

IDS 413: Internet Technology and Management

Course No. 21114, Fall 2005

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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 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.

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](http://www.sei.cmu.edu) 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.

- **Midterm Exam (20%) and Final Exam (30%).** 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.
- **Group Project (25%).** The final written report will be 10%, and system demonstration will be 15%. **Free riders on projects will receive failing grades for projects.**
- **Homework Assignments (20%).** Each assignment is due at the beginning of class on the due dates. No late homework will be accepted. And instructor will not accept work by fax, e-mail or other non-traditional submission.
- **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.

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 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.