

## 生物藥學研究所博士班

110 學年度

最低修業年限	限修業期限以二至七年為限，在職進修研究生未在規定修業期限修滿應修課程或未完成學位論文者，得延長修業年限二年。
應修學分數	<ol style="list-style-type: none"> <li>1. 至少應修畢十八學分，其中包含本所訂定之必修及必選科目學分，論文學分另計。</li> <li>2. 本所碩士畢業生及逕修讀博士學位研究生，可免修已修畢及格之本所必修科目。</li> <li>3. 相關研究所碩士班畢業之研究生得免修已修畢及格之本所博士班所修之必修相同科目，可免修學分依學校規定辦理並由所務會議認定。</li> </ol>
逕博應修學分數	逕修讀博士學位研究生至少應修畢三十學分，其中包含本所訂定之必修及必選科目學分
應修（應選）課程及符合畢業資格之修課相關規定	<p>(一) 必修科目：</p> <ol style="list-style-type: none"> <li>1. 本國籍學生及僑生:生物藥學通論二學分，生物藥學特論二學分，生物藥學研究方法二學分，生物藥學實驗技術一學分，醫藥化學（一）二學分，醫藥化學（二）二學分。學術研究倫理 0 學分。</li> <li>2. 外籍學生:「生藥藥學通論」(Fundamentals in Biopharmaceutical Sciences)二學分，「轉譯生物藥學的實際應用」(Practical Applications in Translational Biopharmaceutical Sciences)二學分，「生物藥學實驗技術」(Experimental techniques for modern Biopharmaceutical Sciences)一學分，「學術研究倫理」0 學分。</li> <li>3. 經指導教授同意，學生可選擇以中文或英文授課的生物藥學通論做為必修科目。</li> </ol> <p>(二) 必選科目：</p> <ol style="list-style-type: none"> <li>1. 本國籍學生及僑生: <ol style="list-style-type: none"> <li>(1) 通過資格考前，每學期需選修「生物藥學專題討論」一學分，通過資格考後，需選修「進階生物藥學專題討論」二學期共四學分，適用於新舊生。</li> <li>(2) 修業第二學年需選修「生物藥學教學」，適用新舊生。</li> <li>(3) 需選修通過「新藥開發特論（一）」及「新藥開發特論（二）」方能申請學位考試。</li> </ol> </li> <li>2. 外籍學生: <ol style="list-style-type: none"> <li>(1) 通過資格考前，每學期需選修「進階生物藥學專題討論」二學分，通過資格考後，尚需選修「進階生物藥學專題討論」二學期共四學分，適用新舊生。</li> <li>(2) 需選修通過「新藥開發特論（一）」及「新藥開發特論（二）」方能申請學位考試。</li> </ol> </li> </ol> <p>(三) 符合畢業資格相關規定</p> <ol style="list-style-type: none"> <li>1. 通過資格考核一年後才能申請學位考。</li> <li>2. 博士班修業滿二年；學士學位應屆畢業生申請逕修讀博班應修業滿三年；碩士學位學生申請逕修讀博班，碩班及博士班合計應修滿三年。</li> <li>3. 修畢規定之必修及必選科目。</li> <li>4. 博士班至少修畢十八學分；逕修讀博士學位者，至少修畢三十學分。</li> <li>5. 論文進度報告 <ol style="list-style-type: none"> <li>(1) 研究生選定實驗室後，於第一學年度上學期十月底前舉行論文方向報告。</li> <li>(2) 在學期間，於第一學年度下學期二月底舉行第一次論文進度報告，自第二學年起，每年九月底前舉行進度報告，由本所專、兼任老師參加評分。</li> <li>(3) 在學期間，自第二學年開始，每年三月中須舉行進度報告，以學位考形式邀請口試位委員評分。</li> <li>(4) 未經所務會議同意延期者，如未如期舉行，視同不及格。</li> </ol> </li> </ol>

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|  | <ol style="list-style-type: none"><li>6. 博士班研究生提出學位考試申請時之 5 年內，需有研究論文已被國際科學索引指標列名之期刊接受發表，本所應為所屬單位排名上第一順位，且至少符合下列條件之一。<ol style="list-style-type: none"><li>(1) Impact Factor (IF) 在4.0 以上，或 IF 在各科系學術領域排名 30% 以內，且在 2.0 以上之論文一篇。</li><li>(2) IF1.5 以上之論文兩篇。</li><li>(3) 如有特殊情況，則須經所務會議同意。</li></ol></li><li>7. 該生應為發表論文之第一作者，或共同第一作者，但第一作者人數不得超過二位，且指導教授應為通訊作者或共同通訊作者。</li><li>8. 通過論文口試。</li></ol> |
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# Ph. D. Program of Bio-pharmaceutical Sciences

Academic Year 2021

Mini. Term of Study	The period of study is limited to two to seven years. However, in-service students who have failed to complete the required courses within the prescribed period of study or have not completed the dissertation may extend their study for two years.
Minimum Credits	<ol style="list-style-type: none"> <li>1. At least 18 credits shall be taken, including all required and required elective credits. Dissertation credits are not included.</li> <li>2. Students enter with a MS degree from this institute or enter straight from master program are exempt from taking required and required elective courses which they have already taken and passed</li> <li>3. Students enter with a MS degree from relevant graduate schools are exempt from taking the same required courses, which they have taken and passed, while credits of exemption are administered in accordance with school regulations and affirmed via the PI meetings</li> </ol>
Minimum Credits for Direct-Entrance Ph.D.	Students enter straight form master program shall have completed at least 30 credits, including required credits and required elective credits

## Curriculum and Regulations

- (1) Required courses:
- ①. Local and overseas Chinese students: 2 credits for “Fundamentals of Biopharmaceutical Sciences,” 2 credits for “Advanced Biopharmaceutical Sciences,” 2 credits for “Research Methods in Bio-Pharmaceutical Sciences,” 1 credit for “Experimental Techniques for Modern Biopharmaceutical Sciences,” 2 credits for “Medicinal Chemistry (1),” 2 credits for “Medicinal Chemistry (2),” and 0 credits for Research Ethics.
  - ②. International students: 2 credits for “Fundamentals in Biopharmaceutical Sciences,” 2 credits for “Practical Applications in Translational Biopharmaceutical Sciences,” 1 credit for “Experimental techniques for modern Biopharmaceutical Sciences,” and 0 credits for “Research Ethics.”
  - ③. With consent from the advisor, students can choose “Fundamentals of Biopharmaceutical Sciences” in either Chinese or English as the required course.
- (2) Required elective courses:
- ①. Local and overseas Chinese students:
    - A. Before passing the qualification exam, students need to take 1 credit of “Biopharmaceutical Sciences Seminar” for each semester. After passing the qualification exam, students need to take “Advanced Seminar of Biopharmaceutical Sciences” for 2 more semesters for a total of 4 credits. This is applicable to both current and newly enrolled students.
    - B. Students who enrolled for the second academic year need to take “Teaching in Biopharmaceutical Sciences.” This is applicable to both current and newly enrolled students.
    - C. To apply for the dissertation examination, students must pass the “Special Topics on Drug Discovery (I)” and “Special Topics on Drug Discovery (II).”
  - ②. Foreign students:
    - A. Before passing the qualification exam, students need to take 2 credit of “Advanced Seminar of Biopharmaceutical Sciences” for each semester. After passing the qualification exam, students need to take “Advanced Seminar of Biopharmaceutical Sciences” for 2 more semesters for a total of 4 credits. This is applicable to both current and newly enrolled students.
    - B. To apply for the dissertation examination, students must pass the “Special Topics on Drug Discovery (I)” and “Special Topics on Drug Discovery (II).”
- (3) Qualifications for graduation
- ①. At least 1 year after the passing the qualification examination.
  - ②. The student must have registered for 2 academic years. Students who enter

straight from undergraduate program shall register for PhD program for at least 3 academic years. Students who enter straight directly from a master program must register for the master and PhD program for a total of 3 academic years.

- ③. Completion of required and required elective courses.
- ④. A total of 18 credits must be completed. Students who enter directly from master or undergraduate program must completed at least 30 credits.
- ⑤. Progressive review
  - A. After choosing the advisor, thesis proposal must be proposed before the end of October in the first semester of the first academic year.
  - B. The first progressive review will be required at the end of February in the second semester of the first academic year. Starting from the second academic year, the progress review will be required before the end of September for each academic year. Full-time and part-time faculty will participate in the review.
  - C. While enrolled, a progressive review will be held in mid-March starting from the second academic year. This review will be held in the committee format and oral defense committee members will participate.
  - D. Any student, who has not held the progressive review as scheduled, shall be deemed to be disqualified if not approved by PI meetings
- ⑥. PhD candidates who apply for the degree examination must have research papers that have been accepted for publication by journals listed in the International Science Index within 5 years. Institute of Biopharmaceutical Sciences must be ranked first in terms of institute affiliation and meet at least one of the following conditions.
  - A. One paper with Impact Factor (IF) ranking above 4.0, or IF ranking in the top 30% above 2.0.
  - B. Two papers with IF above 1.5.
  - C. All other conditions must be approved via PI meetings.
- ⑦. The PhD candidate should be the first author or co-first author of the published paper, but the number of first authors should not exceed two, while the advisor shall be the corresponding author or co-corresponding author.
- ⑧. Pass the dissertation oral examination.