



<p>八、博士班研究生考核：</p> <p>博士班研究生於入學後第一學年結束前，應經系（所）主任之同意商請指導教授。</p>	
<p>九、博士候選人資格考核：</p> <p>研究生修完最低修業年限並修滿規定應修科目及學分，且撰妥學位論文計劃大綱及基本內容，始得提出博士候選人資格考核，並經考核委員會三分之二以上之委員通過，始為合格。</p>	<p>博士候選人資格考核不合格者，不得提出論文考試，經重考一次仍不合格者，予以退學。</p>
<p>十、博士學位考試（論文考試）：</p> <p>1. 研究生須於申請論文考試前取得學術倫理教育修課證明，前項資格由各系（所、學位學程）認定。</p> <p>2. 通過博士候選人資格考核，並完成研究論文初稿者得於當學期完成註冊選課後，於預定舉行論文考試日期至少二十天前提出論文考試申請。論文考試成績以 70 分為及格。</p>	<p>論文考試成績佔畢業成績 50%。          研究生得透過臺灣學術倫理教育資源中心網站自我學習，並通過總測驗取得修課證明；各系（所、學位學程）另訂有應通過專業學術研究倫理教育研習課程者，則依各系（所、學位學程）另訂之規定實施。          論文不及格而修業年限未屆滿者，得於次學年或次學期申請重考一次，重考仍不及格者，予以退學。重考及格者之成績，概以 70 分計算。</p>
<p>十一、其 他：</p> <p>1、本學程研究生之論文不受 Impact Factor 限制，惟須含有一篇以本學程名義發表於具審查制度之國際性學術期刊論文（為唯一第一作者且指導教授必須為通訊作者），並完成下列其中一項。</p> <p>(1) 一篇以本學程名義發表於具審查制度之國際性學術期刊（為唯一第一作者）。</p> <p>(2) 提交正式申請送件國內外之發明/新型專利申請書（研究生須為發明人之一）。</p> <p>(3) 提交正式申請送件營運企劃書（研究生須為撰寫人，由學程會議審定之）。</p> <p>(4) 與簽約產學合作單位共同擬定之專業報告書（研究生須為撰寫人，由學程會議審定之）。</p> <p>2、英語能力畢業標準：</p> <p>(1) 檢附全民英檢中高級(含以上)之同等英文檢定證明。</p> <p>(2) 或發表 2 篇國際性學術期刊（為唯一第一作者）。</p>	<p>依「國立中興大學學生英文能力畢業標準檢定辦法」第 2 條規定，授權系所自訂研究生英語能力畢業標準。(98.3.26 第 57 次教務會議訂定)</p>

※必修科目及畢業學分數規定由系所依各學年課程規劃表填列；章程查詢網址：

<http://www.oaa.nchu.edu.tw/rule01.htm>

※畢業條件異動請依畢業條件異動簡化程序建議表辦理。如無課程或學分異動，不須每學年提送。

※本表格修訂係依第 62、70、71 次教務會議紀錄

G-32 Doctoral Program in Biotechnology Industrial Management and Innovation  
College of Life Sciences, National Chung Hsing University  
Doctoral Student Graduation Requirements for the 2023 Academic Year

Item	Note																		
I. Period of study: 1. Minimum period of study: 2 years 2. Maximum period of study: 7 years (excluding up to 2 years of suspension)	In-service students may apply for a one-year extension of study.																		
II. Minimum total credits required to graduate (excluding credits earned from physical education and national defense education courses) General students: <u>30</u> credits Master's direct-entry doctoral students: <u>42</u> credits Bachelor's direct-entry doctoral students: <u>    </u> credits Including the following two categories: 1. Courses (required and elective courses): General students: Minimum credits from required courses, <u>11</u> ; and minimum credits from elective courses, <u>7</u> . Master's direct-entry doctoral students: Minimum credits from required courses, <u>11</u> ; and minimum credits from elective courses, <u>19</u> . Bachelor's direct-entry doctoral students: Minimum credits from required courses, <u>    </u> ; and minimum credits from elective courses, <u>    </u> . 2. Dissertation: 12 credits.	Graduate students must have an academic and conduct grade of 70 to pass. Students who fail their conduct will be dismissed. Academic performance accounts for 50% of the graduation score. Master's direct-entry doctoral students may have up to 12 of the credits they earned from their master's program courses counted toward their graduation credits. Bachelor's direct-entry doctoral students may transfer up to half of the required graduation credits for doctoral programs (excluding credits earned from their graduation dissertation). <b>* Doctoral students are required to participate in at least one international academic conference and present their research findings prior to the oral defense of their dissertation.</b> *Required + elective + dissertation = Minimum total credits required for graduation																		
III. Transfer credits: Maximum <u>9</u> credits	According to NCHU Regulation for Credits Exemption, students should apply for credit exemption and complete the process within 2 weeks after the registration date.																		
IV. Inclusion of relevant undergraduate courses in graduate credits	The University's Regulations on Course Registration: The number of required course credits that graduate students shall earn per semester is determined by their advisors or department/graduate institute/degree program heads. If necessary, students may take relevant undergraduate courses with the approval of their course instructors. For credits from these courses to count toward graduation credits, approval from the advisors and relevant department/graduate institute/degree program meetings is required, with a maximum of 9 credits allowed.																		
V. Recognition of credits from other departments/graduate institutes: No restriction on the maximum number of credits	Inter-university course credits may also be included.																		
VI. Required courses and credits: A total of <u>23</u> credits  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Course title</th> <th style="text-align: right;">Number of credits</th> </tr> </thead> <tbody> <tr> <td>1. Foundation of Entrepreneurship Management in Biotech Industry</td> <td style="text-align: right;">3</td> </tr> <tr> <td>2. Practice on Entrepreneurship in Biotech Industry</td> <td style="text-align: right;">3</td> </tr> <tr> <td>3. Industrial Business Administration Traineeship</td> <td style="text-align: right;">1</td> </tr> <tr> <td>4. Industrial Practice(I)</td> <td style="text-align: right;">1</td> </tr> <tr> <td>5. Industrial Practice (II)</td> <td style="text-align: right;">1</td> </tr> <tr> <td>6. Biotechnology Industrial Seminar(I)</td> <td style="text-align: right;">1</td> </tr> <tr> <td>7. Biotechnology Industrial Seminar (II)</td> <td style="text-align: right;">1</td> </tr> <tr> <td>8. Dissertation</td> <td style="text-align: right;">12</td> </tr> </tbody> </table>	Course title	Number of credits	1. Foundation of Entrepreneurship Management in Biotech Industry	3	2. Practice on Entrepreneurship in Biotech Industry	3	3. Industrial Business Administration Traineeship	1	4. Industrial Practice(I)	1	5. Industrial Practice (II)	1	6. Biotechnology Industrial Seminar(I)	1	7. Biotechnology Industrial Seminar (II)	1	8. Dissertation	12	Students who fail the required courses shall retake them. Students who do not complete all the required courses may not graduate.
Course title	Number of credits																		
1. Foundation of Entrepreneurship Management in Biotech Industry	3																		
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8. Dissertation	12																		
VII. Foundation courses assigned by the department/graduate institute (not counted toward graduation credits): A total of <u>    </u> credits 1. 2. 3.																			

4.	
VIII. Doctoral student evaluation: Doctoral students shall, with the approval of their department/graduate institute chairs, find their advisors before the end of the first academic year.	
IX. Doctoral degree candidate qualification examination: Graduate students who have completed the minimum period of study, fulfilled all required courses and credits, and prepared the outline and basic content of their degree dissertations may apply for a doctoral degree candidate qualification examination. The students are deemed to have passed the examination if at least two-thirds of the examination committee members agree so.	Students who fail their qualification examinations may not apply for dissertation defense. Those who fail the qualification examinations twice will be dismissed.
X. Doctoral degree examination (dissertation defense): 1. Graduate students must obtain proof showing that they have completed academic ethics education courses prior to applying for their dissertation defense. Relevant qualifications are determined by the respective departments/graduate institutes/degree programs. 2. Students who have passed their doctoral degree candidate qualification examinations and who have completed a draft of their dissertations shall, after registering and enrolling for the semester, apply for the dissertation defense; they shall apply for the defense at least 20 days before the scheduled defense date. A passing score for the defense is 70.	Dissertation defense score accounts for 50% of the graduation score. Graduate students may complete self-directed learning through the Center for Taiwan Academic Research Ethics Education website and shall pass the final test to obtain certification. Departments/graduate institutes/degree programs may require students to take additional professional academic research ethics training courses in accordance with their own regulations. Students who failed their dissertation defense but have not yet reached the maximum study period may register for the following academic year or semester to retake the examination once. For retakes, a passing score of 70 or above will be recorded as 70. Those who fail their dissertation defense twice will be dismissed.
XI. Other: English proficiency graduation requirements: (Specify if the department/graduate institute has no set requirements) 1. The doctoral dissertation of students enrolled in this program shall not be subject to Impact Factor requirements. Notwithstanding, it must include at least one article published under the auspices of this program in a peer-reviewed international academic journal, in which the student is the sole first author and the advisor is designated as the corresponding author. In addition, at least one of the following requirements shall be satisfied: (1) One article published under the auspices of this program in a peer-reviewed international academic journal, in which the student is designated as the sole first author. (2) Formal submission of an application for an invention or utility model patent, filed either domestically or internationally, in which the graduate student is duly listed as one of the inventors. (3) Formal submission of a business operation plan, duly prepared by the graduate student, and subject to review and approval by the Program Committee. (4) A professional report jointly developed with a contracted industry-academia collaboration partner, in which the graduate student serves as the principal author, and which shall be subject to review and approval by the Program Committee. 2. English language proficiency graduation requirement (Applicants must satisfy at least one of the following criteria): (1) Submission of evidence of English language proficiency equivalent to or higher than the General English Proficiency Test (GEPT) Intermediate High level. (2) publication of two articles in peer-reviewed international academic journals, with the student serving as the sole first author for each publication.	The departments/graduate institutes are authorized to set their own English proficiency standards for graduate students in accordance with Article 2 of the University's Regulations on Graduation English Proficiency (approved in the 57 <sup>th</sup> Academic Affairs Meeting on March 26, 2009).

\* The required courses and credit requirements shall be filled out in accordance with the curriculum plans of the respective departments/graduate institutes each academic year. Related regulations can be accessed via: <http://www.oaa.nchu.edu.tw/rule01.htm>

\* Annual submissions are not required if there are no changes to courses or credits.

\* This form was revised according to the records of the 62<sup>nd</sup>, 70<sup>th</sup>, 71<sup>st</sup>, and 80<sup>th</sup> Academic Affairs Meetings.

Department/graduate institute/degree program processing clerk: \_\_\_\_\_ Signature and seal of the head of the department/graduate institute: \_\_\_\_\_  
 (Amended on \_\_8\_\_ / \_\_22\_\_ / \_\_2023\_\_ (MM/DD/YYYY))