附件2

**武汉大学全英文授课课程信息表（英文版）**

**Wuhan University Course Outline**

**School/Department: International School of Software**

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| **Course Name (Chinese)\*** | 计算机系统导论 |
| **Course Name (English)\*** | Introduction to Computer Systems |
| **Course Code\*** | 0800028 |
| **Availability\*** | Semester 1 □Semester 2 |
| **Course Hours\*** | 54 |
| **Credits\*** | 3 |
| **Course Description\*** | This course is the first professional course for students majoring in software engineering. It is also an introduction course to the curriculum of this major. The course will help students deepen their understanding of computer science and stimulate professional interest on the basis of a comprehensive introduction to the various aspects of computer systems. |
| **Course Objectives/Content\*** | Objectives:  1. To learn the fundamentals of computer hardware, computer software, network and computer security.  2. To gain exposure to future trends of information technology.  3. To gain a comprehensive understanding of software engineering, and lay the foundation for professional learning in the future.  Content:  Unit 1. Introduction. - Overview of computer systems; Evolution of computer system; Data representation in a computer system  Unit 2. Computer Hardware.- Processors; Memory; Storage devices; Peripherals  Unit 3. Operating System.- OS architecture; Process management; Memory management; Device management; File system  Unit 4. Application Software.- Software category; Software installation; Software copyright and licenses; Software development and engineering  Unit 5. Network.- Network architecture; Network protocols; Internet technology; Web and Email  Unit 6. Security.- Risk and security threat; Password security; Security software; Encryption |
| **Teaching Methods** | Lecture and classroom discussion  interactive problem solving. |
| **Assessment\*** | Final exam: 50%  Presentation: 20%  Quizzes: 20%  Attendance:10% |
| **Textbook(s)** | June J. Parsons, Dan Oja, New Perspectives on Computer Concepts , 2013 or 2014 Edition, China Machine Press. |
| **Reading** |  |
| **Prerequisites** | No |
| **Lecturer(s)** | Yang Min |

注：\*为必填。

**武汉大学全英文授课课程信息表（中文版）**

**学院: 国际软件学院**

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| **课程名称（中文）\*** | 计算机系统导论 |
| **课程名称（英文）\*** | Introduction to Computer Systems |
| **课程代码\*** | 0800028 |
| **授课学期\*** | 第一学期 |
| **学时\*** | 54 |
| **学分\*** | 3 |
| **课程简介\*** | 本课程是软件工程专业学生的第一门专业课，也是本专业全程教学内容的绪论。课程在全面介绍了计算机系统的各方面知识基础上，帮助学生加深对计算机学科的理解，激发专业兴趣。 |
| **课程目标、内容\*** | 课程目标：  通过本课程，学生们将学习计算机硬件、软件、网络以及计算机安全的基本知识；了解信息技术的发展趋势；对本专业有一个较全面的了解，为将来专业学习打下基础。  主要内容：  第一单元：绪论。主要内容包括计算机系统概论；计算机系统发展历程；计算机系统中的数据表示。  第二单元：计算机硬件。主要内容包括处理器；内存；存储系统；外部设备。  第三单元：操作系统。主要内容包括操作系统组织结构；进程管理；内存管理；设备管理；文件系统。  第四单元：应用软件。主要内容包括软件分类；软件安装；软件的版权和许可证；软件工程。  第五单元：网络。主要内容包括网络结构；网络协议；因特网技术；万维网和电子邮件系统。  第六单元：信息安全。主要内容包括分析和安全威胁；口令安全；安全软件；密码技术。 |
| **教学方法** | 课堂教学和讨论 |
| **考核方式\*** | 期终考试：50%  课堂展示：20%  课堂测验：20%  出勤：10% |
| **教材** | June J. Parsons, Dan Oja, New Perspectives on Computer Concepts , 2013 or 2014 Edition, China Machine Press. |
| **推荐阅读** |  |
| **先导课程** | 无 |
| **授课教师** | 杨敏 |

注：\*为必填。