

Graduate Institute of Networking and Multimedia

Regulations and Requirements for Doctoral Students

2009.1.9

I. Advisor

1. Students' dissertation advisor has to be a full-time dedicated faculty member of CSIE. If necessary, an additional scholar or expert of related fields can be invited as the co-advisor under the approval of the director and the dissertation advisor.
2. Each student is eligible to look for a dissertation advisor after entering the program. Before earning the agreement from a faculty to serve as the dissertation advisor, a student would be assigned a course advisor by the faculty member in charge of the academic affairs.
3. Students have to find their dissertation advisor before the beginning of the following semester after passing the Qualifying Exam.
4. After passing the Qualifying Exam, students have to submit the Letter of Consent signed by the dissertation advisor during the registration process.
5. Change of dissertation advisor shall base on the regulations by the GINM and NTU.

II. Course

Courses in the GINM are categorized into three categories: *multi-media technology*, *networking technology* and *systems and application*. Each category contains courses offered by our faculty or courses approved by the Committee of Curriculum. With the approval of the Director, students can apply for course exemption for related courses taken in other departments.

Please refer to the course list and the course flow chart for course titles, the hierarchy of courses (Basic→Kernel→Advanced→Project), and the relationship among them.

1. Required courses

(1) Doctoral Dissertation (12 credits)

(2) Special Project (required for every semester until the student is eligible to take the Doctoral Dissertation course)

(3) GINM Seminar Course (need to register for at least 4 semesters). Exceptions shall acquire the approval from the Committee of Curriculum.

2. To graduate, students have to take at 18 credits from GINM (for those entering through direct admission to the Doctoral Program, the minimum credits required are 30). Among these credits, at least 6 credits must be from the category of multi-media technology, credits from networking technology, and at least 3 credits must be from the systems and application category. The credits earned from Doctoral Dissertation, Special Project and Seminar courses cannot be used to satisfy the graduation credits.

III. Qualifying Exam

1. Students have to pass 4 from the 6 Kernel Courses (Computer Graphics, Digital Image Processing, Information Theory and Coding Techniques, Advanced Computer Network, Advanced Operating System, Information Retrieval and Extraction)

2. Qualifying Exam will be hold within 4 weeks after the beginning of each semester.

3. The request for reexamining the exam grades can be submitted to the GINM Office in writing from only within 10 days since the exam results are announced.

4. Students have to take at least one Kernel course of the qualifying exam by the end of the first year of study. The deadline can be extended when serious and unavoidable accidents happen to the student, upon the approval from the Director.

5. Doctoral students need to pass all four courses of the qualifying exam within the first 5 semesters of study (including semesters in which the leave of absence is applied). The exam of each Kernel course can be taken at most twice during the period of study. The qualifying exam can also be taken during the leave of absence.

6. A doctoral student who fails to fulfill the requirements stated in Article III-3. and III-4. will be terminated from study.

7. The application for the exemption of the qualifying exam should follow the regulations about Doctoral Qualifying Exam Exemption.

IV. Dissertation Defense

1. A doctoral student who has passed the qualifying exam and has sufficient credits for graduation (based on the Regulations of Doctoral Program) is eligible to apply for taking dissertation proposal exam to GINM given the advisor approves. The dissertation proposal should be reviewed by a committee of at least 5 people acknowledged by the Committee of the Academic Affairs of GINM. Students who failed to earn the approval after two reviewing chances will be terminated from study. The dissertation proposal has to be reviewed again if a student changes the advisor. Also, the dissertation proposal exam and the dissertation defense cannot be hold in the same semester.

2. With the approval from the dissertation advisor, a doctoral student who has passed the dissertation proposal exam is eligible to apply for dissertation defense, given one of the following condition is satisfied:

(1) Earned more than 3 points through publishing technical papers in international journals or conferences (including papers to appear, yet the papers used for Qualifying Exam Exemption are not counted), only the papers have to be published after entering the program. The points for publishing technical papers can be calculated as follows:

(a) 3 points for each paper published in excellent journals and international conferences acknowledged by the committee of Academic Affairs, given the applicant is the main contributor.

(b) At most 1 point for each paper published in other important journals and international conferences, given the applicant is the major contributor. The actual point earned for each paper will be determined by the Committee of Academic Affairs.

(2) Accomplished an advanced and practical system implementation during the doctoral study in GINM. The Committee of Academic Affairs shall invite experts from relevant industry to form a review committee (at least 5 people

in total, and at least half of the committee members have to be experts from the relevant industry). Through public display and defense, the review committee shall decide whether the student concerned is eligible to apply for dissertation defense based on the implemented system.

3. A doctoral student who has met condition stated in Article IV-2. can proceed to invite 5 to 9 scholars or experts of related fields through the school to form the Dissertation Defense Committee for dissertation defense.

V. Please refer to related regulations by the Ministry of Education and the NTU authority for unspecified issues.

VI. These regulations and requirements will be implemented after being adopted by the Institute Council, as will amendments when they are made.