

SE-602 Technology Assessment

Spring 2006

Location: HH 547

Time: W 4:30PM – 7:15PM

Instructor

Jiacun Wang

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Office Hours: W 2:00-4:00. Other time by appointment

Course Objectives

This course covers the practicalities of assessing a technology for use in delivery of products and daily business use. It examines how new tools, processes, and training fit into an overall technology adoption decision. The objectives of this course are to prepare students for taking a leadership role in the adoption of a new technology within a corporate structure and to provide the student with methodologies for managing a technology.

Course Material

Because of the rapidity of change in this field of software engineering the instructor will assign the reading of papers published in software engineering journals and technical reports published by organizations doing research in this area.

Course Work

Students will work on a multi-phase project with activities related to technology adoption from needs definition to evaluation of readiness, impact and usability.

Grading

Participation	20%
Needs Assessment Report	15%
Readiness Assessment Report	15%
Risk Assessment Report	15%
Usability Assessment Report	15%
Final Assessment Report	20%

Class Participation

Class participation is strongly recommended. If you miss a class, it is your responsibility to find out what is covered and what announcements are made in the class.

Withdrawal

Last date to withdraw with automatic assignment of a "W" grade: March 27, 2006.

Academic Honesty

Everything you turn in for grading must be your own work. Academic dishonesty subverts the University's mission and undermines the student's intellectual growth. Therefore, we will not tolerate violations of the code of academic honesty. Penalties for such violations include suspension or dismissal and are elaborated upon in the Student Handbook.

Special Accommodations:

Students with disabilities who need special accommodations for this class are encouraged to meet with the instructor or the appropriate disability service provider on campus as soon as possible. In order to receive accommodations, students must be registered with the appropriate disability service provider as set forth in the student handbook and must follow the University procedure for self-disclosure, which is stated in the University *Guide to Services and Accommodations for Students with Disabilities*. Students will not be afforded special accommodations for academic work done prior to completion of the documentation process with the appropriate disability service office.

Tentative Course Content

- Technology Assessment Overview
- Technology Needs Assessment
 - Needs Assessment Methodologies
 - Needs Assessment Tools
 - Case Studies
- Technology Readiness Assessment
 - Overview of TRA
 - TRA Process
 - Measure TR Level
 - Case Studies
- Technology Value Assessment
 - Costs and Benefits
 - Case Studies
- Technology Impact Assessment
 - Qualitative Approaches
 - Quantitative Approaches
 - Case Studies
- Technology Usability Assessment
 - Usability Process and Methodologies
 - Usability Contextual Inquiry and Design
 - Usability Inspection and Design
 - Case Studies