

# 電子物理學系碩士班

102 學年度

最低修業年限	一年
應修學分數	24 學分(不含個別研討)
應修(應選)課程及符合畢業資格之修課相關規定	<p>一、畢業學分：碩士班研究生畢業時至少應修滿 24 學分，其中包含本系所開設專業課程至少 14 學分，專題演講必需修滿 4 學分，提前畢業者，其專題演講學分數需與在學學期數相同。</p> <p>二、核心課程：</p> <ol style="list-style-type: none"> <li>1. 電子物理組：(1)高等固態物理(2)半導體物理與元件(3)古典力學(4)電動力學(5)量子力學(6)統計力學。</li> <li>2. 光電與奈米科學組：(1)量子力學(2)高等固態物理(3)半導體物理與元件(4)光電子學(5)電動力學(6)雷射導論。</li> <li>3. 理論物理組：(1)量子力學(一)、(二)(必修) (2)高等固態物理(3)古典力學(4)電動力學(5)統計力學。</li> </ol> <p>三、應修學分：</p> <ol style="list-style-type: none"> <li>(1)理論物理組研究生必須修滿量子力學(一)、(二)兩課程學分，並至少須在本所修滿該組 2 科不同名稱之核心課程；電子物理組與光電與奈米科學組研究生至少須在本所修滿該組 3 科不同名稱之核心課程。若為兩學期之課程，僅第一學期課程列入計算。</li> <li>(2)入學前所修與本系所開相同名稱之研究所課程，其學科及學分得申請辦理抵免，但專題演講及其他不同名稱之課程，不得抵免。抵免課程不得包含原學位之應修最低畢業學分。</li> <li>(3)所修外系所所開與本系所開相同名稱之課程至多抵免 9 學分，本系所開之課程至多抵免 21 學分。辦理時，依本系抵免學分作業規定填具申請表，並經本系教學與輔導委員會審查同意。</li> <li>(4)入學後，選修外系所學分至多採計 6 學分，教育學程之學分不予採計。</li> <li>(5)碩士班前二年，每學期必須選修有學分數之專題演講。</li> <li>(6)抵免學分申請應於入學後，校方申請抵免學分截止前 2 週申請辦理。</li> </ol>

# Electrophysics Department: Master Program

School Year 102

Min. Required Years for Graduation	1 year
Required Credits for Graduation	24 Credits (Excludes individual seminars)
Required Courses and Graduation Criteria	<p>I. Graduation Credits: Required at least 24 credits for MS students which includes 14 credits from professional courses and 4 credits from seminars of Electrophysics Department. The Number of required credits of seminars is as same as the number of registered semesters of MS students who are going to early graduate.</p> <p>II. Core Courses:</p> <ol style="list-style-type: none"> <li>1. Electrophysics Program :             <ol style="list-style-type: none"> <li>(1) Advanced Solid State Physics</li> <li>(2) Semiconductor Physics and Devices</li> <li>(3) Classical Mechanics (4) Electrodynamics</li> <li>(5) Quantum Mechanics (6) Statistical Mechanics.</li> </ol> </li> <li>2. Photonic and Nanometer Science Program:             <ol style="list-style-type: none"> <li>(1) Quantum Mechanics</li> <li>(2) Advanced Solid State Physics</li> <li>(3) Semiconductor Physics and Devices (4) Optical Electronics</li> <li>(5) Electrodynamics (6) Introduction to Laser.</li> </ol> </li> <li>3. Theoretical Physics Program:             <ol style="list-style-type: none"> <li>(1) Quantum Mechanics I, II (Required)</li> <li>(2) Advanced Solid State Physics</li> <li>(3) Classical Mechanics</li> <li>(4) Electrodynamics (5) Statistical Mechanics.</li> </ol> </li> </ol> <p>III. Required Credits:</p> <ol style="list-style-type: none"> <li>(1) Credits are required for Theoretical Physics Program students in Quantum Mechanics I, II and have to finish at least 2 core courses of difference names in Electrophysics Department graduate school. Electrophysics Program and Photonic and Nanometer Science program students require at least 3 core courses of different names. Only the first semester of two-semester courses are counted.</li> <li>(2) Courses of the same names finished before the enrollment can be waived by application except seminars. Note that finished courses within the previous minimum credit requirement cannot be waived.</li> <li>(3) Finished courses held by Electrophysics Department with the same name can be waived up to 21 credits. Finished courses held by other departments with the same name can be waived up to 9 credits. Students have to finish the application for credits waiving according to regulations and admission from Teaching and Coaching Committee.</li> <li>(4) After enrollment, up to 6 credits for optional courses held by other departments can be counted for graduation credits. Education program credits are excluded however.</li> <li>(5) Students have to select at least one credited seminar every semester in the first two years of MS Program.</li> <li>(6) Course waiving have to be applied within two weeks before the due date of application after enrollment.</li> </ol>