

Department of Computer Science and Information Engineering

Contact Information

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Introduction

The Department of Computer Science and Information Engineering offers bachelor's, master's, and doctoral degrees with special emphasis in all fields of computer science and engineering. Currently there are approximately 200 undergraduate students and 150 graduate students enrolled. Undergraduates typically must score in the top 10% of the National Academic Achievement Examination to be accepted into our program. Our graduate students are generally in the top quarter of their undergraduate class.

There are 18 full-time faculty in our department. Faculty members are also active researchers in their respective fields. Our faculty's research falls into three general fields: Computing Systems, Computer Networking, and Multimedia Systems. This department consistently receives many research grants sponsored by the Ministry of Science and Technology. In addition, we are engaged in several industry-sponsored research projects, including a long-term collaborative project with Intel.

Our students are the frequent recipients of research awards and programming competition awards. They

become researchers, engineers, and educators in a host of fields related to computer science. Dr. Aja Huang, who is a principal research engineer for Google's DeepMind and AlphaGo Project, is one of our PhD graduates.



Instructional Objectives

The department aims to develop students with strong professional and collaboration skills and outstanding creativity. Courses offered for undergraduate students give them a solid foundation in the basics of Computer Science and Information Engineering (CSIE). In addition to our core courses, the department also offers a wide range of elective courses in many different fields, including: Artificial Intelligence (AI), Data Mining, Internet of Things (IoTs), Image Processing, Speech Processing, Computer-Aided Design for VLSI, Wireless Networks, and many more.

Our graduate and PhD programs further enhance our students' research abilities and prepare them to become scholars and leaders in computer science related disciplines. Once graduated, our students are able to share their scientific passion with the world and greatly contribute to their communities and industries.

Degree Requirements

Our department offers a wide range of courses for students from different programs. Students have flexibility when it comes to planning their studies around their interests and capabilities.

Undergraduate program

Course Categories	University Requirements	Department Requirements	Field Requirements	Others	Total
Required Credits	28	39	36	25	128

(Students can select courses from five fields, at least one course in each field, to fulfill the 36-course credit field requirement.)

Master's program

Course Categories	Department Requirements	Field Requirements	Others	Total
Required Credits	3	6	18	27

(Students can select two courses from one of the three fields to fulfill the 6-course credit field requirement.)

Ph.D. program

Course Categories	Department Requirements	Others	Total
Required Credits	4	18	22

Feature of the Curriculum

- Students have many opportunities to work on industrial/government projects and receive internships in international companies.
- Students enjoy research grants and have achieved excellent results in the course on special topics in computer science.
- Videos of all required courses are online for students to access anytime, anywhere.
- Experienced teaching assistants (TA) provide great help inside and outside the classroom.
- We have department-to-department dual degree master's programs and student exchange programs with Uppsala University, one of the top universities in Sweden.

Career Prospects

MS and BS graduates traditionally become engineers in the computer and information industries. Many are currently working as middle management in well-known companies that include IBM, Intel, Philips, Microsoft, HTC, Acers, and Asus. Others have become K-12 computer teachers, cultivating computer scientists of the next generation. Our PhD graduates have mostly gone on to become faculty in other universities in Taiwan or are employed in leading positions in companies such as Google, Microsoft, Intel, and IBM.

