

## 22. 软件工程 Software Engineering

Course Category 课程类别		Course title 课程名称	Credit 学分	Term 学期	School by which Courses opened 开课学院	Remark 备注
Degree Courses 学位课	Compulsory Subjects for All Students 公共必修	Overview of China 中国文化概论	3	1	Overseas Education College 海外教育学院	Compulsory 必修
		Chinese 汉语	4	1, 2	Overseas Education College 海外教育学院	
	Fundamental Theories 基础理论	Numerical Analysis 数值分析	2	1	Faculty of Science 理学院	Choose any two 必修 2 门
		Mathematic Statistics 数理统计	2	1	School of Finance 财经学院	
		Matrix 矩阵	2	1	Faculty of Science 理学院	
		Mathematical Logic 数学逻辑	2	1	School of Computer Science & Communication Engineering 计算机学院	
	Professional Foundation or Specialized Courses 专业基础课	Advanced Object-Oriented Technology and Application	4	1,2	School of Computer Science & Communication Engineering 计算机学院	Compulsory 必修
		Distributed computing technology	2	1	School of Computer Science & Communication Engineering 计算机学院	
	Specialized Elective Courses 专业选修课		Information Security	2	2	School of Computer Science & Communication Engineering 计算机学院
Human-Computer Interaction Technology			2	2	School of Computer Science & Communication Engineering 计算机学院	
Cryptography and Network Security			2	2	School of Computer Science & Communication Engineering 计算机学院	

		Principles and Techniques of Search Engine	2	2	School of Computer Science & Communication Engineering 计算机学院	
		Software System Design and Development	2	2	School of Computer Science & Communication Engineering 计算机学院	
		Machine Learning	2	2	School of Computer Science & Communication Engineering 计算机学院	
		Advanced Computer Network	2	2	School of Computer Science & Communication Engineering 计算机学院	
		Information Access and Retrieval	2	2	School of Computer Science & Communication Engineering 计算机学院	
		Image Processing	2	2	School of Computer Science & Communication Engineering 计算机学院	
		Applications of Wireless Sensor Network	2	2	School of Computer Science & Communication Engineering 计算机学院	
		Cloud Computing	2	2	School of Computer Science & Communication Engineering 计算机学院	
Selective for All 公共选修	Research and Information Literacy I 研究及信息素养 I	Literature Retrieval & Utilization	1	1	Graduate School Overseas Education College 研究生院 海外教育学院	Selective 任选
		Paper writing	1	2		
	Research and Information Literacy II 研究及信息素养 II	Patent application	1	2		
Practical Procedure 实践环节		Special Practice	2	2	School of Computer Science	

<b>Scientific Frontiers &amp; Symposiums</b> 学术前沿及学术交流		1	1, 2	& Communication Engineering 计算机学院	
<b>Supplementary Courses</b> 补修课程	Computer Organization principle	4	1 or 2	School of Computer Science & Communication Engineering 计算机学院	Two for Trans-disciplinar y students 跨专业补修 2 门
	Data Structure	4	1 or 2	School of Computer Science & Communication Engineering 计算机学院	
	Operating System	4	1 or 2	School of Computer Science & Communication Engineering 计算机学院	