CIS 400/401 Senior Project

Course Number & Title (A.1)	**CIS 400/401 Senior Project**
Credit Units (A.2)	1 CU
Instructor (A.3)	Insup Lee, Professor, lee@cis.upenn.edu , 602 Levine Hall, 215-898-3532
Text(s)/Required Materials (A.4)	No textbook is used as part of the CIS400 course. Given that student's select and research topics of their choosing; little reading is distributed. An initial packet contains general information about how to write professional technical documents (*e.g.*, "An ACM guide to citations" and "An Introduction to LaTeX"). A copy of this packet is available upon request.
Catalog Description (A.5a)	The goal of the senior design course is to provide students with an opportunity to define, design and execute a significant project. Project subjects may revolve around software, hardware, or computational theory. Students must have an abstract of their Senior Project, which is approved and signed by a Project Advisor early in the Fall semester. The project is expected to span two semesters; students must enroll in CIS 401 during the second semester. At the end of the first semester, students are required to submit an intermediate report and give a presentation describing their project and progress. Grades are based on technical writing skills (as per submitted report), presentation skills, and progress on the project. These are evaluated by the Project Adviser and Instructor.
Prerequisites (A.5b)	Senior standing or permission of instructor
Course Satisfies (A.5c)	[ ] Math [ ] Science [**x**] Engineering [ ] Technical Elective [ ] TBS **(check only one, UG curric impact only)** **Required**
Course Web	http://www.seas.upenn.edu/ ~cse400/CSE400_2010_2011/index.html
Course Outcomes (A.6a)	• The student will be able to implement a working system relevant to real world problems. • The student will be able to visually model project systems effectively. • The student will be able to leverage time-management skills for significant projects. • The student will be able to independently conduct a literature review for a topic. • The student will learn to professionally typeset documents using LaTeX. • The student will be able to effectively communicate their work in both written and oral form.
Contribution towards Program Outcomes (A.6b)	b,c,d,e,f,j,k
Topics Covered (A.7)	• Choosing a topic of appropriate scope. • Selection of a project advisor and additional team members. • Guide to using library resources for conducting technical research (Douglas McGhee). • Guide to typesetting documents using the LaTeX system. • Focus on how technical writing differs from other writing (*e.g.*, "literature").
Grading Details	For CIS 400 – Fall Semester 25% Preliminary Design Review 75% Design Document and Progress Report (Second Revision)
Prepared By/Date	Insup Lee, January 2011