

## 计算机科学与技术

### Computer Science and Technology

#### 一、培养目标 Training Objectives

本专业按照“厚基础、宽口径、高素质、强能力”的要求，采用大专业、小方向、模块化、导师制的人才培养模式，培养具有良好的思想道德素质、身体素质和心理素质，掌握与信息技术相关的自然科学和数学知识，系统地掌握计算机科学与技术的基本理论、基本技能与方法，较熟练地使用 IT 技术解决实际问题，并具有一定的项目分析与管理能力，具有创新精神的高素质应用型 IT 人才。能从事计算机科学与技术研究、计算机应用系统设计与开发工作，具有较强竞争力的高级工程技术人才，以及与计算机科学与技术相关的管理人才。

According to the requirement of “Deepening foundation, Widening caliber, Improving quality, Extending capability”, by adopting a talent training mode of broad major, subdivided direction, modularization and tutorial system, this major aims to cultivate high-quality and practical talents who are equipped with good political mentality, moral and psychological quality, master knowledge in natural science and mathematics related to information technology, master the basic theory, basic skills and methods of computer science and technology systematically, can use IT technology to solve practical problems skillfully, and possess ability of project analysis and management, and have a spirit of innovation. It also cultivates talents who are able to engage in computer science and technology research, design and development of computer application system, have high competitiveness and advanced engineering technology, and management talents related to computer science and technology.

#### 二、基本规格 Basic Specifications

系统掌握本专业的基础理论和基本技能，了解学科专业发展的趋势，获得初步的科研训练，具有一定的人文素养和科学素养、良好的心理素质和科学思维方式。掌握一门外国语，具有一定的听、说、读、写、译的能力，能较熟练地阅读本专业的外文书刊。

Students are required to master the basic theory and basic skills of this major systematically, understand development trends of related subjects, get preliminary

research training, have certain cultural and scientific quality and develop good psychological quality and scientific mode of thinking. They are also required to master a foreign language, develop a certain ability in listening, speaking, reading, writing and translating and be able to read foreign books and periodicals of this major proficiently.

### 三、学制与学位 Length of Schooling and Degree

#### 1. 学制与修业年限 Length of schooling & Study duration

标准学制为四年，在校修业年限四年制为 3-6 年。

The standard length of schooling is four years. Study duration can be 3-6 years.

#### 2. 最低毕业学分和授予的学位

#### Minimum Credits for Graduation and the Degree Awarded

最低毕业总学分为 160 学分，授予工学学士学位。

The minimum credits required for graduation is 160 credits; Bachelor's Degree in Engineering will be awarded.

### 四、主干学科和主要课程 Main Subjects and Main Courses

主干学科：计算机科学与技术，信息与通信工程，电子科学与技术。

Main subject: Computer Science and Technology, Information and Communication Engineering, Electronic Science and Technology

核心课程：程序设计、数据库原理、数据结构、计算机网络、计算机组成、操作系统、工程软件、离散数学。

Core courses: Program Design, Database Principles, Data Structures, Computer Networks, Computer Components, Operating Systems, Engineering Software, Discrete Mathematics

学位课程：大学英语 I - II、数据结构、数据库原理、计算机网络、操作系统。

Degree courses: College English I - II, Data Structures, Database Principles, Computer Networks, Operating Systems.