

# Guidelines for the Doctoral Program of the Department of Statistics, National Chengchi University

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## Chapter 1 General Provisions

Article 1: The National Chengchi University Department of Statistics (hereinafter referred to as the "Department") established these Guidelines for the course requirements, degree examination, and graduation requirements of doctoral students.

Article 2: Any questions regarding the provisions in these Guidelines shall be determined by the Curriculum Committee.

## Chapter 2 Duration of Study and Credit Requirements

Article 3: The duration of study of doctoral students of the Department is two to seven years.

Article 4: Excluding the dissertation, doctoral students of the Department must acquire at least 34 credits.

Article 5: Course requirements for doctoral students of the Department before graduation are as follows:

- (I) Required courses: Seminar on Mathematical Statistics, Seminar on Linear Models, Probability Theory, Academic Ethics.
- (II) Required elective courses: Statistics Consulting, Seminar; in which "Seminar" is a required elective course every semester before taking the qualifying exam, and at most 4 credits may be acquired.
- (III) Students participate and publish a paper in the college's "Research Publication Camp," or attend and publish a paper in an international conference recognized by the Department within two years after passing the qualifying exam.
- (IV) After doctoral students pass the qualifying exam, they must schedule a roughly 30-minute speech during the "Seminar" course each semester until graduation. Students are exempted from giving a speech if they have already participated and published a paper in the college "Research Publication Camp" or published a paper in an international conference recognized by the Department that year.

Article 6: If students have already taken the doctoral program courses "Seminar on Mathematical Statistics," "Seminar on Linear Models," or "Statistics Consulting" in a master's program, they may transfer the credits.

Article 7: Doctoral students of the Department may take up to two master's program courses of the Department that will be included in the 34 credits required for graduation.

Article 8: If doctoral students of the Department have not taken the courses "Experiment Design," "Applied Regression Analysis," "Sampling Methods," or "Multivariate Analysis" while studying in a master's program, they must complete such courses before graduation, and the recognition of credits shall be in accordance with the preceding article.

## Chapter 3 Qualifying Exam

Article 9: Doctoral students of the Department must pass the qualifying exam within four semesters (suspension of study is not calculated in the period of study) after enrollment.

Article 10: Qualifying examination subjects for doctoral students of the Department are as follows: Theoretical Statistics (includes Seminar on Mathematical Statistics, Seminar on Linear

Models, and Probability Theory).

Article 11: Qualifying exams are held once in February and September each year. In principle, the examination time for each subject is five hours. Students must retrieve a qualifying exam application form at the department office one month before the end of each semester, fill out the application form, and submit the application form to the department office before the deadline. Students must also sign an affidavit, and submitting the application form counts as taking one qualifying exam.

Article 12: Students may take each subject of the qualifying exam at most two times. If students apply to take the qualifying exam but do not take the exam, it will be counted as having taken the qualifying exam once.

Article 13 Students who fail to pass the qualifying exam for the second time may submit an application within two weeks after results are announced to take an oral examination. If the student still fails the oral examination, the student shall be withdrawn from the University.

Article 14 Doctoral students must serve at the Statistics Consulting Center for one year after passing the qualifying exam. In principle, at most 2 doctoral students may serve in the Statistics Consulting Center each year.

#### **Chapter 4 Dissertation Topic Submission and Advisor Selection**

Article 15 Doctoral students may submit their doctoral dissertation after passing the qualifying exam.

Article 16 The advisor must be a full-time teacher of the Department.

#### **Chapter 5 Results presentation**

Article 17 Doctoral students of the Department must meet the following two conditions before the degree examination:

- (I) Attend a statistics related international academic conference and publish a paper during the conference.
- (II) Publish
  1. at least one paper in a SCI (including extended) or SSCI (published or accepted) journal, or
  2. at least two papers in a TSSCI journal or Journal of the Chinese Statistical Association (published or accepted).

Article 18 If the journal papers in the preceding article are jointly published, they must be co-authored with the doctoral student's advisor. The first author or corresponding author must be the doctoral student or advisor, and the paper may not be the doctoral student's master's thesis or a paper published before enrolling in the doctoral program.

#### **Chapter 6 Review of Dissertation Proposal**

Article 19 Before doctoral students of the Department formally apply for the degree examination, they must submit their dissertation proposal for review, which will be carried out in the form of an oral defense. The proposal review procedures are as follows:

1. The proposal shall be reviewed by the Review Committee. The Review Committee for each proposal shall consist of four to five qualified members (including the dissertation advisor) from inside and outside NCCU, in which at least two members must be from outside NCCU.
2. Doctoral students must gain the approval of their advisor before submitting their dissertation proposal, and must retrieve an application form from the department office two weeks before the oral defense. The proposal must be delivered to each committee member one week before the oral defense. Contents of the proposal must include preliminary research results and a complete list of references.
3. Students must gain the approval of more than two thirds of defense jury members to pass the oral defense for the dissertation proposal. Students who do not pass must re-apply for a different time.
4. Students may only apply for the degree examination six months after passing the

proposal review.

## **Chapter 7 Doctoral Degree Examination**

Article 20 Doctoral students of the Department must meet one of the following criteria at the time of the degree examination.

- (I) Pass any one of the following test standards
  1. TOEFL IBT 94 points or higher (inclusive)
  2. TOEIC 800 points or higher (inclusive).
  3. IELTS 6.5 or higher (inclusive).
  4. Cambridge Certificate FCE or higher (inclusive).
  5. GEPT high-intermediate level.
- (II) Take 108 hours of English courses at the language center of a public or private university registered with the MOE, receive a score of at least 80 points for each course, and at least 1/3 must be writing classes and 1/3 must be conversation classes. Courses are only valid for two years after they are completed.
- (III) Obtained a bachelor or master's degree from an English speaking country that is recognized by the MOE.

Article 21 The degree examination for doctoral students of the Department is conducted in the form of an oral defense, and procedures are as follows:

1. The oral defense of the dissertation shall be carried out by the oral defense jury. The oral defense jury for each dissertation shall consist of five to nine members from inside and outside NCCU, in which members from outside NCCU must account for one-third or more (inclusive).
2. Students must gain the approval of more than two thirds of defense jury members with an average score of 70 points to pass. Students may retake the exam if they fail the oral defense, and shall be withdrawn from the University if they fail the exam the second time.

Article 22 Doctoral dissertations of the Department shall, in principle, be written in traditional Chinese or English. However, the title and abstract must still be written in traditional Chinese.

Article 23 Other matters shall be handled in accordance with the National Chengchi University Guidelines for Graduate Degree Examinations.

## **Chapter 8 Supplementary Provisions**

Article 24 Any matters that are not addressed in these Guidelines shall be governed by NCCU regulations.

Article 25 These Guidelines shall be implemented after approval by a department affairs meeting. The same applies to all subsequent amendments.