

IDS 413: Internet Technology and Management

Course No28980, Fall 2008

Class Time: 11:00AM -12:15PM

Place: SES 205B/C

Instructor: Professor Amy Ding
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Course Description. Today's business decision-makers must understand Internet technology well enough to make appropriate decisions. This course introduces the technical concepts underlying the current Internet infrastructure. The course begins with fundamentals of networking, distributed computing and web data management, then moves to technologies that underlie the World Wide Web including languages of the Internet, knowledge discovery, internet marketing, on-line transaction processing, and web 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 how the Internet 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.

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. You are required to take notes. Some lecture notes 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 Rules and Guidelines

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.

- **Group Project (25%).** Free riders on projects will receive failing grades for projects.
- **In-class Quizzes / Games (50%)**
- **Final Exam (25%).** Exam will be closed book and closed notes.

Rules: 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.

CBA Honor Code. 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. The full text of the CBA Honor Code is available at this link: <http://www.uic.edu/cba/Faculty/academicaffairs/honorcode.html>

Tentative Course Schedule

Module 1. Fundamentals of Networking, Computing, and Data Management

This module introduces fundamentals of networking, the principle of distributed systems, parallel computing, and data management.

Module 2. Web Security & Search Engines

Searching the Web, the working processes of a web server, Web 2.0, Web security.

Module 3. Foundation of Web Design and Development

This model provides basic Web design principles. A Web design model is introduced to illustrate the development of Web applications.

Module 4. Service Models and Transaction Processing Systems

This model introduces different types of service models and remote processes. 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 Business Applications

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

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.