《数据采集与存储》课程中英文简介

Data Acquisition and Storage

课程代码：071153B **Course Code：**071153B

课程名称：数据采集与存储 **Course Name：**Data Acquisition and Storage

学时：48 **Periods：**48

学分：3 **Credits：**3

考核方式：考查 **Assessment：**Assignment

先修课程：操作系统、大数据计算机基础 **Preparatory Courses：**Operating System、

程序设计基础及应用 Basic Compute on big data、Base and

Application of Programming

《数据采集与存储》是为信息管理与信息系统专业（大数据应用）和统计专业（大数据分析）的本科生所开设的专业课程。通过本门课程的教学，使学生掌握大数据的各种采集方法和存储方式及其应用；了解基于传感器和通信接口的数据采集方式和基于网络的数据采集方式；探索大数据构建过程中数据源信息的采集及其应用。教学过程中，采取理论和实践教学相结合的方法，通过理论学习使学生明确数据采集与存储的基本理论和方法，通过上机实验强化同学对理论内容理解和应用，达到知行合一、互相补充目的，为进一步学习后续的专业知识奠定基础。

本课程是一门大数据应用和大数据分析方向的专业基础课程，它阐述了传感器数据采集方法、集成板卡式数据采集方法、通信接口控制、二维码数据采集方法、网络爬虫数据采集方法和云模型数据采集方法以及序列化存储、数据库存储和云模式存储等内容。

"Data acquisition and memory" is a course of information management and information system major ( big data application ) and statistics major (big data analysis). The course can make undergraduates to learn methods to acquire and save data, know collecting methods based on sensors and online, search for methods to construct big data database. In the process of teaching undergraduates can get basic theory and methods, and the application and comprehension on big data will be consolidated by experiments. In a word the course will set on solid foundation for the future study.

For the major of application and analysis on big data the course is a basic course, which includes method on the base of sensors, integrated cards, communication interface, 2-D code, crawling worm and cloud model, serialization storage