faculty<br>Members           | ⊙<br>1st year:<br>Phys8064(25144)<br>2nd year:<br>Phys8073(48176) |                          | ⊙<br>11420<br>TIGP749200 | Wednesday<br>14:10-16:00<br><b>2/25</b> | 中研院物理所<br>P101, IoP                |
| 專題研究 [1]<br>Research Training [1]<br><b>Required courses</b>                | Advisor                              |                                                                   | ⊙<br>Chem8048<br>(28963) |                          | No class<br>schedule<br>required        |                                    |
| 專題演講 [0]<br>Colloquium [0]<br><b>Required courses</b>                       | 溫昱傑<br>Yu-Chieh Wen<br>(IoP)         |                                                                   |                          | ⊙<br>11420<br>TIGP749400 | No class<br>schedule<br>required        |                                    |
| 應用光學 [3]<br>Applied Optics [3]                                              | 林宮玄<br>Kung-Hsuan Lin<br>(IoP)       | Phys8130<br>(25632)                                               |                          | 11420<br>TIGP741300      | Monday<br>18:00-21:00<br><b>2/23</b>    | 中研院物理所<br>P101, IoP                |
| 尖端材料之基礎與應用 [3]<br>Advanced Materials: Fundamentals<br>and Applications [3]  | 林麗瓊<br>Li-Chyong Chen<br>(Phys, NTU) | Phys8150<br>(35985)                                               |                          | 11420<br>TIGP748600      | Monday<br>9:10-12:10<br><b>2/23</b>     | 台大凝態中心<br>212 室<br>R212, CCMS, NTU |

| Subject [credit]                                                                              | Lecturer                      | Curriculum Number(Serial Number)/ Code |               |                     | Time<br>First class            | Classroom                                                                                                                                                                                                          |
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|                                                                                               |                               | NTU Physics                            | NTU Chemistry | NTHU ESS            |                                |                                                                                                                                                                                                                    |
| 現代晶體成長與量子材料合成方法 [3]<br>Modern Approaches to Crystal Growth and Quantum Material Synthesis [3] | 雷曼<br>Sankar Raman<br>(IoP)   | Phys8166<br>(45227)                    |               | 11420<br>TIGP748500 | Tuesday<br>14:10-17:00<br>2/24 | 中研院物理所<br>P101, IoP                                                                                                                                                                                                |
| 人工智慧與奈米科技 [3]<br>Artificial Intelligence and Advanced Nanotechnology [3]<br>新課                | 包淳偉<br>Chun-Wei Pao<br>(RCAS) | Phys8167<br>(29794)                    |               | 11420<br>TIGP741400 | Friday<br>14:10-17:00<br>3/6   | 中研院跨領域大樓<br>C101,<br>Interdisciplinary<br>Research Building<br>for Science and<br>Technology, AS<br>(3/6.3/20.4/24.5/22 -<br>4B05,<br>Interdisciplinary<br>Research Building<br>for Science and<br>Technology, AS) |

**Courses Offered by the MST, the SCST and other TIGP Programs**

| Subject [credit]                                                                                                                                                                                        | Lecturer                      | Course Serial Number / Code |               |                     | Time<br>First class         | Classroom                 |
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|                                                                                                                                                                                                         |                               | NTU Physics                 | NTU Chemistry | NTHU ESS            |                             |                           |
| MST 量子材料的對稱性與電子結構 [3]<br>Symmetry and Electronic Structure in Quantum Materials: From Tight-Binding to Spintronics [3]<br><i>(The course will be offered only if at least three students enroll)</i> 新課 | Dah-Yen Yang<br>楊大衍<br>(IAMS) | MST8019<br>(19907)          |               | 11420<br>TIGP727600 | Friday<br>9:10~12:00<br>3/6 | 中研院原分所<br>R311, IAMS, NTU |

| Subject [credit]                                                                                                                                                   | Lecturer                                              | Course Serial Number / Code                    |                     |                     | Time<br>First class                                               | Classroom                           |
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|                                                                                                                                                                    |                                                       | NTU<br>Physics                                 | NTU<br>Chemistry    | NTHU ESS            |                                                                   |                                     |
| SCST 高等有機化學一 [3]<br>Advanced Organic Chemistry [3]                                                                                                                 | 王正中、謝俊結<br>Cheng-Chung Wang<br>Jiun-Jie Shie<br>(IoC) |                                                | Chem8041<br>(43422) | 11420<br>TIGP745800 | Tuesday<br>09:10-12:00<br>2/24                                    | 中研院化學所<br>B105, IoC                 |
| SCST 永續化學科技導論二 [3]<br>Introduction to Sustainable Chemical<br>Science and Technology (II) [3]                                                                      | SCST<br>Faculty Members                               |                                                | Chem5098<br>(45796) | 11420<br>TIGP723800 | Wednesday<br>09:10-12:00<br>2/25                                  | 中研院化學所<br>B105, IoC                 |
| SCST 高等分析化學一 [3]<br>Advanced Analytical Chemistry [3]                                                                                                              | 鄒德里<br>Der-Lii M. Tzou<br>(IoC)                       |                                                | Chem8045<br>(34330) | 11420<br>TIGP745700 | Thursday<br>09:00-12:00<br>2/26                                   | 中研院化學所<br>B105, IoC                 |
| CBMB 初級中文 [0]<br><b>Elementary Chinese (Level II) [0]</b><br><b>Required courses for all foreign students</b><br><i>(Only for students who have taken Level I)</i> | 華語教師<br>Chinese Teacher                               | Attending the class, and<br>no need to select. |                     | 11420<br>TIGP719100 | Tuesday<br>3/2~6/15<br>Or<br>Wednesday<br>3/3~6/16<br>18:30-21:30 | 中研院<br>TIGP T&A Building<br>Room207 |

IAMS: Institute of Atomic and Molecular Sciences, Academia Sinica (located in the NTU campus)

CCMS: Center for Condensed Matter Sciences, NTU

IoP: Institute of Physics, Academia Sinica

IoC: Institute of Chemistry, Academia Sinica NTHU: National Tsing Hua University

NTU: National Taiwan University

| Monday                                                                  | Tuesday                                                                                                                                       | Wednesday                                                                                                                                       | Thursday                                            | Friday                                                                                                                                                                 |
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| Advanced Materials: Fundamentals and Applications<br><b>09:10-12:00</b> | Advanced Organic Chemistry<br><b>09:10-12:00</b>                                                                                              | Advanced Nanotechnology (A)<br><b>09:10-12:00</b><br><br>Introduction to Sustainable Chemical Science and Technology (II)<br><b>09:10-12:00</b> | Advanced Analytical Chemistry<br><b>09:00-12:00</b> | Symmetry and Electronic Structure in Quantum Materials: From Tight-Binding to Spintronics<br><b>9:10~12:00</b><br><br>Advanced Nanotechnology (B)<br><b>9:30-12:30</b> |
| Lunch Break                                                             |                                                                                                                                               |                                                                                                                                                 |                                                     |                                                                                                                                                                        |
| Applied Optics<br><b>18:00-21:00</b>                                    | Modern Approaches to Crystal Growth and Quantum Material Synthesis<br><b>14:10-17:00</b><br><br>Elementary Chinese (II)<br><b>18:30-21:30</b> | Seminar<br><b>14:10-16:00</b><br><br>Elementary Chinese (II)<br><b>18:30-21:30</b>                                                              |                                                     | Artificial Intelligence and Advanced Nanotechnology<br><b>14:10-17:00</b>                                                                                              |

☉ Offered by Nano Program

☉ Offered by MST Program

☉ Offered by SCST Program

☉ Offered by Other TIGP Program