

物理研究所碩士班

112 學年度

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| 最低修業年限 | 一年 |
| 應修學分數 | 19 學分 |
| 應修(應選)課程及符合畢業資格之修課相關規定 | <p>1. 必修： 量子力學(一)；書報討論 4 次；學術研究倫理教育。</p> <p>2. 必選： (1) 量子力學(二)、電動力學(一)、古典力學、統計力學(一)、固態物理(一)、粒子與宇宙、高等量子力學中必選二科。 (2) 電動力學(二)、原子與分子物理(一)、統計力學(二)、固態物理(二)、高等固態物理(一)、量子場論(一)(二)、宇宙學簡介、生物物理學、半導體物理及元件(一)(二)、半導體製程技術、固態光學、物理光學中必選一科。</p> |
| 備註 | <p>1. 修習書報討論 4 次並及格。少於 4 學期畢業者不在此限，但其在學期間每學期必須依規定修習書報討論並及格。</p> <p>2. 學術研究倫理教育須於入學第一學期結束前通過，未通過總測驗之學生，不得申請學位考試。</p> <p>3. 除非本所當學年度之必修或必選課程未開，或經課程委員會同意，否則不得至外系所修課。</p> |

物理研究所博士班

112 學年度

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| 最低修業年限 | 二年 |
| 應修學分數 | 18 學分 |
| 直升博士生應修學分數 | 36 學分(含直升前碩士班課程學分) |
| 應修(應選)課程及符合畢業資格之修課相關規定 | <p>必修課程：</p> <ol style="list-style-type: none"> 1. 量子力學(一)(二)：6 學分 2. 電動力學(一)：3 學分 3. 統計力學(一)：3 學分 4. 書報討論須修滿四學期：4 學分 5. 電動力學(二)及統計力學(二)中必選一科：3 學分 6. 在以下四項類別中，擇不同類別裏的兩個科目修習： <ol style="list-style-type: none"> (1) 固態物理(一)(二)或高等固態物理(一) (2) 量子場論(一)或粒子物理(一) (3) 原子與分子物理(一) (4) 本所同意之物理子領域課程 7. 學術研究倫理教育：0 學分 |
| 備註 | <ol style="list-style-type: none"> 1. 進入本所博士班前所修之必修課程，申請後經本所核可者得免修之。(如欲申請抵免則按校方規定辦理) 2. 學術研究倫理教育須於入學第一學期結束前通過，未通過總測驗之學生，不得申請學位考試。 3. 除非本所當學年度之必修或必選課程未開，或經課程委員會同意，否則不得至外系所修課。 |

Institute of Physics

Course Requirements for Master's Program

Academic Year 2023

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| Minimum Study Period | One year |
| Total Required Credits | 19 credits |
| Required (required elective) courses and graduation requirements | <ol style="list-style-type: none"> 1. Required courses: Quantum Mechanics (I); Four Seminar; Academic Research Ethics Education. 2. Required elective courses: (1) Choose two from Quantum Mechanics (II), Electrodynamics (I), Classical Mechanics, Statistical Mechanics (I), Solid State Physics (I), Particle Physics and Cosmology, Advanced Quantum Mechanics. (2) Choose one from Electrodynamics (II), Molecular Physics (I), Statistical Mechanics (II), Solid State Physics (II), Advanced Solid State Physics (I), Quantum Field Theory (I) (II), Introduction to Cosmology, Biophysics, Semiconductor Physics and Devices (I)(II), Semiconductor Process and Technology, Optical properties of solids, Physical Optics. |
| Note | <ol style="list-style-type: none"> 1. Take four seminars, with all grades higher than the passing grade. Students whose study period is shorter than four semesters do not need to follow this regulation, but they should complete and pass the seminar for each semester during the master's program. 2. Students should study "Academic Ethics Education" program before the end of the first semester after enrollment. Students who fail to pass the final test cannot apply for degree exam. 3. Unless the required or required elective courses are not offered by Institute of Physics in the current academic year or under the approval of the Curriculum Committee, students should not select courses outside of Institute of Physics. |

Institute of Physics

Course Requirements for PhD Program

Academic Year 2023

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| Minimum Study Period | Two years |
| Total Required Credits | 18 credits |
| Total Required Credits for Students with Direct Admission from Master's Program | 36 credits (including credits earned during the master's program prior to direct admission) |
| Required (required elective) courses and graduation requirements | <p>Required courses:</p> <ol style="list-style-type: none"> 1. Quantum Mechanics (I) (II): 6 credits 2. Electrodynamics (I): 3 credits 3. Statistical Mechanics (I): 3 credits. 4. Seminar should be selected for four semesters: 4 credits. 5. Choose one from Electrodynamics (II) and Statistical Mechanics (II): 3 credits. 6. Choose two subjects from four different categories as follows: <ol style="list-style-type: none"> (1) Solid State Physics (I) (II) or Advanced Solid State Physics (I) (2) Quantum Field Theory (I) or Particle Physics (I) (3) Atomic and Molecular Physics (I) (4) Institute courses in a subfield of Physics that are approved by the Institute of Physics. 7. Academic Research Ethics Education: 0 credit. |

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| Note | <ol style="list-style-type: none">1. Students can apply for course waivers for courses taken before admission to the PhD program. (Course waiver application must conform to related University bylaw.)2. Students should study “Academic Ethics Education” program before the end of the first semester after enrollment. Students who fail to pass the final test cannot apply for degree exam.3. Unless the required or required elective courses are not offered by Institute of Physics in the current academic year or under the approval of the Curriculum Committee, students should not select courses outside of Institute of Physics. |
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