Syllabus

Course Information
Course title: Knowledge Management for E-Business
Course number: INFS 770
Course discipline: Computer and Information Science
Course description: This course addresses the issues involved in creating Intelligent Enterprise. We will focus on topics related to knowledge creation and sharing; knowledge indexing; knowledge search; as well as knowledge dissemination, stewardship, and management. A knowledge management life-cycle model will be presented and discussed.
We will also address the emerging e-business frameworks, together with the challenges facing companies wishing to adopt e-business models, methods, methodologies, and architectures.
We will also explore the tools and techniques that enable knowledge management in organizations.
The topics covered in the course include:
- Knowledge Management: Organizational, Technological and Managerial Perspectives;
- Knowledge Management Life-Cycle Model and Framework;
- Organizational Domain Modeling and Ontology Building;
- XML (eXtensible Markup Language) and Web Services;
- The Semantic Web;
- Knowledge Representation Techniques and Business Rules; and
- Knowledge Search over Heterogeneous Data Sources.

Course date: Wednesday, January 24, 2007 through Wednesday, May 9, 2007
Location: Robinson Hall, B220
Meeting day(s): Wednesday
Meeting time(s): 4:30 to 7:10 PM
Prerequisite(s): INFS 622, or permission of Instructor.

Instructor Information
Name: Dr. Larry Kerschberg
Email: kersch@gmu.edu
Office location: Science and Tech Building 2, Room 459
Office hours: Wednesdays 2-4 PM, or by e-mail appointment
Phone: 703-993-1661
Teaching assistants: Juan (Judy) Luo

Grading Policy
Introduction: Your grade in the course will be determined by grades obtained in individual assignments; class participation (in-class attendance, discussion and WebCT participation); case study discussions focused on Knowledge Management Issues; a group research project and presentation; and a Final Exam.
The breakdown of the percentages are as follows:

<table>
<thead>
<tr>
<th>Grade Components</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Assignments</td>
<td>20</td>
</tr>
<tr>
<td>Class Participation</td>
<td>10</td>
</tr>
<tr>
<td>Case Study Discussions</td>
<td>10</td>
</tr>
<tr>
<td>Group Research Project</td>
<td>20</td>
</tr>
<tr>
<td>Group Research Presentation</td>
<td>15</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25</td>
</tr>
</tbody>
</table>

In the group research projects, students form teams to perform research dealing with topics relevant to the course theme. A mechanism for peer review of team members will be used to assess each member's participation in the project.
Textbooks

Web sites
INFS 770 URL: http://classweb.gmu.edu/kersch/infs770/
: This site was used until 2004 before we moved the course to WebCT. The Topics area may be of interest to you, although it is a bit out-of-date.