

Hangzhou Normal University Undergraduate Program in

Computer Science

(For International Students)

I. Department Overview

The Computer Science Department in Hangzhou Normal University was founded in 1996 and is joined by the Digital Media and Human-Computer Interaction Institute, the Information Security Institute, and the Software and Information Service Center.

The B.S. program in Computer Science covers both a solid core of Computer Science courses and the ability to gain substantial depth in engineering through a required training and corporation experience. The curriculum provides choices for science and engineering courses. Its mathematics and probability courses ensure that students have the tools to remain current as technologies and systems change.

Due to the ongoing R&D projects within the Department, many students obtain part-time or summer jobs, or receive independent study credit, and gain insight into the practical issues of building and maintaining systems.

II. Training Objectives

The Computer Science Department strives for excellence in imparting and applying knowledge in computer science and engineering through comprehensive educational programs, practical training and research in collaboration with industry and government. Our main educational objective is to make in-depth and valuable contributions to design, development, and production in the practice of computer software systems and related engineering or application areas, to demonstrate strong self-learning and self-problem solving abilities, communication skills and the ability to function effectively as part of a team, to demonstrate a sense of societal and ethical responsibility in all professional endeavors.

III. Core Courses

Discrete Mathematics, Principle of Circuits, Programming Fundamentals,

Object-Oriented Programming, Computer Principles, Data Structure, Algorithm Analysis and Design, Database principles, Operating System, Computer Networks, Software Engineering

IV. Main Internship and Practice

Including apprenticeship, project practice, internship and thesis.

V. Length of Schooling, Degree and Credits Requirements for Graduation

1. Length of Schooling: The length of schooling is flexible, generally it lasts four years. The students can graduate one year in advance or within six years
2. Degree Conferred: a Bachelor of Engineering degree in Computer Science
3. The Graduation Credits: 136
4. Pass HSK 4 (new format) (score 180)

VI. The curriculum and distribution of credits

1. Curriculum: Teaching is divided into theoretical and practical teaching. Among them, the theoretical teaching is compulsory, and students may choose some elective courses from other departments, which is not compulsory.
2. A list of the credit allocation

Table 1: List of the Credit Allocation

Semester	Number of Courses	Credits	Hours	Credit Ratios
I	7	23	368	16.9%
II	7	25	400	18.4%
III	7	18	288	13.2%
IV	7	18.5	296	13.6%
V	7	16.5	264	12.1%
VI	6	14	224	10.3%
VII	2	13	416	9.6%
VIII	2	8	256	5.9%
Total	45	136	2512	100%

3. The curriculum and course arrangement

Table2: Curriculum and Course Arrangement

Semester I		
Course	Credits	Hours
Chinese Survey	1	16
Elementary Chinese I	4	64
Elementary Chinese Listening and Speaking I	4	64
Advanced Mathematics	4.5	72
Linear Algebra	2.5	40
Introduction to Computer Science	2	32
Programming Fundamentals	5	80
Semester III		
Course	Credits	Hours
Intermediate Chinese I	2	32
Intermediate Chinese Listening and Speaking II	2	32
Operating System	3	48
Data Structure	3	48
Data Structure Projects	2	32
Algorithm Analysis and Design	3	48
Computer Principles	3	48
Semester V		
Course	Credits	Hours
Advanced Chinese I	2	32
Advanced Chinese Listening & Speaking I	2	32
Software Engineering	3	48
Probability and Statistics	2.5	40
Applied Cryptography	2.5	40
Introduction to Cloud Computing	1.5	24
Computer Graphics	3	48
Semester VII		
Course	Credits	Hours
Project Practice	10	320
Thesis	3	96

Semester II		
Course	Credits	Hours
Elementary Chinese II	4	64
Elementary Chinese Listening and Speaking II	4	64
Discrete Mathematics	3	48
Database Principles	4	64
Object-Oriented Programming	4	64
Digital Logic	4	64
Information Technology Practice	2	32
Semester IV		
Course	Credits	Hours
Intermediate Chinese II	2	32
Intermediate Chinese Listening and Speaking II	2	32
Computer Networks	3	48
Web Programming	4	64
Introduction to Internet of Things	1.5	24
Mobile Application Development	4	64
Professional Practice	2	32
Semester VI		
Course	Credits	Hours
Advanced Chinese II	2	32
Advanced Chinese Listening and Speaking II	2	32
Data Mining	2	32
Network and Information Security	3	48
Human-Computer Interaction and Virtual Reality	3	48
Apprenticeship	2	32
Semester VIII		
Course	Credits	Hours
Internship	5	160
Thesis	3	96

Note: Students who have passed HSK3(new format) will be exempt from Elementary Chinese, Elementary Chinese Listening and Speaking; Students who have passed HSK4(new format) will be exempt from Elementary Chinese, Elementary Chinese Listening and Speaking, Intermediate Chinese, Intermediate Chinese Listening and Speaking. Those students can get the credits of corresponding courses after confirmation.