

National Chiao Tung University Department of Applied Mathematics

Regulations for Master Students

In case of discrepancy with the Chinese version the latter shall prevail.

1. The department offers two master degree programs — “Analysis and Geometry” and “Combinatorics”, with separate recruitments. Inter-program transfer within the first year will not be possible; however, students who have completed at least 6 credit hours of the suggested courses of their program (3 credit hours for each semester) and have applied for a transfer during the second half of the academic year may be able to transfer after approval by the course committee.
2. Master students are expected to find their thesis advisor before the beginning of the second half of their first academic year. The thesis advisor must be approved by the course committee. After approval, enrollment may be renewed. Thesis advisors must be department professors; under special conditions, where students find it necessary to have a thesis advisor from other departments or other universities, a department professor must agree to co-advise. The department chair is responsible to assist in finding the co-advisor when necessary. Changing the thesis advisor should be approved by the course committee.
3. Master students are required to finish their studies within 2 to 4 years, and working students have 2 to 5 years. 24 credit hours of courses must be completed. Outstanding students can either apply directly for entering and studying in the doctoral program or for graduation within one year. Students with outstanding performances applying for graduation within 1 year must have the approval of an elite qualification panel (panel members should be scholars in the relevant field and must be appointed by the course committee). All students should commit in full-time studies with the exception of working students. With the permission of the thesis advisor and the department chair, working students may reduce the time spent in the department; however it cannot be less than half of full-time.
4. Credit hours which master students earned from taking graduate courses prior to enrollment and which were not counted as bachelor degree graduation credits might be waived upon approval by the course committee. The amount of waived credit hours should not exceed 6 hours. However, the total number of waived credit hours which are obtained from courses not being taught by faculty members in the Department should not exceed the maximum of 6 credit hours.
5. After completing the required courses and having finished the master thesis, students may apply for their master degree exam. The exam committee members (3 to 5, thesis advisor included) should be recommended by the thesis advisor and members should hold at least a post doctoral research position, assistant professorship or the title of an assistant researcher at Academia Sinica. At least one third of the committee members should be from outside the department or from other universities.

After approval by the course committee, the final selection and decision will be made by the university president.

6. After passing the master degree exam, students will be able to apply for the master title. Those who failed to pass and haven't reached the maximal length of study will be able to retake the exams before reaching expiration. The exam can only be retaken once; those failing the second exam will be expelled.
7. Those wishing to gain permission to study ahead in the department's doctoral program should hand in their application during the sign-up for the university doctoral program entrance exam, and will have to go through the exam process with the rest of the examinees. After passing these exams, the applicant may start the application procedures according to the university regulations.
8. If master degree students who study ahead in the doctoral program wish to transfer back into the master degree program, they'll have to go through an assessment by the course committee and the approval of the university.
9. The department master degree course regulations are as follows:
 1. Common compulsory: passing the "Graduate Seminar" at least two times.
 2. Individual compulsory:
 - (a) "Analysis and Geometry program": two semesters of "Real Analysis", a total of 6 credit hours.
 - (b) "Combinatorics program":
 - Have to pass "Topics in Discrete Mathematics" at least two times.
 - One semester of "Graph Theory", a total of 3 credit hours.
 3. Individual compulsory:
 - (c) "Analysis and Geometry program":

The student has to complete "Real Analysis (I)". In addition, the student has to select and complete a course (which is of 3-credit hours) among the following list: "Real Analysis (II)", "Ordinary Differential equation I", "Ordinary Differential equation II", "Partial Differential equation I", "Partial Differential equation II", "Modern Algebra I", "Modern Algebra II", "Advanced Probability Theory".
 4. Topics or issues not covered by this regulation will be determined by the degree-granting law, other rules and the university master and Ph. D. degree granting policy.
 5. This regulation is set by the department course committee, and is put into practice after being examined by the college and university course committees and being approved by the academic affair meeting. The same inspection will take place when alterations are being made.