

Education Plan for Academic Graduate in Computer Science & Technology

(Discipline Code:0812,Award Master Degree of Engineering)

□. Objectives

1. Abide the law, form a good character, behave honestly and trustworthy, strictly and corporately, and maintain good research ethics and professionalism.
2. Master broad and solid basic theories and systematically in-depth specialized knowledge of the discipline, be qualified in higher levels of teaching, researching, engineering technology and technological management and can make innovative achievements in the discipline or specific technology.
3. Master a foreign language, can skillfully read professional foreign language materials and write papers.
4. Maintain a good physical and mental health quality.

II. Disciplinary Research Areas

1. Computer System Architecture
2. Computer Software and Theory
3. Computer Application Technology

III. Educational System and Years of Study

The educational system for a full-time academic graduate is three years and the study period lasts generally three years, no more than five years.

IV. Curriculum System and Credit Requirements

The total credits for academic graduates should not be less than 27 credits, where the public degree course credits are not less than 11 credits, the professional degree course credits are not less than 6 credits, the compulsory courses credits are not less than 5 credits.

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
Degree Courses Public	003281001	First Foreign Language(Chinese)	108	6	1 2	School of Internation Education	
	003281002	Introduction to China	54	3	1	School of Internation Education	
	01421062	Matrix Theory	36	2	1	School of Science	

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
	01421063	Applied Mathematical Statistics	36	2	1	School of Science	At least 2 courses required
	01421064	Stochastic Process	36	2	2	School of Science	
	01421066	Mathematical Model	36	2	2	School of Science	
Professional Degree Courses	01021802	Advanced Principal and Technology of Artificial Intelligence	54	3	1	School of Computer Science	
	01021803	Modern Computer Architecture	54	3	1	School of Computer Science	
	01021804	High-Performance Computer Networks	54	3	1	School of Computer Science	
	01021805	Modern Software Engineering	54	3	1	School of Computer Science	
	01021806	Modern Database Technologies	54	3	1	School of Computer Science	
	01021808	Introduction of Reliability Engineering	54	3	1	School of Computer Science	
	01021815	Computer Vision	54	3	2	School of Computer Science	

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
Elective Courses	01022801	Fundamentals of Algorithms	36	2	1	School of Computer Science	
	01022802	Advanced English in the Discipline of Computing	18	1	2	School of Computer Science	Required
	01022804	E-commerce and E-governance	36	2	2	School of Computer Science	
	1022805	Artificial Neural Network and Its Application	36	2	2	School of Computer Science	
	1022601	Combinatorics	36	2	1	School of Computer Science	
	1022602	Theory of Computational Complexity	36	2	1	School of Computer Science	
	1022604	ERP Principles and Practice	36	2	1	School of Computer Science	
	1022605	Formal Languages and Automata	36	2	1	School of Computer Science	
	1022608	Software Architecture	36	2	2	School of Computer Science	
	01022813	Knowledge Discovery and Data Mining	36	2	2	School of Computer Science	

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
	01022814	Software Development Pattern	36	2	2	School of Computer Science	
	01022816	Integration of Modern Information Systems	36	2	2	School of Computer Science	
	01022817	Mining of Massive Datasets	36	2	2	School of Computer Science	
	01022818	Development and Application of Embedded Systems	36	2	2	School of Computer Science	
	01022819	Design on Real-time Systems	36	2	2	School of Computer Science	
	01022821	Distributed Parallel Processing	36	2	2	School of Computer Science	
	01022825	Cloud Computing and Service Computing	36	2	1	School of Computer Science	
	01022606	Advanced Computer Graphics	36	2	1	School of Computer Science	
	01022609	IT Managing IT Projects	36	2	2	School of Computer Science	
	01022610	Network and Information Security	36	2	2	School of Computer Science	

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
	01022611	Multimedia Technology of Application	36	2	2	School of Computer Science	
	01022613	Localization Technology for IoT	36	2	2	School of Computer Science	
	01022614	Wireless Sensor Networks	36	2	2	School of Computer Science	
	01022615	Field Bus Technology	36	2	2	School of Computer Science	
	01022616	The Theorey and Application of Pattern Recognition	36	2	2	School of Computer Science	
	01022617	The Technologies towards Semantic Web	36	2	2	School of Computer Science	
	01022618	Grid and High Performance Computing	36	2	2	School of Computer Science	
	01022808	Web Practices of Web Data Management	18	1	1	School of Computer Science	At least 1 course required
	01022828	The Application of Cloud Computing	18	1	1	School of Computer Science	
	01022829	The Integrated design of Embedded system and IoT	18	1	2	School of Computer Science	
	01022830	The Design of Software Engineering Project	18	1	2	School of Computer Science	

Course Category	Course No.	Course Name	Hour	Credit	Semester	School	Remark
	01022831	Design of Information Security	18	1	2	School of Computer Science	
Interdisciplinary elective course	02223001	Taijiquan and its	18	1	1	Department of Physical Education	
Compulsory Courses	01024004	Thesis Proposal		1	3	School of Computer Science	
	01024005	Internship and Practical Training		3	1	School of Computer Science	
	01024006	Academic Activities		1	3	School of Computer Science	