LIS 506 - Introduction to Information Technology Fall 2013, Section A, Dr. Jianqiang Wang

Work Products and their Learning Objectives

Coursework Item	Learning Objectives	LIS Program Objectives ¹
HW1: Understanding Computer CPU, RAM, and Hard Disk	 Calculate the speed of RAM and hard disk in processing data Compare the speed and storage capacity of RAM and hard disk Define the storage hierarchy 	2.4
HW2: Finding Authoritative Information on the Web	 Master techniques for finding and verifying information on the Web: Exploring hyperlinks contained in a Web page; URL trimming Domain name lookup Traceroute 	1.1 2.4 3.5
HW3: Creating a Simple Personal Web Page	 Master the basic syntax of HTML, including defining document structure (title, heading, paragraph, etc.), creating hyperlinks, embedding images, and creating lists. Master the basic syntax of CSS, including setting different colors and fonts Publish Web pages through a Web server (e.g., UBFS personal Web space) 	2.4
HW4: Adding Images, Audio, and Video to your Web Pages	 Create and embed audio in Web pages Embed video in Web pages Create and add clickable images 	2.4
HW5: Adopting a JavaScript	 Learn the basic syntax of JavaScript programming, including how to define variables, control structures, functions, and events Make light modifications to other people's JavaScripts 	2.4

¹ Refer to the LIS Objectives at:

http://gse.buffalo.edu/gsefiles/documents/departments/LISObjectivesShortCouncilApproved20111006.doc

HW6: Building a Simple Library Database	 Define basic concepts of relational databases, including entity, attribute, relationship, data model, data redundancy, and normalization Identify key components of relational database management system (DBMS), including field, record, table, and query Apply relational database approach to simple problems (i.e., problems that can be modeled with three tables or so) Master the basic functions of Microsoft Access, including those for creating databases, tables, fields, and queries 	2.1 2.4
Team Project	 Identify and define an information problem Design (include prototype) a Web site to address that information problem Apply and integrate key information technologies, including Web-based content delivery (i.e., HTML and CSS), programming, relational database, and Web 2.0 Collect and create information, with an eye on the legal implications such as copyright and fair use Organize and present information via Web pages and Web sites Develop skills for technical writing, presentation, and demonstration Develop teamwork skills, including collaboration, communication, task allocation, scheduling, and project management Develop personal qualities, including initiative, self-motivation, creativity, dependability, adaptability, respectfulness, persistence, and integrity. 	1.1 2.1 2.4 3.3 3.5 5