

**IDS 413: Internet Technology and Management**  
**Course No. 21608, Spring 2005**

**Lecture Times:** TR 9:30AM -10:45AM at DH210

**Class Web Site:** blackboard.uic.edu/

**Instructor:** Dr. Wenxaun(Amy) Ding  
Office: UH2410,  
Email: dingcmu@yahoo.com  
Office hours: TBA, you are welcome to email at any time.

**TA:** TBA

**Course Description.** Today's business decision-makers must understand Internet technology well enough to make appropriate decisions. This course introduces the technical concepts underlying current and future information system, with emphasis on internet-related technologies. The course begins with Internet business architecture, it then moves to technologies that underlie the World Wide Web including languages of the Internet, search, Web content development, personalization, knowledge discovery, on-line transaction processing, privacy, and information security.

**Audience.** The course is suitable for students in accounting, finance, marketing, operational management, and information system majors who wish to gain an understanding of what modern IT is, how it works, and what goes on behind the scenes of electronically enabled business

**Prerequisites.** The prerequisites for this course are (1) the successful completion of IDS 400 and IDS 410, (2) a basic knowledge of the Windows 98/NT/2000/XP operating systems, (3) experience with a web browser and a FTP program, and (4) experience with Structured Query Language (SQL), Microsoft Access database package, and Microsoft Jet database engine.

**Required Textbook**

Web design and development for e-business, 1<sup>st</sup> edition, Jensen Zhao, Prentice Hall, ISBN 0130417173, 2003.

**Software.** Depending on students' backgrounds and interests on learning web programming, an intelligent virtual lecture-theatre system will be used in this course to help students on programming skills.

**Lecture Notes.** Slides will be posted on Blackboard. <http://blackboard.uic/>.

**Recommended materials.**

- **The Tech Encyclopedia** (<http://www.techweb.com/encyclopedia/>) is an on-line version of The Computer Desktop Encyclopedia. It has (sometimes in-depth) descriptions of many IT concepts and terms.
- **The Software Technology Review** (<http://www.sei.cmu.edu/str>) at the [CMU Software Engineering Institute](#) is a directed guide containing the latest information on approximately 63 software technologies.

We encourage you to use these two valuable resources to clarify unanswered questions and to go beyond the material covered in class, according to your own personal interests.

### **Course Requirements:**

**Lectures.** While we provide lecture slides and written materials, much of the content of this course is delivered verbally in the Tuesday and Thursday lectures. You are responsible for all material assigned or conveyed in lectures. What appears in the lecture note may or may not reflect what is covered in class, since class discussion may lead the lecture down a different path. Students should not assume that either the notes or the lectures, alone, are sufficient.

**Project.** The project will help you apply IT concepts and technique skills to real complex business situations. The team presentation will improve your professional skills of presentation and give you experience working in a team. In this semester-long project, you will pick a company/product/technology that you believe will be important in the near future and make a case for it, by writing a report and giving a class presentation at the end of the semester. The project CANNOT be a completed project from other courses. Each group has 4 students. The detailed project description will be explained separately.

**Homework assignments.** Each assignment is due at the beginning of class on the due dates. No late homeworks will be accepted. And instructor will not accept work by fax, e-mail or other non-traditional submission.

**Grading** is based on class participation, homeworks, exams, and a project. Below is a summary of grading criteria

- **Midterm Exam (20%) and Final Exam (20%).** The exams encourage you to study the basic material (definitions and applications of concepts), i.e., the text and lectures. Both exams will cover material from the lectures and readings up to the day of the exam. All exams will be closed book and closed notes.
- **Project and Group Presentations (30%).** The final written report will be 15%, and presentation will be 15%. The grade of group presentation will be determined by the instructor and a peer group. **Free riders on projects will receive failing grades for projects.**
- **Homework Assignments (25%).** Where 5% for each homework assignment.

- **Class Attendance and Class Participation (5%).** These class participation points are given to encourage your active class participation and discussion. *Presence:* Although it is not required, most students send their professor a brief e-mail to explain their absence in advance. Students who repeatedly arrive late to the lecture will have their Class Participation grade lowered. Please sign the attendance sheet when you come to the class. Any false signatures will result in zero participation grades for all parties involved.

**Important:** Only official medical excuses will be accepted as a reason to miss deadlines and exams. Homework assignments are due at the beginning of the class on the day they are due. Late assignments are not graded unless accompanied by a documented medical excuse.

**Rules.** This course and its associated coursework are being administered under the policies of the University of Illinois at Chicago (UIC) College of Business Administration Honor Code. All students are expected to respect and uphold this code.

## **Tentative Course Schedule**

### **Module 1. Fundamentals of Computer Systems, Databases, and Networking**

This module introduces the evolution of computing, the power of databases, the Internet, its architecture and how it works. Privacy principles and technologies for information security

### **Module 2. Information Retrieval & Search Engines**

Searching the Web, Web statistics, data mining and knowledge discovery

### **Module 3. Foundation of Web Design and Development**

This model provides basic Web design principles and a Web design model to show how to design and develop a simple web site including graphic design.

### **Module 4. Web Servers and Internet**

This model introduces languages of the Internet, Client /Server Technologies. In addition to normal classroom lecturing, students will have a chance to use an intelligent virtual lecture-theater system to practice their web programming skills such as learning markup language, client-/server-side programming languages.

### **Module 5. Web-based applications**

This model focuses on developing dynamic, interactive, data-driven e-business applications. We will show how to develop Web-based financial analysis and forecasting tools for Internet sites.

## **Project Presentation**

**Note:** Any of the above including topics and evaluation are subject to change. It is a student's responsibility to keep up to date with course related announcements.