

G-32 <u>Doctoral Program in Microbial Genomics</u> <u>Doctoral Student Graduation Requirements for the 2022 Academic Year</u>													
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>42</u> credits Including the following two categories: 1. Courses (required and elective courses): General students: Minimum credits from required courses, <u>7</u> ; and minimum credits from elective courses, <u>11</u> . Master's direct-entry doctoral students: Minimum credits from required courses, <u>7</u> ; and minimum credits from elective courses, <u>23</u> . Bachelor's direct-entry doctoral students: Minimum credits from required courses, <u>7</u> ; and minimum credits from elective courses, <u>23</u> . 2. Dissertation writing: 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). *Required + elective + dissertation = Minimum total credits required for graduation												
III. Transfer credits: Maximum <u>9</u> credits	Students' credit transfer applications must comply with the University's Regulation for Credits Exemption and be submitted before the course add/drop deadlines in the semesters that the students are admitted.												
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 6 credits allowed.												
V. Recognition of credits from other departments/graduate institutes: Maximum <u>unlimited</u> credits	Inter-university course credits may also be included.												
VI. Required courses and credits: A total of <u>19</u> credits <table border="0" style="width: 100%;"> <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. Dissertation</td> <td style="text-align: right;">12</td> </tr> <tr> <td>2. Special Topics in Microbial Genomics (I) (II) (III) (IV) (Choose any one of the following three required courses)</td> <td style="text-align: right;">4</td> </tr> <tr> <td>3-1. Microbial Genetics</td> <td style="text-align: right;">3</td> </tr> <tr> <td>3-2. Introductory to Bioinformatics</td> <td style="text-align: right;">3</td> </tr> <tr> <td>3-3. Biological Computing (I)</td> <td style="text-align: right;">3</td> </tr> </tbody> </table>	Course title	Number of credits	1. Dissertation	12	2. Special Topics in Microbial Genomics (I) (II) (III) (IV) (Choose any one of the following three required courses)	4	3-1. Microbial Genetics	3	3-2. Introductory to Bioinformatics	3	3-3. Biological Computing (I)	3	Students who fail the required courses shall retake them. Students who do not complete all the required courses may not graduate.
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3-1. Microbial Genetics	3												
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3-3. Biological Computing (I)	3												
VII. Foundation courses assigned by the department/graduate institute (not counted toward graduation credits): None.													
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.	Failure to secure an advisor within the specified deadline will result in a mandatory one-semester suspension.												

<p>IX. Doctoral degree candidate qualification examination:</p> <ol style="list-style-type: none"> 1. Obtain the consent of the advisor. 2. Complete all stages of the Lab Rotation. 3. 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. 	<p>Students who fail their qualification examinations may not apply for dissertation defense. Those who fail the qualification examinations twice will be dismissed.</p>
<p>X. Doctoral degree examination (dissertation defense):</p> <ol style="list-style-type: none"> 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. 	<p>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.</p>
<p>XI. Others:</p> <ol style="list-style-type: none"> 1. English Proficiency Graduation Requirement: Not specified. 2. Doctoral students must first pass the qualification examination and publish at least two SCI or SSCI papers as the first author, or one paper with an impact factor ≥ 5.0. They must also obtain approval from their advisor and committee recommendation before applying for the doctoral degree examination. 3. In principle, students must participate in at least two Lab Rotations. However, if a suitable advisor is found within the first two rotations, participation in the third Lab Rotation is optional. 	<p>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 57th Academic Affairs Meeting on March 26, 2009).</p>

* 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 62nd, 70th, 71st, and 80th Academic Affairs Meetings.

Department/graduate institute/degree program processing clerk: _____ Signature and seal of the head of the department/graduate institute: _____
(Amended on 11/02/2021 (MM/DD/YYYY))