

National Sun Yat-sen University  
Department of Computer Science and Engineering  
Regulations of Degree Examinations for Master’s Program in  
Computer Science and Engineering and Information Security  
(Applicable to students enrolled from Academic Year 2022 to 2023)

Amended and approved at the Department General Meeting on January 8, 2003  
Amended and approved at the College General Meeting of the College of Engineering on March 25, 2003  
Amended and approved at the Department General Meeting on May 4, 2005  
Amended and approved at the College General Meeting of the College of Engineering on June 29, 2006  
Amended and approved at the Department General Meeting on October 27, 2010  
Amended and approved at the College General Meeting of the College of Engineering on December 15, 2010  
Amended and approved at the Department General Meeting on February 15, 2012  
Amended and approved at the Department General Meeting on March 14, 2012  
Amended and approved at the College General Meeting of the College of Engineering on March 28, 2012  
Amended and approved at the Department General Meeting on April 18, 2014  
Amended and approved at the Department General Meeting on June 6, 2014  
Amended and approved at the College General Meeting of the College of Engineering on June 13, 2014  
Amended and approved at the Department General Meeting on June 19, 2017  
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Amended and approved at the College General Meeting of the College of Engineering on August 27, 2019  
Amended and approved at the Department General Meeting on May 8, 2020  
Amended and approved at the College General Meeting of the College of Engineering on May 25, 2020  
Amended and approved at the Department General Meeting on March 17, 2021  
Amended and approved at the College General Meeting of the College of Engineering on July 19, 2021  
Amended and approved at the Department General Meeting on May 2, 2022  
Amended and approved at the College General Meeting of the College of Engineering on July 13, 2022

I. The Regulations of Degree Examinations for Master’s Program in Computer Science and Engineering and Information Security (hereinafter referred to as “the Regulations”) are formulated in accordance with the Degree Conferral Act of the Ministry of Education and the Academic Regulations and Implementation Bylaws for Ph.D. and Master Degree Examination of National Sun Yat-sen University (hereinafter referred to as “NSYSU”).

II. Relevant matters during the study:

A. Study duration: One to four years in compliance with the requirement of the Ministry of Education (excluding deferred enrollment and voluntary suspension periods).

B. A minimum of 28 credits (including compulsory courses) is required for graduation.

C. Credit and course requirements:

1. Common compulsory courses: Seminar (I) to Seminar (IV).

Students are not able to take compulsory courses due to being recommended for an overseas exchange program by NSYSU or pursue a dual degree or overseas study for two months or longer at their own expenses, they may apply for course substitution for compulsory courses to fulfill credit requirements for graduation.

2. Professional compulsory courses:

a. Master Program in Computer Science and Engineering: At least two of the following professional compulsory courses must be completed before graduation: Very-large-scale Integration Designs, Computer Architectures, Advanced Computer Networks, Algorithms Design and Analysis, Advanced Operating Systems.

- b. Master Program in Information Security: At least one of the following fundamental compulsory courses must be completed before graduation: Computer Architectures, Advanced Computer Networks, Design and Analysis of Algorithms, and Advanced Operating Systems. At least three of the following core compulsory courses must be completed before graduation: Secure Cryptographic Protocols, Digital Signature Schemes and Applications, Cryptography, Secure Programming, Hack Technology and Computer Forensic, Network Security and Information Security Theory and Practice.
- 3. A maximum of six credits earned from projects or research project courses can be accumulated for graduation.
- 4. A maximum of three credits earned from courses instructed in English offered by the Department of Computer Science and Engineering (hereinafter referred to as “the Department”) can be accumulated for graduation.
- 5. Students are required to meet one of the following English proficiency requirements for graduation:
  - A. Achieve the specified score for one of the following examinations (the exam date must fall within two years prior to enrollment):
    - (a) Test of English for International Communication (TOEIC) score of 600 or above;
    - (b) Passing the listening and reading test of High-Intermediate Level of the General English Proficiency Test (GEPT) or above;
    - (c) TOFEL ITP score of 500 or above;
    - (d) TOFEL-iBT score of 61 or above;
    - (e) International English Language Testing System (IELTS) band score of 5 or above.
  - B. Take and pass a course instructed in English specified by the Department Curriculum Committee. Credits earned in this case will not be accumulated for graduation.
- 6. Application for oral defense can only be made after the English proficiency requirement set by the Department is met.
- D. Advisor assignment:
  - 1. A student shall choose a full-time faculty member at the rank of assistant professor or above from the Department as the advisor.
  - 2. If a student has to choose a faculty member from another department due to special circumstances, one full-time faculty member of the Department at the rank of assistant professor or above must be chosen as the co-advisor. When co-advising from another department is required, the student shall obtain consent from the advisor and provide a written statement to the Department.
  - 3. If students need to change their advisors due to special circumstances, they must obtain consents from their original advisors and the Department Academic Committee. Application for degree examination can only be submitted after one year of change of advisor.

### III. Master’s degree examination:

Definition of semester: The fall semester starts from August 1<sup>st</sup> to January 31<sup>st</sup> of the following year. The spring semester starts from February 1<sup>st</sup> to July 31<sup>st</sup>.

A. Thesis review:

A student is required to submit a thesis report for review and meet the following requirements prior to the oral defense:

1. A report shall include research title, motivation, literature review, research purpose, research methods, research procedures, research outcomes, research contributions, references, and etc.
2. Advisors shall convene review committees for each submitted report. Each review committee shall consist of three to five faculty members of the department or of other departments or universities. Review committee shall approve or disapprove applicants based on their written reports. When necessary, review committee may ask applicants to deliver oral reports. During review process, approval may only be finalized when two-thirds of or more review committee agree with assessment result as "Pass."
3. A graduating student is required to complete the thesis review procedure before March 31<sup>st</sup> in the year of graduation, otherwise, his or her oral defense will be postponed for at least one semester. A student who delays his or her graduation needs to complete the thesis review procedure at least one month prior to his or her oral defense.

B. Oral defense:

1. The degree examination committee shall consist of three to five members, including at least one member servers at other departments or universities.
2. Students who fail to pass degree examinations (oral examinations) with unfinished study periods may attend the oral examinations again next semester or next academic year. Each student may only be re-examined once. Students who fail re-examinations will face withdrawal from the university.

IV. Graduation: Students who meet all requirements stipulated above may apply for graduation.

V. The Regulations shall be implemented following approvals of department general meetings and college general meetings, as well as the authorization of the president. The same procedure shall be carried out when amendments are to be made.