Appendix: Course Delivery Report

SFTW 300 Software Psychology Fall 2006

Kam H. Vat Department of Computer & Information Science Faculty of Science & Technology

In this report ...

INTRODUCTION	2
COURSE CHRONOLOGY	2
COURSE OBJECTIVES	4
COURSE ASSESSMENT	6
COURSE MATERIALS	6
COURSE SOFTWARE	7
COURSE TUTORIALS	8
COURSE THEME PAPERS	8
COURSE POLICIES	9
COURSE RESULT	9
COURSE MEMORY	30
COURSE REFLECTION	30
COURSE EVALUATION	31

Please Turn Over!

INTRODUCTION

The fall-2006 design of this course provides the capstone project experience in software requirements management, including the prototyping of user interfaces, based on the state-of-the-practice principles of human-computer interaction. A student must have some programming experience in one or two programming languages, such as C++ and Java, to initiate the learning of graphical user interface (GUI) programming or prototyping work. Typically, this pre-requisite is fulfilled after taking the sophomore course of SFTW241 Programming Language Architecture (I).

The focus of this course is on the contextual design of interactive systems through team-based project development, written work, oral presentation, and classroom scenarios. The context of student coursework involves: problem formulation, user requirements study, system definition, usability analysis, prototyping, and evaluation of work produced. The purpose of the course is to ensure that a student participates in those phases of system development, including specific GUI and Web interface design. The course brings forth the real-world technique of interacting with the client from the software developer's perspectives, using the principles of user-centered design.

The course is project-driven and team-oriented. This means that students work as team participants collaborating with their respective team members. Participants are to have ample opportunity to learn and apply project management techniques and skills throughout the course. Students are provided with a semester problem statement that includes a set of deliverables that they are expected to turn in or present throughout the semester. As an instructor, I am responsible for providing the necessary skill-sets, and offering inspiration and motivation. But, it is the student's responsibility to be a self-starter and be willing to work effectively within a team environment. This is a junior-level class, and students are expected to perform and behave in a professional manner. Student's grade should depend on such an attitude since a portion of the grade is associated with both individual effort and team performance. An evaluation is also required from each student for each individual on the team at the end of each project milestone. In other words, each team member evaluates each person's performance; thereby, everyone must pull his or her own weight.

COURSE CHRONOLOGY

September-2006

PBL teams formation – an even number of teams to facilitate client-developer pairing; Client PBL teams each have about three weeks to study a system of interest;

Milestone #1: Each client team is to present its idea on system of interest;

Evaluation done for each PBL client team by the instructor;

Internal evaluation performed within each client team.

October-2006

Developer teams paired with their respective client teams;

No two teams become the client and developer of each other;

Client's requirements gathered for developer's elaboration;

Milestone #2: Developer's presentation of systems to be developed, after requirements workshop.

Evaluation done for each PBL developer team by the instructor

Internal evaluation performed by each PBL developer team

November-2006

Ongoing client-developer's joint application development for clarification with skeletal prototypes;

Memorandum developed to accommodate changes to be incorporated and not yet completed;

Milestone #3: Developer's presentation of system prototypes for client's perusal;

Evaluation done for each PBL developer team by instructor after the review session;

Internal evaluation performed by each PBL developer team.

December-2006

Client-developer meeting to prepare for system rollout (final prototype);

Negotiation leading to agreement on project closure;

Milestone #4: Developer 's final presentation of system to be delivered with client's acceptance;

Evaluation done for each PBL developer team by instructor;

Internal evaluation performed by each PBL developer team.

Taking into account the semester constraints, the following cut-off dates marked the four milestones of the SFTW300 course in this past fall:

September 20 – October 18, 2006 < Research Findings>

Milestone #1 Presentation on October (9, 10, 11, 12, 13, 16, 17, 18), 2006; afternoon from 1:00 – 2:00 p.m. at N401

October 19 - November 29, 2006 < Analysis Results>

Milestone #2 Presentation on November (15, 16, 22, 23, 24, 27, 28, 29), 2006; afternoon from 1:00 – 2:00 p.m. at L217-4

November 30 - December 31, 2006 < Reporting on Design and First Prototype>

Milestone #3 Presentation on December (30, 31), 2006; six sessions on Dec-30 from 9:30 – 5:15 p.m. with 45 minutes break for lunch, and two sessions on Dec-31 from 10:45 a.m. – 1:00 p.m. at Library Orientation Room (I).

January 1–19, 2007 < Reporting on Evaluation and Second Prototype>

Milestone #4 Presentation on January (18, 19), 2007; four sessions on each date, from 9:45 a.m. – 4:45 p.m. with two and half hours break for lunch at Library L217-4.

There were also three specific discussion/workshop sessions respectively devoted to:

October 31 - November 10, 2006

Milestone #2: *Requirements Workshop* initiated by developer team for client team on Oct-31, Nov (1, 3, 6, 7, 8, 9, 10), from 6:00 – 8:00 p.m. at Library L217-4; One date per client-developer pair.

December 1-13, 2006

Milestone #3: *Joint Application Development* sessions initiated by developer team for client team on Dec (1, 4, 5, 6, 7, 11, 12, 13), from 6:00 – 8:00 at Library L217-4; One date per client-developer pair.

December 18-21, 2006

Milestone #3: *Review (Project, Status, Peer)* sessions initiated by each developer team for instructor; each date with morning two sessions and afternoon two sessions, for each of the eight PBL teams, from 11:00 – 01:00 p.m. and 04:00 – 06:00 p.m.

To keep students informed of their progress in project-based learning, I have also provided three evaluation sessions, one after each of the first three milestone presentations:

Milestone #1 Evaluation Session: October (19, 20, 23, 24, 25, 26, 27, 31), 2006, from 1:00 – 2:00 p.m. at N401; one team per date.

Milestone #2 Evaluation Session: November (20, 21, 22, 23, 24, 27, 28, 30), 2006, from 6:00 p.m. – 7:30 p.m. at Library L217-4; one team per date.

Milestone #3 Evaluation Session: January (3, 4, 5, 8, 9, 10, 11, 12), 2007, from 6:00 p.m. – 7:30 p.m. at Library L217-4; one team per date.

COURSE OBJECTIVES

Software Psychology, according to our Faculty (founded in 1989) records, derived its name from the domain of study of human behavior in software engineering. The first suggested textbook in the course back in 1989, was found to be Ben Shneiderman's 1980 edition of Software Psychology: Human Factors in Computer and Information Systems. Since 1993, an

ongoing tailoring process is put in place by the author (Vat K.H.) to deliver an appropriate curriculum, which is composed of a suitable mix of such elements as human factors, user expectations, human-computer interfaces construction, cognitive psychology, and some latest development on user-centered and/or performance-centered design in interactive system development. Yet, the original course title has been retained because any change in course name involves some lengthy bureaucratic approval process in the local or now university Authorities. Yet, it is understood that if we intend our students to have better exposure to this field, more properly called human-computer interaction (HCI), as it is presently known today, we need more than a continually updated curriculum. We also need an appropriate pedagogy, whose mission is to facilitate students' active learning. And I have chosen the Problem-Based Learning (PBL) approach since 1998, and revise it continually in the direction of project-based learning since 2001. It has been reported that PBL helps develop in students the following characteristics of quality performance:

- high level communications, technological literacy, and informational abilities that enable individuals to gain and apply new knowledge and skills as needed.
- the ability to arrive at informed judgments; namely, to effectively define problems, gather and evaluate information related to those problems, and develop solutions.
- a range of attitudes and dispositions including: flexibility and adaptability; ease with diversity; motivation and persistence; creativity and resourcefulness; ability to work with others in team settings.

Throughout the execution of the course, I as the instructor must empower the student in the following areas of learning:

- to become HCI-literate by developing fundamental understanding of HCI in relation to human factors, usability engineering, cognitive psychology, and computer science.
- to encourage students to formulate and express their views on user interface design of interactive systems, through project development, written work, oral presentations and classroom discussions.
- to raise students' awareness of the HCI impact on computer industry, and the wide-spread focus of HCI from human factors, to usability engineering, to user-centered design, in constructing systems that support human activity.

Yet, students must involve themselves in the following iterative stages of activities throughout the semester's several milestones:

Analysis Throughout this stage, students organize their ideas and prior knowledge related to the problem, and start defining its requirements. This helps students devise a specific

statement of the problem. Meanwhile, they are encouraged to pose learning issues, defining what they know and what they do not know. This helps them assign responsibilities for research, eliciting their existing knowledge as a crucial step in learning new information.

Research Throughout this stage, students collect necessary information on specific learning issues raised by the group. They may conduct library searches, seek sources on the Internet, and/or interview knowledgeable personnel. Students teach themselves as they research their learning issues. It is intended that when they come to realize the complexity and texture of the problem, they may see that information is meant to manage problems effectively.

Reporting At this stage, students report their findings to the group. Individual students become "experts" and teach one another. Subsequently, their discussion may generate a possible solution, or new learning issues for the group to explore. Final solutions are reported to the class as a whole, and to the teacher. The teacher's feedback addresses if the original learning issues were resolved and if the students' grasp of the basic principles, information, and relationships is sufficiently deep and accurate.

COURSE ASSESSMENT

Individual Assignments	10%
Pair-Based Assignments	10%
Project Work	35%
Mid-Term Examination	15%
Final Examination	30%

COURSE MATERIALS

The following texts and references are made available in the Library under Reserved Materials of SFTW300 throughout the semester, for student reading assignment:

Selected textbooks

 Understanding Your Users: A Practical Guide to User Requirements – Methods, Tools & Techniques

Fall 2006: K.H.VAT(Mr.)

Catherine Courage & Kathy Baxter

Morgan Kaufmann 2005 (ISBN 1-55860-935-0)

2. User-Centered Website Development: A Human-Computer Interaction Approach

Daniel D. McCracken & Rosalee J. Wolfe

Prentice Hall 2004 (ISBN 0-13-041161-2).

Suggested References

 User Interface Design: A Software Engineering Perspective Soren Lauesen Addison Wesley 2005 (ISBN 0-321-18143-3)

 Managing Software Requirements: A Use Case Approach Second Edition
 Dean Leffingwell & Don Widrig
 Addison Wesley 2003 (ISBN 0-321-12247-X)

 Readings in Human-Computer Interaction: Toward the Year 2000.
 Ronald M. Baecker, Jonathan Grudin, William A.S. Buxton & Saul Greenberg Morgan Kaufmann 1995 (ISBN 1-55860-246-1)

Use Case Modeling
 Kurt Bittner & Ian Spence
 Addison Wesley 2003 (ISBN 0-201-70913-9)

 Requirement by Collaboration: Workshops for Defining Needs Ellen Gottesdiener
 Addison Wesley 2002 (ISBN 0-201-78606-0)

 Human-Computer Interaction in the New Millennium John M. Carroll Addison Wesley 2002 (ISBN 0-201-70447-1)

 Object-Oriented Software Engineering Using UML, Patterns, and Java, 2nd edition Bernd Bruegge & Allen H. Dutoit Prentice Hall 2004 (ISBN 0-13-191179-1)

Fall 2006: K.H.VAT(Mr.)

8. Software Development for Small Teams: A RUP-Centric Approach Gary Pollice, Liz Augustine, Chris Lowe, and Jas Madhur Addison Wesley 2004 (ISBN 0-321-19950-2

COURSE SOFTWARE

The following softwares, acquired either from open-source channels, or from free or purchased academic license, have been made available to students in T103, the ICTO-managed laboratory, to practice and adopt in their project development:

- 1. Eclipse SDK 3.2.1 for Windows XP
- 2. Serlio CASE COMPLETE for writing use-cases
- 3. JDK1.5 SWING with visual Java editor embedded in Eclipse to prototype GUI's
- 4. Macromedia Dreamweaver 8 and Flash 8
- 5. Microsoft Office and Project (optionally suggested)

COURSE TUTORIALS

Throughout the semester, starting from Sep-29-2006, I have delivered ten SWING-based tutorials in class to aid students' incremental understanding of GUI-based programming based on Java using the Eclipse IDE (integrated development environment). Details are provided as follows:

Tutorial #1: Swing Fundamentals, on Week#4 (Sep-29-2006)

Tutorial #2: Labels, Buttons, and Borders, on Week#5 (Oct-6-2006)

Tutorial #3: Scroll Bars, Sliders, and Progress Bars, on Week#6 (Oct-11-2006)

Tutorial#4: Managing Components with Panels, Panes, and Tooltips, on Week#7 (Oct-18-2006)

Tutorial #5: Lists, on Week#8 (Oct-25-2006)

Tutorial #6: Text Components, on Week#9 (Nov-1-2006)

Tutorial #7: Working with Menus, on Week#10 (Nov-8-2006)

Tutorial #8: Tables and Trees, on Week#11 (Nov-15-2006)

Tutorial #9: Dialogs, on Week#12 (Nov-22-2006)

Tutorial #10: Threading, Applets, Painting, and Layouts, on Week#13 (Nov-29-2006)

COURSE THEME PAPERS

There are three important papers singled out for students to study and to reflect throughout the whole semester's coursework:

Vat, K.H. (2006). Integrating Industrial Practices in Software Development through Scenario-Based Design of PBL Activities: A Pedagogical Re-Organization Perspective. *Journal of Issues in Informing Science and Information Technology (ISSN: 1547-5859 CD Version)*,

Volume 3, June, pp. 687-708 (Choose Volume 3 from http://iisit.org/).

Birtle, Malcolm. (1998). Negotiated Learning Contracts in Team Projects. Annals of Software Engineering. 6: 323-341 (J.C. Baltzer AG, Scientific Publishers).

Presley, A., Sarkis, J., Liles, D., & Barnett, W. (1998). Participative Design Using Soft Systems Methodology. http://www2.truman.edu/~apresley/ais98.pdf

COURSE POLICIES

- 1. The student should attend class regularly unless excused by the instructor. A student with no absences or absences less than 10 percent of the whole semester's attendance will be awarded extra semester points, during the final accounting of semester score. In the fall-2006 semester, these extra semester points turn out to be 6.
- 2. Students will receive both a TEAM score and an INDIVIDUAL score on the work done in each milestone, based on the presentation, the major deliverables such as report, PowerPoint slides, and memo of understanding, and the support documents submitted, such as internal evaluations and personal contributions.
- 3. A student caught cheating on an examination will be given a zero for that exam. Any personal assignment copied from someone else will be graded as zero. When the instructor is unable to distinguish from original and copied work, then the instructor will award all students involved (especially, from across teams) a grade of zero for that work. For collaborative work, the overused expression, "we worked on it together" must be well articulated in terms of who did what for what purpose under what circumstances. If a student work with another student on a piece of project work, it is important to attach a clear declaration of work done individually, and cooperatively (a job divided into tasks assigned to respective students to finish individually before integration).

COURSE RESULT

The following tables present the results of students' semester work:

- 1. Semester Grade and Score: Coursework (70) + Final Exam (30)
- 2. Semester Score (100): Course Project (55) + Mid-Term Exam (15) + Final Exam (30)

- 3. Course Project: Milestones #1, #2, #3 => Group + Personal Scores
- 4. Course Project: Milestone #4 => Group Score + Personal Bonus Score
- 5. Mid-Term Examination Score: Written (125) + Practical (75)
- **6.** Final Examination Score: Including Bonus Question (100 points)

SFTW 300 Software Psychology

Fall 2006

Semester Grade and Score: Coursework (70) + Final Exam (30)

Student	Coursework	Final Exam	Semester	Semester	Scale
	Semester	Semester	Total	Grade	Reference
	Total	Total	Accrued		
	<70>	<30>	<100>		
s300-g1					
da4-2703-3	42.2	0.0	42.2	Incomplete	
da4-2707-1	48.1	13.5	61.6	C-	12
da4-2742-8	42.7	11.9	54.6	D+	11
da4-2746-6	40.0	5.3	45.3	F	Below 10
s300-g2					
da3-2850-8	61.9	27.1	89.0	A-	18
da4-2728-1	68.2	27.8	96.0	A	20
da4-2748-5	55.0	15.6	70.6	C+	14
da4-2778-9	56.5	16.4	72.9	B-	15
s300-g3					
da4-2741-2	38.8	14.3	53.1	D+	11
da4-2819-6	40.5	19.8	60.3	C-	12
da4-2844-6	33.8	11.3	45.1	F	Below 10
da4-2856-2	37.3	5.3	42.6	F	Below 10
s300-g4					
da3-2722-4	35.5	3.5	39.0	F	Below 10
da4-2740-9	51.3	12.8	64.1	C	13
da4-2747-2	46.5	20.6	67.1	С	13
da4-2805-1	00.00	0.0	0.0	W	
da4-2832-0	40.8	11.6	52.4	D	10
s300-g5					
da4-2702-7	52.9	17.3	70.2	C+	14
da4-2744-7	44.7	14.1	58.8	C-	12
da4-2774-1	21.1	3.6	24.7	F	Below 10
da4-2809-9	30.3	7.7	38.0	F	Below 10
da4-2811-0	48.1	18.7	66.8	C	13
s300-g6					
da4-2780-0	38.2	2.5	40.7	F	Below 10
da4-2792-6	10.4	0.0	10.4	F	Below 10
da4-2813-9	37.8	6.6	44.4	F	Below 10
da4-2815-8	49.4	22.3	71.7	C+	14
da4-2891-2	49.9	20.7	70.6	C+	14
s300-g7					
da4-2717-8	47.2	11.3	58.5	C-	12
da4-2730-2	59.7	18.9	78.6	В	16
da4-2787-3	50.6	12.4	63.0	C	13
da4-2880-9	57.2	23.6	80.8	В	16
s300-g8					
da4-2701-1	37.6	5.6	43.2	F	Below 10
da4-2749-1	40.6	19.1	59.7	C-	12
da4-2766-3	34.8	5.4	40.2	F	Below 10
da4-2859-7	40.2	9.9	50.1	D	10

SFTW 300 Software Psychology

Fall 2006

Semester Score (100): Course Project (55) + Mid-Term Exam (15) + Final Exam (30)

< After adjustment: Add 6 points to all students as Semester Bonus>

Student	First Three	First Three	Last	Mid-Term	Final	
Student	Milestones'	Milestones'	Project	Exam	Exam	Semester
	Semester	Semester	Milestone	Semester	Semester	Total
	Total	Total	Semester	Total	Total	Accrued
	Group	Personal	Total with	<15>	<30>	<100>
	<25>	<20>	Bonus	(13)	(30)	(100)
	\25>	(20)	<10 x 2>			
s300-g1			(10 11 2)			
da4-2703-3	10.67	8.16	14.17	3.20	0.0	42.2
da4-2707-1	10.67	10.41	16.17	4.80	13.5	61.6
da4-2742-8	10.67	9.24	14.83	2.00	11.9	54.6
da4-2746-6	10.67	8.17	13.50	1.70	5.3	45.3
s300-g2						
da3-2850-8	16.18	13.16	17.50	8.70	27.1	89.0
da4-2728-1	16.18	15.50	17.83	12.70	27.8	96.0
da4-2748-5	16.18	11.76	16.83	4.30	15.6	70.6
da4-2778-9	16.18	12.16	17.16	5.00	16.4	72.9
s300-g3						
da4-2741-2	8.31	8.00	12.50	4.00	14.3	53.1
da4-2819-6	8.31	9.00	12.83	4.40	19.8	60.3
da4-2844-6	8.31	6.33	11.50	1.70	11.3	45.1
da4-2856-2	8.31	7.58	11.16	4.20	5.3	42.6
s300-g4						
da3-2722-4	11.16	4.75	12.00	1.60	3.5	39.0
da4-2740-9	11.16	12.04	15.34	6.80	12.8	64.1
da4-2747-2	11.16	10.83	15.00	3.50	20.6	67.1
da4-2805-1	00.00	00.00	0.00	0.00	0.0	0.0
da4-2832-0	11.16	8.75	12.67	2.20	11.6	52.4
s300-g5						
da4-2702-7	13.33	12.92	17.00	3.60	17.3	70.2
da4-2744-7	13.33	7.77	14.67	2.90	14.1	58.8
da4-2774-1	3.70	1.67	8.00	1.70	3.6	24.7
da4-2809-9	3.70	5.33	13.00	2.30	7.7	38.0
da4-2811-0	13.33	9.17	15.33	4.30	18.7	66.8
s300-g6						
da4-2780-0	12.06	6.00	11.67	2.40	2.5	40.7
da4-2792-6	3.43	1.00	0.00	0.00	0.0	10.4
da4-2813-9	12.06	7.75	12.00	0.00	6.6	44.4
da4-2815-8	12.06	10.17	15.00	6.20	22.3	71.7
da4-2891-2	12.06	12.25	14.34	5.30	20.7	70.6
s300-g7						
da4-2717-8	13.13	10.00	14.67	3.40	11.3	58.5
da4-2730-2	13.13	13.92	18.00	8.60	18.9	78.6
da4-2787-3	13.13	11.58	15.34	4.60	12.4	63.0
da4-2880-9	13.13	10.24	17.00	10.80	23.6	80.8
s300-g8						
da4-2701-1	8.41	7.34	13.67	2.10	5.6	43.2
da4-2749-1	8.41	7.51	13.34	5.40	19.1	59.7
da4-2766-3	8.41	6.17	11.34	2.90	5.4	40.2
da4-2859-7	8.41	7.83	14.67	3.30	9.9	50.1

SFTW 300 Software Psychology

Fall 2006

Semester Score (100): Course Project (55) + Mid-Term Exam (15) + Final Exam (30)

<Before adjustment>

Student	First Three	First Three	Last	Mid-Term	Final	
	Milestones'	Milestones'	Project	Exam	Exam	Semester
	Semester	Semester	Milestone	Semester	Semester	Total
	Total	Total	Semester	Total	Total	Accrued
	Group	Personal	Total with	<15>	<30>	<100>
	<25>	<20>	Bonus			
			<10 x 2>			
s300-g1						
da4-2703-3	10.67	8.16	14.17	3.20	0.0	36.2
da4-2707-1	10.67	10.41	16.17	4.80	13.5	55.6
da4-2742-8	10.67	9.24	14.83	2.00	11.9	48.6
da4-2746-6	10.67	8.17	13.50	1.70	5.3	39.3
s300-g2						
da3-2850-8	16.18	13.16	17.50	8.70	27.1	83.0
da4-2728-1	16.18	15.50	17.83	12.70	27.8	90.0
da4-2748-5	16.18	11.76	16.83	4.30	15.6	64.6
da4-2778-9	16.18	12.16	17.16	5.00	16.4	66.9
s300-g3						
da4-2741-2	8.31	8.00	12.50	4.00	14.3	47.1
da4-2819-6	8.31	9.00	12.83	4.40	19.8	54.3
da4-2844-6	8.31	6.33	11.50	1.70	11.3	39.1
da4-2856-2	8.31	7.58	11.16	4.20	5.3	36.6
s300-g4						
da3-2722-4	11.16	4.75	12.00	1.60	3.5	33.0
da4-2740-9	11.16	12.04	15.34	6.80	12.8	58.1
da4-2747-2	11.16	10.83	15.00	3.50	20.6	61.1
da4-2805-1	00.00	00.00	0.00	0.00	0.0	0.0
da4-2832-0	11.16	8.75	12.67	2.20	11.6	46.4
s300-g5						
da4-2702-7	13.33	12.92	17.00	3.60	17.3	64.2
da4-2744-7	13.33	7.77	14.67	2.90	14.1	52.8
da4-2774-1	3.70	1.67	8.00	1.70	3.6	18.7
da4-2809-9	3.70	5.33	13.00	2.30	7.7	32.0
da4-2811-0	13.33	9.17	15.33	4.30	18.7	60.8
s300-g6						
da4-2780-0	12.06	6.00	11.67	2.40	2.5	34.67
da4-2792-6	3.43	1.00	0.00	0.00	0.0	4.43
da4-2813-9	12.06	7.75	12.00	0.00	6.6	38.4
da4-2815-8	12.06	10.17	15.00	6.20	22.3	65.7
da4-2891-2	12.06	12.25	14.34	5.30	20.7	64.6
s300-g7						
da4-2717-8	13.13	10.00	14.67	3.40	11.3	52.5
da4-2730-2	13.13	13.92	18.00	8.60	18.9	72.6
da4-2787-3	13.13	11.58	15.34	4.60	12.4	57.0
da4-2880-9	13.13	10.24	17.00	10.80	23.6	74.8
s300-g8						
da4-2701-1	8.41	7.34	13.67	2.10	5.6	37.2
da4-2749-1	8.41	7.51	13.34	5.40	19.1	53.7
da4-2766-3	8.41	6.17	11.34	2.90	5.4	34.2
da4-2859-7	8.41	7.83	14.67	3.30	9.9	44.1

Course Project: Milestones #1, #2, #3 => Group + Personal Scores

Student	First Three Milestones'	First Three Milestones'	First Three Milestones' Semester Total Group +
	Semester Total	Semester Total Personal <20>	Personal <45>
s300-g1	Group <25>	reisoliai <20>	
da4-2703-3	10.67	8.16	18.83
da4-2707-1	10.67	10.41	21.08
da4-2742-8	10.67	9.24	19.91
da4-2746-6	10.67	8.17	18.84
s300-g2	10.07	0.17	10.04
da3-2850-8	16.18	13.16	29.34
da4-2728-1	16.18	15.50	31.68
da4-2748-5	16.18	11.76	27.94
da4-2778-9	16.18	12.16	28.34
s300-g3			
da4-2741-2	8.31	8.00	16.31
da4-2819-6	8.31	9.00	17.31
da4-2844-6	8.31	6.33	14.64
da4-2856-2	8.31	7.58	15.89
s300-g4			
da3-2722-4	11.16	4.75	15.91
da4-2740-9	11.16	12.04	23.20
da4-2747-2	11.16	10.83	21.99
da4-2805-1	00.00 (absent always)	00.00 (absent always)	0.00
da4-2832-0	11.16	8.75	19.91
s300-g5			
da4-2702-7	13.33	12.92	26.25
da4-2744-7	13.33	7.77	21.10
da4-2774-1	3.70	1.67	5.37
da4-2809-9	3.70	5.33	9.03
da4-2811-0	13.33	9.17	22.50
s300-g6			
da4-2780-0	12.06	6.00	18.06
da4-2792-6	3.43	0.67	4.10
da4-2813-9	12.06	7.75	19.81
da4-2815-8	12.06	10.17	22.23
da4-2891-2	12.06	11.75	23.81
s300-g7	10.10	10.00	22.12
da4-2717-8	13.13	10.00	23.13
da4-2730-2	13.13	13.92	27.05
da4-2787-3	13.13	11.58	24.71
da4-2880-9	13.13	10.24	23.37
s300-g8	0.41	7.24	15.75
da4-2701-1	8.41	7.34	15.75
da4-2749-1	8.41	7.51	15.92
da4-2766-3	8.41	6.17	14.58
da4-2859-7	8.41	7.83	16.24

Fall 2006: K.H.VAT(Mr.)

Course Project: Milestone #4 => Group Score + Personal Bonus Score

Student	Group (60)<10>	Personal Bonus (30)<10>	Milestone Bonus Semester Total <20>
s300-g1	(00)<10>	(30)<10>	Semester Total \20>
da4-2703-3	45.0 < 7.50 >	20.0 < 6.67 >	14.17
da4-2707-1	45.0 < 7.50 >	26.0 < 8.67>	16.17
da4-2742-8	45.0 < 7.50 >	22.0 <7.33>	14.83
da4-2746-6	45.0 < 7.50 >	18.0 < 6.00>	13.50
s300-g2	45.0 < 1.50>	10.0 < 0.00 >	13.30
da3-2850-8	53.0 < 8.83 >	26.0 < 8.67 >	17.50
da4-2728-1	53.0 < 8.83 >	27.0 < 9.00>	17.83
da4-2748-5	53.0 < 8.83 >	24.0 < 8.00>	16.83
da4-2778-9	53.0 < 8.83 >	25.0 < 8.33>	17.16
s300-g3	33.0 <0.032	25.0 (0.55)	17.10
da4-2741-2	35.0 < 5.83 >	20.0 < 6.67 >	12.50
da4-2819-6	35.0 < 5.83 >	21.0 <7.00>	12.83
da4-2844-6	35.0 < 5.83 >	17.0 < 5.67>	11.50
da4-2856-2	35.0 < 5.83 >	16.0 < 5.33>	11.16
s300-g4	33.0 (3.03)	10.0 (3.33)	11.10
da3-2722-4	40.0 < 6.67 >	16.00 < 5.33 >	12.00
da4-2740-9	40.0 < 6.67 >	26.00 < 8.67 >	15.34
da4-2747-2	40.0 < 6.67 >	25.00 < 8.33 >	15.00
da4-2805-1	0.00 < 0.00 >	00.00 < 0.00 >	0.00 (absent always)
da4-2832-0	40.0 < 6.67 >	18.00 < 6.00 >	12.67
s300-g5			
da4-2702-7	48.0 < 8.00 >	27.00 < 9.00 >	17.00
da4-2744-7	48.0 < 8.00 >	20.00 < 6.67 >	14.67
da4-2774-1	48.0 < 8.00 >	0.00 < 0.00 >	8.00
da4-2809-9	48.0 < 8.00 >	15.00 < 5.00 >	13.00
da4-2811-0	48.0 < 8.00 >	22.0 < 7.33>	15.33
s300-g6			
da4-2780-0	40.0 < 6.67 >	15.00 < 5.00 >	11.67
da4-2792-6	0.00 < 0.00 > ABS	0.0 < 0.00 > ABS	0.00
da4-2813-9	40.0 < 6.67 >	16.00 < 5.33 >	12.00
da4-2815-8	40.0 < 6.67 >	25.00 < 8.33 >	15.00
da4-2891-2	40.0 < 6.67 >	23.00 < 7.67 >	14.34
s300-g7			
da4-2717-8	52.0 < 8.67 >	18.00 < 6.00 >	14.67
da4-2730-2	52.0 < 8.67 >	28.00 < 9.33 >	18.00
da4-2787-3	52.0 < 8.67 >	20.00 < 6.67 >	15.34
da4-2880-9	52.0 < 8.67 >	25.00 < 8.33 >	17.00
s300-g8			
da4-2701-1	40.0 < 6.67 >	21.00 < 7.00 >	13.67
da4-2749-1	40.0 < 6.67 >	20.00 < 6.67 >	13.34
da4-2766-3	40.0 < 6.67 >	14.00 < 4.67 >	11.34
da4-2859-7	40.0 < 6.67 >	24.00 < 8.00 >	14.67

Course Project: Milestones #1, #2, #3 => Group Score Only

Student	Milestone#1	Milestone#2	Milestone#3	First Three
	(50)<5 points>	(60)<5 points>	(60)<15 points>	Milestones' Semester
				Total <25>
s300-g1				
da4-2703-3	15 <1.5>	20.0 < 1.67 >	30.0 < 7.50 >	10.67
da4-2707-1	15 <1.5>	20.0 < 1.67 >	30.0 < 7.50 >	10.67
da4-2742-8	15 <1.5>	20.0 < 1.67 >	30.0 < 7.50 >	10.67
da4-2746-6	15 <1.5>	20.0 < 1.67 >	30.0 < 7.50 >	10.67
s300-g2				
da3-2850-8	31.0 < 3.1 >	39.5 < 2.83 >	41.0 <10.25>	16.18
da4-2728-1	31.0 < 3.1 >	39.5 < 2.83 >	41.0 <10.25>	16.18
da4-2748-5	31.0 < 3.1 >	39.5 < 2.83 >	41.0 <10.25>	16.18
da4-2778-9	31.0 < 3.1 >	39.5 < 2.83 >	41.0 < 10.25 >	16.18
s300-g3				
da4-2741-2	8.5 < 0.85 >	14.5 <1.21>	25.0 < 6.25 >	8.31
da4-2819-6	8.5 < 0.85 >	14.5 <1.21>	25.0 < 6.25 >	8.31
da4-2844-6	8.5 < 0.85 >	14.5 <1.21>	25.0 < 6.25 >	8.31
da4-2856-2	8.5 < 0.85 >	14.5 <1.21>	25.0 < 6.25 >	8.31
s300-g4				
da3-2722-4	9.5 < 0.95 >	22.0 <1.83>	33.5 < 8.38 >	11.16
da4-2740-9	9.5 < 0.95 >	22.0 <1.83>	33.5 < 8.38 >	11.16
da4-2747-2	9.5 < 0.95 >	22.0 <1.83>	33.5 < 8.38 >	11.16
da4-2805-1	9.5 < 0.95>	0.00 < 0.00 >	0.00 < 0.00 >	00.00 (absent always)
da4-2832-0	9.5 < 0.95 >	22.0 <1.83>	33.5 < 8.38 >	11.16
s300-g5	710 101701			
da4-2702-7	19.5 <1.95>	21.0 < 1.75>	38.5 < 9.63 >	13.33
da4-2744-7	19.5 <1.95>	21.0 <1.75>	38.5 < 9.63 >	13.33
da4-2774-1	19.5 <1.95>	21.0 <1.75>	0.00 < 0.00 > ABS	3.70
da4-2809-9	19.5 <1.95>	21.0 <1.75>	0.00 < 0.00 > ABS	3.70
da4-2811-0	19.5 <1.95>	21.0 <1.75>	38.5 < 9.63 >	13.33
s300-g6				
da4-2780-0	15.5 < 1.55>	22.5 <1.88>	34.5 < 8.63 >	12.06
da4-2792-6	15.5 <1.55>	22.5 <1.88>	0.00 < 0.00 > ABS	3.43
da4-2813-9	15.5 <1.55>	22.5 <1.88>	34.5 < 8.63 >	12.06
da4-2815-8	15.5 < 1.55>	22.5 <1.88>	34.5 < 8.63 >	12.06
da4-2891-2	15.5 <1.55>	22.5 <1.88>	34.5 < 8.63 >	12.06
s300-g7	10.0 (1.00)	22.6 (1.66)	2 110 (0100)	12.00
da4-2717-8	22.5 < 2.25>	33.0 < 2.75>	32.5 < 8.13>	13.13
da4-2730-2	22.5 <2.25>	33.0 <2.75>	32.5 <8.13>	13.13
da4-2787-3	22.5 <2.25>	33.0 <2.75>	32.5 < 8.13>	13.13
da4-2880-9	22.5 <2.25>	33.0 <2.75>	32.5 < 8.13>	13.13
s300-g8	22.5 \2.25/	33.0 \2.13/	32.3 (0.13/	13.13
da4-2701-1	4.5 < 0.45 >	14.5 <1.21>	27.0 < 6.75>	8.41
da4-2749-1	4.5 < 0.45 >	14.5 <1.21>	27.0 < 6.75 >	8.41
da4-2766-3	4.5 < 0.45 >	14.5 <1.21>	27.0 < 6.75>	8.41
da4-2700-3	4.5 < 0.45 >	14.5 < 1.21>	27.0 < 6.75 >	8.41
ua4-2039-1	4.3 <0.43>	14.3 <1.21>	41.0 < 0.13>	0.41

Course Project: Milestones #1, #2, #3 => Personal Score Only

Milestone#1	Milestone#2	Milestone#3	First Three
			Milestones'
Individual	Individual	Pair-Based	Semester Total
Assignment	Assignment	Assignment	<20>
	<u>-</u>	_	
5 < 0.83 >	14.0 < 2.33 >	15.0 < 5.00 >	8.16
8 <1.33>	13.5 < 2.25 >	20.5 < 6.83 >	10.41
5 < 0.83 >	12.5 < 2.08>	19.0 < 6.33 >	9.24
7 <1.17>	12.0 < 2.00 >	15.0 < 5.00 >	8.17
	18.5 < 3.08>	22.0 < 7.33>	13.16
19.5 < 3.25>	19.5 < 3.25 >	27.0 < 9.00 >	15.50
14.5 < 2.42>	19.0 < 3.17 >	18.5 < 6.17 >	11.76
13.5 < 2.25 >	18.5 < 3.08 >	20.5 < 6.83 >	12.16
3.5 < 0.58 >	5.5 < 0.92 >	19.5 < 6.50 >	8.00
3.5 < 0.58 >	5.5 < 0.92 >	22.5 < 7.50>	9.00
3.5 < 0.58 >	5.5 < 0.92 >	14.5 < 4.83 >	6.33
3.5 < 0.58 >	10.0 < 1.67 >	16.0 < 5.33>	7.58
3.5 < 0.58 >	0.00<0.00> ABS	12.50 < 4.17>	4.75
6.0 < 1.0 >	13.0 < 2.17 >	26.60 < 8.87 >	12.04
5.0 < 0.83 >	14.0 < 2.33>	23.00 < 7.67 >	10.83
5.0 < 0.83 >	<0.00 <0.00>	<0.00>	00.00 (absent
			always)
6.0 < 1.0 >	12.5 < 2.08>	17.00 < 5.67 >	8.75
10.5 < 1.75>	18.0 < 3.00>	24.50 < 8.17 >	12.92
9.5 < 0.10 >	0.0 < 0.00 > ABS	23.00 < 7.67 >	7.77
10.0 < 1.67>	0.0 < 0.00 > ABS	0.00 < 0.00 > ABS	1.67
10.0 < 1.67>	5.0 < 0.83 >	8.50 < 2.83 >	5.33
10.0 < 1.67>	6.0 < 1.00 >	19.5 < 6.50 >	9.17
6 < 1.00 >	6.0 < 1.00 >	12.00 <4.00>	6.00
4 < 0.67 >	0.0 < 0.00 > ABS	0.0 < 0.00 > ABS	0.67
6 < 1.00 >	7.5 <1.25>	16.50 < 5.50 >	7.75
6 < 1.00 >	9.0 < 1.5 >	23.00 < 7.67 >	10.17
6 < 1.00 >	11.5 < 1.92>	26.50 < 8.83 >	11.75
10.0 < 1.67>	18.0 < 3.00>	16.00 < 5.33 >	10.00
13.0 < 2.17>	18.5 < 3.08>	26.00 < 8.67 >	13.92
12.5 < 2.08>	19.0 < 3.17>	19.00 < 6.33 >	11.58
14.0 < 2.33>	18.5 < 3.08>	14.50 <4.83>	10.24
2.5 < 0.42 >	11.5 < 0.42>	19.50 < 6.50 >	7.34
4.0 < 0.67 >	10.5 < 0.67 >	18.50 < 6.17 >	7.51
4.5 < 0.75 >	9.5 < 0.75>	14.00 <4.67>	6.17
3.0 < 0.50 >	6.5 < 0.50 >	20.50 < 6.83 >	7.83
	Assignment 5 < 0.83> 8 < 1.33> 5 < 0.83> 7 < 1.17> 16.5 < 2.75> 19.5 < 3.25> 14.5 < 2.42> 13.5 < 2.25> 3.5 < 0.58> 3.5 < 0.58> 3.5 < 0.58> 3.5 < 0.58> 3.5 < 0.58> 6.0 < 1.0> 5.0 < 0.83> 5.0 < 0.83> 5.0 < 0.83> 6.0 < 1.0> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67> 10.0 < 1.67>	(30)<5 points> Individual Assignment (30)<5 points> Individual Assignment 5 <0.83> 14.0 <2.33> 8 <1.33> 13.5 <2.25> 5 <0.83> 12.5 <2.08> 7 <1.17> 12.0 <2.00> 16.5 <2.75> 18.5 <3.08> 19.5 <3.25> 19.5 <3.25> 14.5 <2.42> 19.0 <3.17> 13.5 <2.25> 18.5 <3.08> 3.5 <0.58> 5.5 <0.92> 3.5 <0.58> 5.5 <0.92> 3.5 <0.58> 5.5 <0.92> 3.5 <0.58> 5.5 <0.92> 3.5 <0.58> 10.0 <1.67> 3.5 <0.58> 10.0 <1.67> 3.5 <0.58> 10.0 <1.67> 5.0 <0.83> 14.0 <2.33> 5.0 <0.83> 14.0 <2.33> 5.0 <0.83> 14.0 <2.33	(30)<5 points>

Fall 2006: K.H.VAT(Mr.)

Course Project: Milestone #3 => Group Score + Personal Score

Student	Group	Personal	Milestone Semester
a200 a1	(60)<15>	(30)<10>	Total <25>
s300-g1 da4-2703-3	30.0 < 7.50 >	15.0 < 5.00>	12.50
da4-2703-3	30.0 < 7.50>	20.5 < 6.83 >	14.33
da4-2742-8	30.0 < 7.50>	19.0 < 6.33 >	13.83
da4-2742-8 da4-2746-6	30.0 < 7.50>		12.50
	30.0 < 7.30>	15.0 <5.00>	12.30
s300-g2 da3-2850-8	41.0 <10.25>	22.0 <7.33>	17.58
da3-2830-8 da4-2728-1	41.0 < 10.25 >	27.0 < 9.00 >	19.25
da4-2728-1 da4-2748-5	41.0 <10.25>	18.5 < 6.17 >	16.42
da4-2778-9	41.0 <10.25>	20.5 < 6.83 >	17.08
s300-g3 da4-2741-2	25.0 <6.25	10.5 <6.50	12.75
	25.0 <6.25>	19.5 < 6.50>	12.75
da4-2819-6	25.0 <6.25>	22.5 < 7.50>	13.75
da4-2844-6	25.0 <6.25>	14.5 < 4.83 >	11.08
da4-2856-2	25.0 < 6.25 >	16.0 < 5.33>	11.58
s300-g4	22.5 (0.20)	10.50 .4.17	10.55
da3-2722-4	33.5 < 8.38 >	12.50 <4.17>	12.55
da4-2740-9	33.5 < 8.38 >	26.60 < 8.87 >	17.25
da4-2747-2	33.5 < 8.38 >	23.00 < 7.67 >	16.05
da4-2805-1	0.00 < 0.00 >	00.00 < 0.00 >	0.00 (absent always)
da4-2832-0	33.5 < 8.38 >	17.00 < 5.67>	14.05
s300-g5	20.5.0.62	24.50 0.17	17.00
da4-2702-7	38.5 < 9.63 >	24.50 < 8.17 >	17.80
da4-2744-7	38.5 < 9.63 >	23.00 < 7.67 >	17.30
da4-2774-1	0.00 < 0.00 > ABS	0.00 <0.00> ABS	0.00
da4-2809-9	0.00 <0.00> ABS	8.50 < 2.83 >	2.83
da4-2811-0	38.5 < 9.63 >	19.5 < 6.50 >	16.13
s300-g6		12.00	
da4-2780-0	34.5 < 8.63 >	12.00 <4.00>	12.63
da4-2792-6	0.00 < 0.00 > ABS	0.0 < 0.00 > ABS	0.00
da4-2813-9	34.5 < 8.63 >	16.50 < 5.50 >	14.13
da4-2815-8	34.5 < 8.63 >	23.00 < 7.67 >	16.30
da4-2891-2	34.5 < 8.63 >	26.50 < 8.83 >	17.46
s300-g7			
da4-2717-8	32.5 < 8.13 >	16.00 < 5.33>	13.46
da4-2730-2	32.5 < 8.13 >	26.00 < 8.67 >	16.80
da4-2787-3	32.5 < 8.13 >	19.00 < 6.33 >	14.46
da4-2880-9	32.5 < 8.13 >	14.50 <4.83>	12.96
s300-g8			
da4-2701-1	27.0 < 6.75 >	19.50 < 6.50 >	13.25
da4-2749-1	27.0 < 6.75 >	18.50 < 6.17 >	12.92
da4-2766-3	27.0 < 6.75 >	14.00 < 4.67 >	11.42
da4-2859-7	27.0 < 6.75 >	20.50 < 6.83 >	13.58

Course Project: Milestone #2 => Group Score + Personal Score

Student	Group	Personal	Milestone Semester
	$(60)<\bar{5}>$	(30)<5>	Total <10>
s300-g1			
da4-2703-3	20.0 < 1.67 >	14.0 < 2.33 >	4.00
da4-2707-1	20.0 < 1.67 >	13.5 < 2.25 >	3.92
da4-2742-8	20.0 < 1.67 >	12.5 < 2.08>	3.75
da4-2746-6	20.0 < 1.67 >	12.0 < 2.00 >	3.67
s300-g2			
da3-2850-8	39.5 < 2.83 >	18.5 < 3.08>	5.91
da4-2728-1	39.5 < 2.83 >	19.5 < 3.25>	6.08
da4-2748-5	39.5 < 2.83 >	19.0 < 3.17>	6.00
da4-2778-9	39.5 < 2.83 >	18.5 < 3.08>	5.91
s300-g3			
da4-2741-2	14.5 < 1.21 >	5.5 < 0.92 >	2.13
da4-2819-6	14.5 <1.21>	5.5 < 0.92 >	2.13
da4-2844-6	14.5 < 1.21 >	5.5 < 0.92 >	2.13
da4-2856-2	14.5 < 1.21 >	10.0 < 1.67 >	2.88
s300-g4			
da3-2722-4	22.0 <1.83>	0.00 < 0.00 > ABS	1.83
da4-2740-9	22.0 <1.83>	13.0 < 2.17 >	4.00
da4-2747-2	22.0 <1.83>	14.0 <2.33>	4.16
da4-2805-1	0.00 < 0.00 >	<0.00>	0.00 (absent always)
da4-2832-0	22.0 <1.83>	12.5 < 2.08>	3.91
s300-g5			
da4-2702-7	21.0 < 1.75>	18.0 < 3.00>	4.75
da4-2744-7	21.0 <1.75>	0.0 < 0.00 > ABS	1.75
da4-2774-1	21.0 <1.75>	0.0 < 0.00 > ABS	1.75
da4-2809-9	21.0 <1.75>	5.0 < 0.83 >	2.58
da4-2811-0	21.0 <1.75>	6.0 < 1.00 >	2.75
s300-g6			
da4-2780-0	22.5 <1.88>	6.0 < 1.00 >	2.88
da4-2792-6	22.5 <1.88>	0.0 < 0.00 > ABS	1.88
da4-2813-9	22.5 <1.88>	7.5 <1.25>	3.13
da4-2815-8	22.5 <1.88>	9.0 < 1.5 >	3.38
da4-2891-2	22.5 <1.88>	11.5 < 1.92>	3.80
s300-g7			
da4-2717-8	33.0 < 2.75>	18.0 < 3.00>	5.75
da4-2730-2	33.0 < 2.75>	18.5 < 3.08>	5.83
da4-2787-3	33.0 < 2.75 >	19.0 < 3.17>	5.92
da4-2880-9	33.0 < 2.75>	18.5 < 3.08>	5.83
s300-g8			
da4-2701-1	14.5 <1.21>	11.5 < 0.42>	1.63
da4-2749-1	14.5 <1.21>	10.5 < 0.67 >	1.88
da4-2766-3	14.5 <1.21>	9.5 < 0.75>	1.96
da4-2859-7	14.5 <1.21>	6.5 < 0.50 >	1.71

Course Project: Milestone #1 => Group Score + Personal Score

Student	Group	Personal	Milestone Semester
	$(50)<\hat{5}>$	(30)<5>	Total <10>
s300-g1			
da4-2703-3	15 < 1.5 >	5 < 0.83 >	2.33
da4-2707-1	15 <1.5>	8 < 1.33 >	2.83
da4-2742-8	15 <1.5>	5 < 0.83 >	2.33
da4-2746-6	15 <1.5>	7 <1.17>	2.67
s300-g2			
da3-2850-8	31.0 < 3.1 >	16.5 < 2.75>	5.85
da4-2728-1	31.0 < 3.1 >	19.5 < 3.25>	6.35
da4-2748-5	31.0 < 3.1 >	14.5 < 2.42>	5.52
da4-2778-9	31.0 < 3.1 >	13.5 < 2.25 >	5.35
s300-g3			
da4-2741-2	8.5 < 0.85 >	3.5 < 0.58 >	1.43
da4-2819-6	8.5 < 0.85 >	3.5 < 0.58 >	1.43
da4-2844-6	8.5 < 0.85 >	3.5 < 0.58 >	1.43
da4-2856-2	8.5 < 0.85 >	3.5 < 0.58 >	1.43
s300-g4			
da3-2722-4	9.5 < 0.95 >	3.5 < 0.58 >	1.53
da4-2740-9	9.5 < 0.95 >	6.0 < 1.0 >	1.95
da4-2747-2	9.5 < 0.95 >	5.0 < 0.83 >	1.78
da4-2805-1	9.5 < 0.95 >	5.0 < 0.83 >	1.78
da4-2832-0	9.5 < 0.95 >	6.0 < 1.0 >	1.95
s300-g5			
da4-2702-7	19.5 <1.95>	10.5 < 1.75>	3.70
da4-2744-7	19.5 <1.95>	9.5 < 0.10 >	2.05
da4-2774-1	19.5 <1.95>	10.0 < 1.67 >	3.62
da4-2809-9	19.5 <1.95>	10.0 < 1.67 >	3.62
da4-2811-0	19.5 <1.95>	10.0 < 1.67 >	3.62
s300-g6			
da4-2780-0	15.5 < 1.55>	6 < 1.00 >	2.55
da4-2792-6	15.5 < 1.55>	4 < 0.67 >	2.22
da4-2813-9	15.5 < 1.55>	6 < 1.00 >	2.55
da4-2815-8	15.5 <1.55>	6 < 1.00 >	2.55
da4-2891-2	15.5 < 1.55>	6 < 1.00 >	2.55
s300-g7			
da4-2717-8	22.5 < 2.25 >	10.0 < 1.67 >	3.92
da4-2730-2	22.5 < 2.25 >	13.0 < 2.17>	4.42
da4-2787-3	22.5 < 2.25 >	12.5 < 2.08>	4.33
da4-2880-9	22.5 < 2.25 >	14.0 < 2.33 >	4.58
s300-g8			
da4-2701-1	4.5 < 0.45 >	2.5 < 0.42 >	0.87
da4-2749-1	4.5 < 0.45 >	4.0 < 0.67 >	1.12
da4-2766-3	4.5 < 0.45 >	4.5 < 0.75 >	1.20
da4-2859-7	4.5 < 0.45 >	3.0 < 0.50 >	0.95

Mid-Term Examination Score: Written (125) + Practical (75)

Student	Written (125)	Practical (75)	Total (200)	Semester Score (15%)
s300-g1				
da4-2703-3	24	18	42	3.2
da4-2707-1	35	29	64	4.8
da4-2742-8	23	3	26	2.0
da4-2746-6	6	16	22	1.7
s300-g2				
da3-2850-8	34	82	116	8.7
da4-2728-1	76	93	169	12.7
da4-2748-5	19	38	57	4.3
da4-2778-9	9	57	66	5.0
s300-g3				
da4-2741-2	22	31	53	4.0
da4-2819-6	48	10	58	4.4
da4-2844-6	8	15	23	1.7
da4-2856-2	11	45	56	4.2
s300-g4				
da3-2722-4	16.5	5	21.5	1.6
da4-2740-9	21	69	90	6.8
da4-2747-2	25	21	46	3.5
da4-2805-1	0	0	0	0.0
da4-2832-0	21	8	29	2.2
s300-g5				
da4-2702-7	27	21	48	3.6
da4-2744-7	18	20	38	2.9
da4-2774-1	15	8	23	1.7
da4-2809-9	9	21	30	2.3
da4-2811-0	23	34	57	4.3
s300-g6				
da4-2780-0	12	20	32	2.4
da4-2792-6	0	0	0	0.0
da4-2813-9	0	0	0	0.0
da4-2815-8	47	35	82	6.2
da4-2891-2	46	24	70	5.3
s300-g7				
da4-2717-8	14	31	45	3.4
da4-2730-2	37	77	114	8.6
da4-2787-3	21	40	61	4.6
da4-2880-9	52.5	91	143.5	10.8
s300-g8				
da4-2701-1	28	0	28	2.1
da4-2749-1	20	52	72	5.4
da4-2766-3	9	29	38	2.9
da4-2859-7	21	23	44	3.3

Mid-Term Exam: Written Paper Score

Student	Short Questions (50)	Long Questions (75)	Total (125)
s300-g1			
da4-2703-3	17	7	24
da4-2707-1	18	17	35
da4-2742-8	5	18	23
da4-2746-6	6	0	6
s300-g2			
da3-2850-8	19	15	34
da4-2728-1	24	52	76
da4-2748-5	5	14	19
da4-2778-9	3	6	9
s300-g3			
da4-2741-2	7	15	22
da4-2819-6	16	32	48
da4-2844-6	4	4	8
da4-2856-2	11	0	11
s300-g4			
da3-2722-4	14.5	2	16.5
da4-2740-9	7	14	21
da4-2747-2	17	8	25
da4-2805-1	0	0	0
da4-2832-0	15	6	21
s300-g5			
da4-2702-7	17	10	27
da4-2744-7	7	11	18
da4-2774-1	10	5	15
da4-2809-9	9	0	9
da4-2811-0	13	10	23
s300-g6			
da4-2780-0	7	5	12
da4-2792-6	0	0	0
da4-2813-9	0	0	0
da4-2815-8	23	24	47
da4-2891-2	27	19	46
s300-g7			. 0
da4-2717-8	3	11	14
da4-2730-2	17	20	37
da4-2787-3	12	9	21
da4-2880-9	19.5	33	52.5
s300-g8	17.0		02.0
da4-2701-1	19	9	28
da4-2749-1	11	9	20
da4-2766-3	5	4	9
da4-2859-7	8	13	21
ua+-2037-1	U	13	41

Mid-Term Exam: Practical Paper -> Original + Bonus Score

Student	Original (75)	Bonus (30)	Total (75)
s300-g1	O , /		` /
da4-2703-3	18	0	18
da4-2707-1	29	0	29
da4-2742-8	3	0	3
da4-2746-6	4	12	16
s300-g2			
da3-2850-8	55	27	82
da4-2728-1	65	28	93
da4-2748-5	38	0	38
da4-2778-9	47	10	57
s300-g3			
da4-2741-2	31	0	31
da4-2819-6	10	0	10
da4-2844-6	15	0	15
da4-2856-2	45	0	45
s300-g4			
da3-2722-4	5	0	5
da4-2740-9	61	8	69
da4-2747-2	13	8	21
da4-2805-1	0	0	0
da4-2832-0	8	0	8
s300-g5			
da4-2702-7	10	11	21
da4-2744-7	10	10	20
da4-2774-1	8	0	8
da4-2809-9	13	8	21
da4-2811-0	25	9	34
s300-g6			
da4-2780-0	20	0	20
da4-2792-6	0	0	0
da4-2813-9	0	0	0
da4-2815-8	29	6	35
da4-2891-2	15	9	24
s300-g7			
da4-2717-8	31	0	31
da4-2730-2	60	17	77
da4-2787-3	28	12	40
da4-2880-9	67	24	91
s300-g8			
da4-2701-1	0	0	0
da4-2749-1	52	0	52
da4-2766-3	24	5	29
da4-2859-7	8	15	23

Mid-Term Exam: Practical Paper -- Original Questions

Student	Q1 (25)	Q2 (25)	Q3 (25)	Total (75)
s300-g1	C \ /	/		` /
da4-2703-3	8	0	10	18
da4-2707-1	25	4	0	29
da4-2742-8	3	0	0	3
da4-2746-6	4	0	0	4
s300-g2				
da3-2850-8	25	15	15	55
da4-2728-1	25	22	18	65
da4-2748-5	25	0	13	38
da4-2778-9	25	0	22	47
s300-g3				
da4-2741-2	16	0	15	31
da4-2819-6	10	0	0	10
da4-2844-6	5	6	4	15
da4-2856-2	25	10	10	45
s300-g4				
da3-2722-4	5	0	0	5
da4-2740-9	25	20	16	61
da4-2747-2	8	5	0	13
da4-2805-1	abs	abs	abs	0
da4-2832-0	5	0	3	8
s300-g5				
da4-2702-7	5	5	0	10
da4-2744-7	5	5	0	10
da4-2774-1	5	3	0	8
da4-2809-9	5	0	8	13
da4-2811-0	25	0	0	25
s300-g6				
da4-2780-0	10	10	0	20
da4-2792-6	abs	abs	abs	0
da4-2813-9	abs	abs	abs	0
da4-2815-8	23	0	6	29
da4-2891-2	15	0	0	15
s300-g7				
da4-2717-8	25	0	6	31
da4-2730-2	25	15	20	60
da4-2787-3	18	10	0	28
da4-2880-9	25	20	22	67
s300-g8				
da4-2701-1	0	0	0	0
da4-2749-1	25	5	22	52
da4-2766-3	10	0	14	24
da4-2859-7	0	5	3	8

Mid-Term Exam: Practical Paper -- Bonus Questions

Student	Q1 (10)	Q2 (10)	Q3 (10)	Total (30)
s300-g1	C \ /	/		
da4-2703-3	0	0	0	0
da4-2707-1	0	0	0	0
da4-2742-8	0	0	0	0
da4-2746-6	8	0	4	12
s300-g2		-		
da3-2850-8	10	8	9	27
da4-2728-1	10	8	10	28
da4-2748-5	0	0	0	0
da4-2778-9	0	10	0	10
s300-g3		-		-
da4-2741-2	0	0	0	0
da4-2819-6	0	0	0	0
da4-2844-6	0	0	0	0
da4-2856-2	0	0	0	0
s300-g4				
da3-2722-4	0	0	0	0
da4-2740-9	0	0	8	8
da4-2747-2	8	0	0	8
da4-2805-1	abs	abs	abs	0
da4-2832-0	0	0	0	0
s300-g5				
da4-2702-7	5	2	4	11
da4-2744-7	0	0	10	10
da4-2774-1	0	0	0	0
da4-2809-9	0	0	8	8
da4-2811-0	0	0	9	9
s300-g6				
da4-2780-0	0	0	0	0
da4-2792-6	abs	abs	abs	0
da4-2813-9	abs	abs	abs	0
da4-2815-8	0	0	6	6
da4-2891-2	9	0	0	9
s300-g7				
da4-2717-8	0	0	0	0
da4-2730-2	0	8	9	17
da4-2787-3	4	2	3	12
da4-2880-9	8	8	8	24
s300-g8				
da4-2701-1	0	0	0	0
da4-2749-1	0	0	0	0
da4-2766-3	1	1	1	5
da4-2859-7	7	0	8	15

Mid-Term Exam: Written Paper -> Short Questions

Student	Q1 (10)	Q2 (10)	Q3 (10)	Q4 (10)	Q5 (10)	Total (50)
s300-g1						
da4-2703-3	2	0	5	9	1	17
da4-2707-1	3	4	5	4	2	18
da4-2742-8	3	1	1	0	0	5
da4-2746-6	2	1	1	2	0	6
s300-g2						
da3-2850-8	4	4	6	3	2	19
da4-2728-1	5	8	8	3	0	24
da4-2748-5	2	0	3	0	0	5
da4-2778-9	3	0	0	0	0	3
s300-g3						
da4-2741-2	2	0	5	0	0	7
da4-2819-6	4	5	6	1	0	16
da4-2844-6	1	1	1	1	0	4
da4-2856-2	6	0	3	0	2	11
s300-g4						
da3-2722-4	6	1	7.5	0	0	14.5
da4-2740-9	3	0	4	0	0	7
da4-2747-2	8	2	7	0	0	17
da4-2805-1	abs	abs	abs	abs	abs	0
da4-2832-0	3	4	3	5	0	15
s300-g5						
da4-2702-7	5	2	4	6	0	17
da4-2744-7	1	0	5	1	0	7
da4-2774-1	3	2	5	0	0	10
da4-2809-9	2	4	0	3	0	9
da4-2811-0	4	0	9	0	0	13
s300-g6						
da4-2780-0	2	1	2	2	0	7
da4-2792-6	abs	abs	abs	abs	abs	0
da4-2813-9	abs	abs	abs	abs	abs	0
da4-2815-8	4	7	6	6	0	23
da4-2891-2	5	6	8	7	1	27
s300-g7						
da4-2717-8	1	0	1	1	0	3
da4-2730-2	6	2	9	0	0	17
da4-2787-3	4	2	3	3	0	12
da4-2880-9	4	4	7.5	4	0	19.5
s300-g8						
da4-2701-1	5	5	9	0	0	19
da4-2749-1	4	0	4	3	0	11
da4-2766-3	1	1	1	1	1	5
da4-2859-7	4	0	4	0	0	8

$\label{thm:mod-Term} \textbf{Mod-Term Exam: Written Paper -> Long Questions}$

Student	Q1 (25)	Q2 (25)	Q3 (25)	Total (75)
s300-g1	C \ /	()		, ,
da4-2703-3	3	4	0	7
da4-2707-1	4	5	8	17
da4-2742-8	3	5	10	18
da4-2746-6	0	0	0	0
s300-g2			Ţ.	_
da3-2850-8	0	15	0	15
da4-2728-1	20	18	14	52
da4-2748-5	4	6	4	14
da4-2778-9	0	6	0	6
s300-g3		-		-
da4-2741-2	5	5	5	15
da4-2819-6	6	21	5	32
da4-2844-6	0	1	3	4
da4-2856-2	0	0	0	0
s300-g4				
da3-2722-4	2	0	0	2
da4-2740-9	4	10	0	14
da4-2747-2	2	4	2	8
da4-2805-1	abs	abs	abs	0
da4-2832-0	2	2	2	6
s300-g5				
da4-2702-7	3	7	0	10
da4-2744-7	2	4	5	11
da4-2774-1	3	2	0	5
da4-2809-9	0	0	0	0
da4-2811-0	4	6	0	10
s300-g6				
da4-2780-0	2	0	3	5
da4-2792-6	abs	abs	abs	0
da4-2813-9	abs	abs	abs	0
da4-2815-8	14	5	5	24
da4-2891-2	8	7	4	19
s300-g7				
da4-2717-8	4	4	3	11
da4-2730-2	16	4	0	20
da4-2787-3	2	4	3	9
da4-2880-9	7	12	14	33
s300-g8				
da4-2701-1	5	4	0	9
da4-2749-1	0	2	7	9
da4-2766-3	1	0	3	4
da4-2859-7	2	5	6	13

Final Examination Score: Including Bonus Question (100 points)

Student	Response	Case	Bonus	Total	Semester Score
	Questions	Questions	Question	Exam Score	for Final Exam
	(100)	(100)	(100)	(200)	<30>
s300-g1					
da4-2703-3	0.0	0.0	0.0	0.0	0.0
da4-2707-1	17.0	28.0	45.0	90.0	13.5
da4-2742-8	15.0	24.0	40.0	79.0	11.9
da4-2746-6	23.0	12.0	0.0	35.0	5.3
s300-g2					
da3-2850-8	67.5	45.0	68.0	180.5	27.1
da4-2728-1	83.0	22.0	80.0	185.0	27.8
da4-2748-5	14.0	30.0	60.0	104.0	15.6
da4-2778-9	31.0	13.0	65.0	109.0	16.4
s300-g3					
da4-2741-2	14.0	31.0	50.0	95.0	14.3
da4-2819-6	42.0	25.0	65.0	132.0	19.8
da4-2844-6	15.0	15.0	45.0	75.0	11.3
da4-2856-2	25.0	10.0	0.0	35.0	5.3
s300-g4				22.0	
da3-2722-4	16.0	7.0	0.0	23.0	3.5
da4-2740-9	14.5	31.0	40.0	85.5	12.8
da4-2747-2	44.0	28.0	65.0	137.0	20.6
da4-2805-1	0.0	0.0	0.0	0.0	0.0
da4-2832-0	12.5	15.0	50.0	77.5	11.6
s300-g5	12.0	10.0	2010	7,7.0	11.0
da4-2702-7	19.0	26.0	70.0	115.0	17.3
da4-2744-7	14.0	30.0	50.0	94.0	14.1
da4-2774-1	15.0	9.0	0.0	24.0	3.6
da4-2809-9	26.0	0.0	25.0	51.0	7.7
da4-2811-0	28.5	21.0	75.0	124.5	18.7
s300-g6					1017
da4-2780-0	16.5	0.0	0.0	16.5	2.5
da4-2792-6	0.0	0.0	0.0	0.0	0.0
da4-2813-9	14.0	0.0	30.0	44.0	6.6
da4-2815-8	43.5	35.0	70.0	148.5	22.3
da4-2891-2	48.0	15.0	75.0	138.0	20.7
s300-g7		-2.0			
da4-2717-8	5.0	20.0	50.0	75.0	11.3
da4-2730-2	16.0	35.0	75.0	126.0	18.9
da4-2787-3	9.5	13.0	60.0	82.5	12.4
da4-2880-9	52.0	40.0	65.0	157.0	23.6
s300-g8	22.0	10.0	05.0	157.0	25.0
da4-2701-1	21.0	16.0	0.0	37.0	5.6
da4-2749-1	27.0	25.0	75.0	127.0	19.1
da4-2766-3	25.0	11.0	0.0	36.0	5.4
da4-2859-7	6.0	15.0	45.0	66.0	9.9
ua+-2033-1	0.0	13.0	73.0	00.0	7.7

Final Examination Score: Response Questions (100 points)

Student	Q1	Q2A	Q2B	Q2C	Q2D	Q3	Q4	Q5	Total
	(10)	(10)	(10)	(10)	(10)	(20)	(20)	(10)	(100)
s300-g1									
da4-2703-3	abs	0.0							
da4-2707-1	5.5	4.0	2.5	1.0	0.0	4.0	0.0	0.0	17.0
da4-2742-8	2.0	3.0	0.0	1.0	3.0	5.0	1.0	0.0	15.0
da4-2746-6	5.0	4.0	2.0	2.0	4.0	6.0	0.0	0.0	23.0
s300-g2									
da3-2850-8	9.0	9.5	8.0	6.5	10.0	14.5	8.0	2.0	67.5
da4-2728-1	10.0	8.0	8.5	9.0	8.5	14.0	17.0	8.0	83.0
da4-2748-5	4.0	0.0	1.0	2.0	0.0	3.0	4.0	0.0	14.0
da4-2778-9	5.0	4.0	5.0	2.0	4.0	6.0	5.0	0.0	31.0
s300-g3									
da4-2741-2	1.0	7.0	0.0	0.0	0.0	4.0	0.0	2.0	14.0
da4-2819-6	7.0	6.0	4.0	2.0	7.0	13.0	3.0	0.0	42.0
da4-2844-6	2.0	3.0	2.0	2.0	3.0	3.0	0.0	0.0	15.0
da4-2856-2	2.0	2.0	2.0	2.0	5.0	4.0	4.0	4.0	25.0
s300-g4									
da3-2722-4	4.0	5.0	0.0	0.0	0.0	0.0	1.0	6.0	16.0
da4-2740-9	5.0	2.5	0.0	2.0	2.0	3.0	0.0	0.0	14.5
da4-2747-2	8.5	8.0	6.0	4.0	5.0	12.5	0.0	0.0	44.0
da4-2805-1	abs	0.0							
da4-2832-0	3.5	5.0	4.0	0.0	0.0	0.0	0.0	0.0	12.5
s300-g5									
da4-2702-7	3.0	4.0	2.0	2.0	2.0	4.0	2.0	0.0	19.0
da4-2744-7	3.0	3.0	0.0	3.0	5.0	0.0	0.0	0.0	14.0
da4-2774-1	2.0	1.0	2.0	1.0	3.0	1.0	5.0	0.0	15.0
da4-2809-9	5.0	5.0	3.0	4.0	3.0	6.0	0.0	0.0	26.0
da4-2811-0	5.0	2.0	2.0	6.0	5.5	7.0	1.0	0.0	28.5
s300-g6									
da4-2780-0	5.0	4.0	4.0	1.5	0.0	2.0	0.0	0.0	16.5
da4-2792-6	abs	0.0							
da4-2813-9	1.0	3.0	0.0	3.0	1.0	5.0	1.0	0.0	14.0
da4-2815-8	5.5	9.5	4.0	3.0	5.0	11.5	5.0	0.0	43.5
da4-2891-2	8.0	6.0	4.0	3.0	3.5	6.0	9.5	8.0	48.0
s300-g7									
da4-2717-8	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
da4-2730-2	5.0	3.0	0.0	3.0	1.0	4.0	0.0	0.0	16.0
da4-2787-3	3.5	2.0	0.0	1.0	1.0	1.0	1.0	0.0	9.5
da4-2880-9	6.0	7.0	10.0	7.5	4.5	14.0	3.0	0.0	52.0
s300-g8									
da4-2701-1	5.0	7.5	5.5	3.0	0.0	0.0	0.0	0.0	21.0
da4-2749-1	5.0	5.0	2.0	2.0	3.0	8.0	2.0	0.0	27.0
da4-2766-3	4.0	4.0	4.0	2.0	4.0	6.0	1.0	0.0	25.0
da4-2859-7	2.0	1.0	2.0	0.0	1.0	0.0	0.0	0.0	6.0

Final Examination Score: Case Questions (100 points)

Student	Qa	Qb	Qc	Total
	(25)	(25)	(50)	(100)
s300-g1	, ,	, ,		,
da4-2703-3	abs	abs	abs	0.0
da4-2707-1	8.0	5.0	15.0	28.0
da4-2742-8	4.0	5.0	15.0	24.0
da4-2746-6	2.0	5.0	5.0	12.0
s300-g2				
da3-2850-8	15.0	15.0	15.0	45.0
da4-2728-1	8.0	6.0	8.0	22.0
da4-2748-5	50	10.0	15.0	30.0
da4-2778-9	8.0	5.0	0.0	13.0
s300-g3				
da4-2741-2	8.0	8.0	15.0	31.0
da4-2819-6	15.0	10.0	0.0	25.0
da4-2844-6	0.0	5.0	10.0	15.0
da4-2856-2	5.0	5.0	0.0	10.0
s300-g4				
da3-2722-4	5.0	2.0	0.0	7.0
da4-2740-9	8.0	8.0	150	31.0
da4-2747-2	10.0	10.0	8.0	28.0
da4-2805-1	abs	abs	abs	0.0
da4-2832-0	5.0	5.0	5.0	15.0
s300-g5				
da4-2702-7	8.0	8.0	10.0	26.0
da4-2744-7	5.0	10.0	15.0	30.0
da4-2774-1	5.0	4.0	0.0	9.0
da4-2809-9	0.0	0.0	0.0	0.0
da4-2811-0	5.0	8.0	8.0	21.0
s300-g6				
da4-2780-0	0.0	0.0	0.0	0.0
da4-2792-6	abs	abs	abs	0.0
da4-2813-9	0.0	0.0	0.0	0.0
da4-2815-8	15.0	20.0	0.0	35.0
da4-2891-2	5.0	5.0	5.0	15.0
s300-g7				
da4-2717-8	5.0	5.0	10.0	20.0
da4-2730-2	10.0	10.0	15.0	35.0
da4-2787-3	3.0	5.0	5.0	13.0
da4-2880-9	15.0	15.0	10.0	40.0
s300-g8				
da4-2701-1	6.0	10.0	0.0	16.0
da4-2749-1	5.0	5.0	15.0	25.0
da4-2766-3	3.0	3.0	5.0	11.0
da4-2859-7	5.0	5.0	5.0	15.0

COURSE MEMORY

In this fall-2006 semester of SFTW300, I have been trying to put in place an electronic portfolio-based (ePortfolio) system to help track the learning of my students, and the pace and quality of my teaching performance. The vision is to create the necessary portfolio for each student to serve as his or her pathway from classroom to career. Currently, my conceptualization of the ePortfolio-based education starts from the means of capturing student progress through a specific sequence of course activities students undertake under my teaching assignment (involving student work, student reflection, and faculty comments related to various activities of teaching and learning) to the technological potential which allows students, faculty, and institutions to enable each student to have a personally managed, meaningful, coherent, integrated record of learning that demonstrates competence, transcends educational levels, and is portable across different aspects of learning be it formal or informal.

Specifically, it is convinced that such portfolios should provide the means for students to set learning goals, monitor and regulate their progress toward these goals, as well as develop their self-assessment skills. Practically, to realize the ePortfolio-based educational services, I need to keep a video record of my every lecture and tutorial, provide lecture and tutorial delivery records, render timely and relevant electronic resources for my students to absorb, and keep track of every piece of coursework done by my student be it done individually or in group. Essentially, instead of keeping a paper record of my students' work, I have resorted to keeping soft copies (electronic medium). The current course memory for SFTW300 in this past semester has occupied close to 500GB of hard-disk space, most of which are DVD videos of my lectures and students' coursework activities including presentation and workshop sessions. Please refer to the package of DVD's attached for your convenience. The open-sourced Eclispe 3.2.1 environment is recommended to see through the coursework records of my students. Please also peruse the folder of paper records of my lecture and tutorials delivery throughout the semester.

COURSE REFLECTION

It is my observations that the majority of students still believes that taking a course is largely listening to lectures, doing some homework at home, writing a test, and sitting for the final exam. Anything more than this "normal" mode of course delivery, and especially in project-based learning, is something strange that is to disrupt their busy schedule of attending classes and attending to their part-time jobs. They are largely finding it difficult to get used to project work, especially group-based project work with a clear definition of task assignments among team members. Quality of learning comes largely from instructors' talking and slides

instead of the down-to-earth experience of their individual learning processes. "Learn to learn" sounds too distant to be of immediate interest to their expected way of earning an acceptable grade to "get by" the four-year degree program. Perhaps, I might not be accurate enough in my understanding; yet, I am quite willing to listen and to see the situation of concerns more clearly.

COURSE EVALUATION

A formal course evaluation was conducted by the Faculty on December 1, 2006, exactly two weeks before the end of the semester's class schedule. There was an instructor-initiated course evaluation whose questions closely match the formal evaluation, and that was done on December 15, 2006, the last day of class. This second evaluation was designed to collect data from students regarding two aspects: course aspect, and instructor aspects. The results of this second evaluation are provided below. A copy of the evaluation form is also attached to interpret the results provided below:

Course Evaluation

Item under	STD	D	SLD	SLA	A	STA	Average
Evaluation							Score
1		1	8	12	6	3	122/30 = 4.07
2	2	2	3	13	8	3	125/31 = 4.03
3		4	8	6	12	1	122/31 = 3.94
4	4	8	7	6	4	1	91/30 = 3.03
5	1	5	6	10	5	4	118/31 = 3.81
6	1	3	8	10	8	1	117/31 = 3.77
7	4	8	6	4	6	1	90/29 = 3.10
8	5	8	9	5	3	1	89/31 = 2.87
9	1	3	3	9	12	1	114/29 = 3.93
10	2	4	4	9	9	3	121/31 = 3.90
11		9	4	11	5	2	111/31 = 3.58
12	3	4	9	7	5	3	109/31 = 3.52
Subtotal	23	118	225	408	415	144	1333/366 = 3.64

Instructor Evaluation

Item under	STD	D	SLD	SLA	A	STA	Total Count
Evaluation							
1	1	1	2	14	10	3	133/31 = 4.29
2		2	9	8	9	3	126/31 = 4.06
3	2	5	10	8	5	1	105/31 = 3.39
4		2	4	9	11	4	131/30 = 4.37
5	1	4	9	7	8	2	116/31 = 3.74
6	3	10	4	9	3	2	98/31 = 3.16
7		2	8	9	8	4	128/31 = 4.13

Fall 2006: K.H.VAT(Mr.)

SFTW 300 Software Psychology: Course Delivery Report

8		6	5	10	8	2	119/31 = 3.84
9	2	4	9	9	5	2	110/31 = 3.55
10	1	3	8	9	7	2	114/30 = 3.80
11	3	1	9	12	5	2	117/31 = 3.77
12	2	1	9	12	6	1	115/31 = 3.71
Subtotal	15	82	258	464	425	168	1412/370 = 3.82

Student Comments and Instructor Feedback

A) Strength and Weaknesses of this course

Form	Student Comments	Instructor Feedback
ID		
1.	Strength: Learn some special thing for	Instructor: The core of the course is user and
	design program; it is so fresh for me.	task analysis for interface design. It involves
	Weakness: Use many time, money,	learning some latest practices from the
	paper, etc; notes can use e-note, don't	industry. Truly, it is "fresh" for students. Since
	waste the trees.	many of the reference books put in Library
		Reserved Materials are copyrighted, it is not
		possible to scan them all and put them as
		e-notes. I suggest students come to consult the
		references in the Library, but photocopying of
		the referenced chapters is at students'
		discretion.
2.		Instructor: Thanks for sensing something
	_	practical from the "real world." This course
		named Software Psychology is actually a
	•	dilemma, because the instructor needs to
		scaffold students' studies with numerous
		references in the field of human-computer
	•	interaction, as well as exemplary articles in
	organization.	user-centered design, to steer your focus on
		the semester's project-based learning. It is true
		that students need to exert a high cognitive
		loading to organize your learning
		systematically. My role as an instructor cannot
		impose my systemic thinking to students when
		they could always create their own paths in
2	C. J. XXI. 1 C.	integrating their learning in their project work.
3.	_	Instructor: Thanks. I should be more grateful
	technique of this course. Through this	*
		understanding user-requirements in doing
4	developer and client	
4.	The course use different model to teach us. Actually, it is better than just stay in	11 &
		course experience.
	the seat and listen to the class; that is	
	easier to accept the knowledge in practice. Since this course is a kind of	
	abstract course, we must read a lot of	

	books, so as to change the knowledge into some more practical form that is	
	better.	
5.	it should teach us how to make system	Instructor: I believe this student must not have read the course outline carefully, and he must have missed the first two weeks of class to miss the whole point. We did not do pure-Java programming in the semester, but Swing-based GUI programming to learn designing graphical user interfaces, to help complete the project work of user-interface prototyping on Web pages. This is an important part of the semester project. We are doing project-based learning this semester.
6.	course. But the strength of it is not shown yet. It is good to get touch with the management rationale for software	Instructor: That is why we need to learn user-centered design in action; namely, in terms of gathering requirements from customers (Requirements Workshop sessions), and verifying the requirements gathered through the agreed-upon Memo of
7.	students practical experience about course related context. Weakness: Too much coursework compared with other courses. Takes too much time to prepare the course for students. Affect the learning of other	Instructor: It is very true that for students used to the didactic learning approach (less cognitive loading), when they first encounter project-based learning, would need a longer learning curve to appreciate the benefits of the approach, i.e., ability developed to address problems independently, and reflectively. The experience of project-based learning to the success of students' later careers has been echoed consistently, though.
8.	every time to pay much money to copy the material is not good. We do not have enough money to do this and no times to read all the material. The homework is too many. Every time using a lot of time to think about the meeting. In fact, there are no ideas for it and I think it is no use. Because it is only a paper of thinking. It is	Instructor: As an instructor, it is my responsibility to put aside reference reading for students' use throughout the semester to supplement their study. It is also my suggestion that students should acquire the textbooks. The text and reference books suggested and made available in the library reserved are very important course materials to catch up with the lectures and project-work. As a conscientious student, you should make yourself understand the assigned reading by reading these reference resources one day at a time in the library. Or, you should choose to make some photocopies at your own discretion. There is no homework assigned in

		this semester, except for project-related documents you need to submit to obtain your scores.
10.		
11.	The course let me know how to organize a project and how to finish it easy both individual and team-based project. But the course is a little bit speed our time. If the meeting is a little bit less is better.	
14.	have 4 projects, 1 mid-term, and 1 final	Instructor: There is only one project, divided into four milestones, respectively taking about one month each, except for the last, only 2 weeks. And this is a team project.
15.	communicate developer and client and some meeting to improve of the course.	understand the bottom line of work required to meet deadlines. There is no short cut to this
17.	learning is good for us to discuss and	Instructor: Thanks for the encouragement. I see your point. Yet, this course has actually been extended to the middle of January 2007. Namely, we have more than 20 weeks altogether to accommodate our project-based learning.
18.	us, but it also has a lot of writing work for us. Actually, CIS students have some other projects to do; so, if there	Instructor: In this semester, SFTW300 is largely concerned with prototyping Web-based user interfaces based on a careful and ongoing elicitation process of user requirements. A lot of task analysis is involved, whose illustration is often done using some Swing-based Java programs together with some static or dynamic Web pages designed to support the

		client's specific purposeful activities.
19.	Strangth: Learn more about how to	Instructor: The core of the course is user and
19.		task analysis for interface design (Web user
	1	
	work in a group.	interface design) (milestones #1 and #2),
		followed by prototyping of the system services
		(milestone #3) and usability testing or study
		(milestone #4). Anyway, thanks for your
		comments.
20.	- Table 1 - Tabl	Instructor: I see. Learning how to budget and
	student to be a professional engineer or	manage our time for coursework (especially
	join a computer development company.	when doing several courses together) is a
	Because it provides some real software	constant practice. Students must be alert not to
	_	waste time haphazardly. So, it is
	1 0 1	recommended that if you have a part-time job
		which so much occupies two to three evening
	time to do other things.	hours of yours, you must be further alert to
	time to do other timigs.	cherish your free time of study. Your time
		-
		invested in your study should earn you a better
		position to make your living after your 4 years
		of study.
22.	1	Instructor: I see. Indeed, group-based project
	work techniques.	work is an important emphasis of this course.
23.	For me, it is a good course to learn the	Instructor: I see. There is no short cut to
	work in the real world. Simply, it is a	learning something, and internalize it as your
	practical class. However, this course	own knowledge, which is then externalized in
	cannot fully virtual a real environment	your project work. The learning curve
	1	fluctuates among different students. That is
		why you need to work in teams to complement
	·	one another. I suggest that you should set clear
	much as I pay.	goals in your study, and reflect how far you
	mach as I pay.	have reached, and devise strategies to bridge
		the gaps. In a team project environment, you
		have the responsibility to share your work
		with your team members and expect their
		suitable responses to help improve the
		situation.
25.	Course works are quite heavy.	Instructor: I see. Students getting used to the
		traditional didactic mode of learning are more
		likely to experience the difficulty of managing
		time to get the work done in the project-based
		learning style. Students must be encouraged
		and empowered from time to time in order to
		improve their learning outcomes, and to
		shorten their learning curves. This is an
		invaluable opportunity to grow up as a
		university student.
26	(Original in Chinasa) I distribute	-
26.		Instructor: I see. Thanks for catching the core
	could practically enable us to learn how	
	to interact with clients in software	

	requirements management.	
28.	This course has many works to do, and	Instructor: Thanks for letting me know your
	the students were choosing 6 ~ 7	difficulties, and please be reminded that we
	courses, is hard to spend time on those	actually have one month's time for the first
	courses. But, this course makes me	three milestones, and seventeen days for the
	know more about Java. However, the	last milestone 4. Please check your schedule
	time scheduled is not good enough. The	carefully.
	milestone#1 has a month time, and the	
	milestone#4 only several days.	
29.	Strength: Learn to be a real case	Instructor: I see. Please learn not to ignore
	developer.	the other courses when you are working
	Weakness: Spend too much time on the	conscientiously in a specific course. This is a
	project; ignore the learning of other	life lesson you must manage to learn because
	courses.	in the real life of work, we seldom have the
		luxury of doing only one thing at a time. We
		need to learn how to make ends meet.
30.	No comments, because I don't know a	Instructor: I see.
	way of software psychology.	
31.	This course may be good to learn	Instructor: I see. Please do not concentrate on
	something about software program.	taking many courses when taking fewer
	But, the project work is too many,	courses could enhance the quality of your
	because many students have taken more	study. It is no shame to finish the program a
	than 5 courses. If one day has 48 hours,	bit later, with a better foundation of
	it can finish all the things in one day.	professional expertise.

B) Strength and Weaknesses of the teaching of the instructor

Form ID	Student Comments	Instructor Feedback
1.	us; have little improve than last year.	Instructor: Thanks for being teachable as a student. I should appreciate it if you could be more concise on what areas of my teaching is to be made more professional.
2.	something, actually, the material is too much, and confuse us. It's better to use WebCT to put some important announcements there and also prepare Course Notes just like other teachers. The reference material should focus on the course notes as one kind of extension, and make it as brief as possible. Don't say chapters X-Y of some books. It better abstract some important concepts for us and put them into WebCT, because more than 20	Instructor: Thanks for the valuable comments. Please do not forget the important course resources (including lecture notes) made available in our Library Reserved Materials under SFTW300, which is updated at the end of each week, mostly on Saturday afternoon. The delivery style of Software Psychology in this semester has been largely project-based learning, a modified form of problem-based learning. This style of instruction requires of the students to look up and identify suitable resources in the process of working out the project problems at hand. And this is done as a form of group-based project work. The focus of this semester as

lots of time and money to copy them.

introduced in the first week of class, is design in Web project user-centered prototyping. The blueprint of the students' work and learning throughout the semester is summarized in my course note (paper) and made available to the whole class in that first week of our semester. Please recall the paper "Integrating Industrial Practice in Software Development through Scenario Based Design of PBL Activities." All the reference reading assigned suggested and for photocopying, must be understood on the basis of how useful it is to our project work, in of technique, and/or contextual understanding of user-centered design. It is that simple. If students get confused, my experience indicates that they might have forgotten to carefully read the blueprint paper. Please also do not ignore the second important paper delivered toward the middle of the semester "Negotiated learning contracts in team projects". The idea of this paper is to invite you to pause, to reflect, and to ask what learning I am to acquire, in what ways, with what resources, and/or what sort collaboration with my team members? This is the style of independent autonomous learning characterized by university students, not any longer the style often encountered in the conventional secondary schools (didactic in a sense that students must rely on the teacher as the sole source of knowledge). simplification of truth (knowledge) by instructor and then fed to students second-handed knowledge, is encouraged style of learning. Besides, since most of you have chosen not to buy your designated textbooks to correlate with my lectures, it becomes much more important to provide reading resources for the whole class to reference my lectures. Yet, it is always my recommendations that students should purchase their textbooks and follow with the instructor's lectures accordingly. Notes cannot replace a textbook whose author(s) have spent their "blood" to finish it (which happens to be so easily photocopied with not much respect to their copyrights).

3. Strength: Our instructor Mr. Vat is very Instructor: Thanks for your encouragement.

	enthusiastic about this course. He has a	
	sense of responsibility.	
4.	<u> </u>	Instructor: I share your understanding; it
4.	_	takes a conscientious student to make a man of
	much; occupy my whole life-time; so	
	that cannot encourage me in this course	icarining.
5.		Instructor: It is important to demonstrate in
٥.		class our practical work such as conducting a
	-	•
		interview meeting, requirements workshops,
		and joint application development sessions,
		besides helping students to understand using
		the Swing library with Java, through the
		Eclipse environment.
6.		Instructor: It is preferable to have first
		studied some techniques and then apply the
	_	same to solve the problems at hand. However,
	_	in project-based learning, we need to acquire
	_	the skill of just-in-time learning; namely,
		because of the job to be accomplished, we
	<u> </u>	need to identify what needs to be learned, and
		how to learn it, and how much to allow
		learning the specific techniques. Then apply
	[*	the learning, reflect, and collect the lessons
		learned, and start the cycle again. This is the
		basic practice of "learning to learn". It is the
		most important know-how we need to acquire in life. That is one of the specific goals in this
		course. I believe you starting perceiving the
		challenge now, and you should proceed to
		accept this challenge and do a good job in
		acquiring learning and accomplishing your
		work at hand.
7.		Instructor: It is planned to have one month
/ .		for each of the four milestone: Sep, Oct, Nov,
	~	and Dec. However, owing to semester
		constraints (holidays) in delivering lectures
	8	and tutorials, we achieved allowing one month
		for the first three milestones, but only about
		two weeks for the last (fourth) milestone.
8.	- 	Instructor: Please read the course syllabus
0.		and schedule for course work carefully, and
	_	make sure you are aware of what to
		accomplish in the semester, and work out your
	· ·	learning in a down-to-earth manner. It takes
	_	efforts to learn something. Don't give up.
10.		Instructor: Thanks for your being considerate
10.	experience in the SFTW300 course; so,	•
	he is very suitable to be this course	or my workload, too.
	instructor and he has the knowledge of	
	moducior and he has the knowledge of	

	SFTW300 well. The only weakness of	
	the teaching of the instructor is so many	
	jobs done only one person; maybe, Mr.	
	Vat can apply to the university to add a	
	teaching assistance. It can help reduce	
	the jobs taking of the instructor and	
	prepare the course much better.	
11.	<u> </u>	Instructor: Thanks for your support and
	about the course. He teaches us a lot of	•
	useful things, both in how to design a	~ ~
	program and how to finish a project.	
14.		Instructor: I see. Maybe, you need some help
14.	_ ·	from your team members to share your
		workload.
1.5	really too much for me.	
15.	Strength: Let us know more about	
	meeting and communications; let us	
	make more clearly list, pack up the file	
	namely, file clearly. Improve or	
	disadvantage for above.	
	Weakness: Give marks too hard and too	
	many works.	
17.	The instructor is well prepared; the	Instructor: I see.
	course and student assessment was	
	done fairly. The weakness is the project	
	topic that the instructor gave, is not	
	very interesting for me.	
18.	 	Instructor: I see. Are you implying we should
	-	not be having meetings like Requirements
	instructor.	Workshop, Joint Application Development,
	instructor.	Review, and Evaluation Sessions, outside the
		class hours? I love to do so, except for the fact
		that we need the regular class hours to
		_
		complete the Swing tutorials, and to pilot the
		course activities, in terms of upfront lectures
		and discussion, and other course management
		activities. Thanks for spending time (your free
20		time) to learn in this course.
20.	_	Instructor: Thanks. I do have my office hours
		set from 1:00 to 2:00 at library L219-3/4 from
	I -	Monday to Friday. Please do not forget that
	some questions about the tutorials.	you are welcomed to ask me any questions
		during these office hours even though you
		might be bringing your lunch into the
		consultation room.
22.	The instructor gave me more project	Instructor: I see. This must be the first time
	works than any other courses.	you ever participate in group-based project
		work, in a semester oriented towards
		project-based learning. Students must learn to
		manage their own learning throughout the

		project duration. Certainly, students need to do
		a lot of housekeeping of their knowledge acquired in the process.
23.	Strength: English is good.	Instructor: Please pay attention to the scoring
23.		advice given in the evaluation session, and
		make sure that your team incorporates them in
	besides the course.	your next set of milestone deliverables. Ask
		your team members' help to enable the whole
		team to score higher. Please do not forget the
	_	importance of writing a good description of
	because of the huge amount of works in	your Personal Contributions, including your
	this course. In addition, after finished	perceived major contribution.
	the huge amount of work, I always get	
	very low bonus. This situation really	
	makes me disappointed times by times.	
	And make me start afraid of study. That	
	is the most important for me.	
25.	Well prepared, and organized.	Instructor: Thanks for your encouragement.
26.	1 1 2	Instructor: Thanks for your encouragement.
20.	very enthusiastic in his teaching, and	
	the course lectures and materials are	
•	delivered in a very organized manner.	
28.		Instructor: Thanks for your information.
	instructor is almost use his ideas and	1
	_	welcomed to come asking for help during my
		regular office hours from Monday to Friday at
	more students' ideas and to know their	Library L209-3/4, from 1:00 to 2:00. I am
	works, which are hard to finish or	interested in knowing more of your thinking
	implement. That will give a big	and difficulties.
	improvement.	
29.	Strength: Work out a project in a real	Instructor: As emphasized time after time in
	case.	class and tutorials, you need to make use of
	Weakness: There is no relationship	the Swing-based Java programs (covered in
		the tutorials) in many of your Web pages
	meetings have to do after class.	prototype (in milestone #3) to illustrate some
	meetings have to do after class.	useful services in the form of popup
		applications for your client. Please do not
		ignore your learning in the 10 tutorials
30.	I have instructor tanches some summent	covered throughout the semester. Instructor: I see. Please read our course
50.	-	
	affair about computer, software, and	symaous very carefully.
21	hardware information.	T
31.		Instructor: I see. It looks like spending time
	1, -	outside the class hours (in our case, from 1:00
		to 2:00 p.m., in Milestone #1, and from 6:00 to
	must have a well time planning before	8:00 p.m. in Milestone #2, as well as from
	this semester, including the project	4:00 to 6:00 p.m. in Milestone #3, for each
	work.	group during weekdays) is not to be
		appreciated, even though this means an
	•	, <u>, , </u>

important part of your semester learning.

C) Suggestions on improving the quality of course management and teaching performance

Form	Student Comments	Instructor Feedback
ID		
	b. Don't change the thing so suddenly.c. Don't give too low mark for us in milestone. Maybe, this is not so good product of us, but we have	Instructor: Thanks for urging us teachers to learn more ourselves. I should appreciate it if you could be more concise on what aspects of our class have been changed so suddenly. According to my lecture records, here are the major changes performed in the semester: a) Changed the date of the mid-term written from Dec-6-2006 to Dec-14-2006 because some of you have participated in a trip to Hong Kong to attend the International Telecom Expo. b) Changed the date of the JAD for g5g2 from Dec-13-2006 to Dec-15-2006, from 6:00 - 8:00 p.m. because of the University's Christmas dinner at Macau Tower. c) Changed the time of the JAD for g6g8 on Dec-6-2006 from 6:00 - 8:00 to 4:00 - 6:00 as a result of Issac's request forwarded through Anthony Tam.
		Scoring in the milestone is largely your responsibility once the instructor has released the guideline for evaluation. It is suggested that you follow the advice given in class and in the milestone evaluation session of your group to see how you could acquire a better grade. My job as an instructor is to enable you to learn by helping you see through your weakness in the project work. I respect each group's efforts spent in the milestone. Yes, you have spent "your blood" to do this. So, make sure to write a concise description of your Personal Contributions, making sure not to forget to emphasize your major contributions in the milestone.
4.		Instructor: I see.
6.	and inappropriate work is done. I think this amount should be controlled by the instructor.	Instructor: As far as learning is concerned, there is no surrogate to replace your hard work. It is true that in order to acquire the skills required, we need to iterate before we could properly manage our learning. In our

]	questions is not clear enough.
17.	I think the development topic is better	1
17.	for free-to-choose by client or maybe,	
	more topic for us to choose from: e.g.,	
	online bank, games, e-learning system,	
	and hotel booking.	
22.		Instructor: I see. Students must learn to get
		used to coursework since this is what makes
	course.	an ordinary student a man of learning,
		especially on their way to becoming
		professional practitioners in software
		development.
23.	Since time is limited to everybody, the	· ·
		part-time jobs these days. I do not have any
		objections. Yet, time is a scarce resource for
		those who would like to do more in their
		study, besides having their part-time jobs. As a
	•	conscientious student, you need to make your
		own decisions as to what to do, when you
		discover that your part-time job might affect
		your study. The standard set in each course for
		each student to reach in a university program
		is not to be ignored. It is a serious matter that
		we teachers need to stick to this standard to deliver our courses, with our expertise. It is
	<u> </u>	not likely to change this standard haphazardly;
		otherwise, we are creating problems in
		exercising fairness in the assessment of each
	That is the most typical stadent s me.	student in class.
26.	(Original in Chinese) I think the	Instructor: Thanks for recognizing my using
	lecturer has done a good job in	a lot of my own time (shared with my family
	organizing the course delivery. Besides,	indeed), in helping you guys to learn more
	he always uses his own time to help us	outside of class hours.
	learn something more; he is also very	
	patient in answering our queries.	
28.	Please use as simple as possible format	
	_	Problem-based learning emphasizes a lot of
		your group-based project work. And as
		instructor and as the facilitator I am quite
	_	willing to listen to students' difficulties and
		extend as much scaffolding as possible. But, it
		is important that students must be active
		enough to ask questions before the instructor
		could see where to extend help. There is a
	-	1-to-35 teacher to student ratio in our class. It
	of.	is not very likely that the instructor alone can have enough time to interact with each student
	01.	in each class of 120 minutes, taking into
		account the time for lecture delivery and
		account the time for recture derivery and

Fall 2006: K.H.VAT(Mr.)

tutorial demonstration. Please let me know
more of your problems by emailing me or
arranging an interview with me.

Evaluation Form Attached as follows:

All the evaluation forms filled in by students for my evaluation are available for inspection, and are attached for perusal purpose.

University of Macau, Macau

Faculty of Science & Technology

Department of Computer & Information Sciences

SFTW 300

Software Psychology

First Semester 2006-2007

Course and Instructor Evaluation by Students

Date: December 15, 2006, J210 Time Allowed: 30 Mins

Results:

- 1) This is a 2-part course and instructor evaluation survey, plus a *Comments* portion for written feedback.
- 2) Please complete each evaluation item by ticking your choice of parentheses representing your experience of the situation of concern: [STD() D() SLD() SLA() A() STA()].
- 3) The notation used to indicate the evaluations of each item are: (STD 1) strongly disagree, (D 2) disagree, (SLD 3) slightly disagree, (SLA 4) slightly agree, (A 5) agree, and (STA 6) strongly agree.
- 4) This paper is written individually. Please do not chat with other students while completing this survey.

Fall 2006: K.H.VAT(Mr.)

Please Turn Over!

Course Evaluation

1. [STD()D()SLD()SLA()A()STA()]

The course has been conducted according to the syllabus outline at the beginning of the semester.

2. [STD() D() SLD() SLA() A() STA()]

The course has been presented well prepared, in terms of the resources provided to the students.

3. [STD()D()SLD()SLA()A()STA()]

The organization of instruction and coursework throughout the semester has been well demonstrated.

4. [STD() D() SLD() SLA() A() STA()]

The quality of instruction demonstrated in the course has induced students' interest in the further exploration of the subject matter covered throughout the semester.

5. [STD() D() SLD() SLA() A() STA()]

The course style of instruction through project-based learning has been well received among students.

6. [STD() D() SLD() SLA() A() STA()]

The course arrangement of team-based project work has been well received among students.

7. [STD()D()SLD()SLA()A()STA()]

The course assessment of students' individual performance has been conducted on a fair basis.

8. [STD()D()SLD()SLA()A()STA()]

The amount of coursework required throughout the semester has been fairly distributed.

9. [STD() D() SLD() SLA() A() STA()]

The learning received by students has been perceived as something useful in the subsequent careers or studies of the students.

10. [STD() D() SLD() SLA() A() STA()]

The course has brought forth some of the latest practices or learning in the related field of professional expertise.

11. [STD()D()SLD()SLA()A()STA()]

The course has been managed to allow students to perceive the inter-relationships of the knowledge (or learning) acquired and required in other courses.

12. [STD() D() SLD() SLA() A() STA()]

The course has been a good learning experience in your chosen program of study.

Instruct		uation SLD()	SI A ()	A ()	STA()	1
1. [31D	() D()	SLD()	SLA()	A()	31A()	1
The instructor	or came to	class well pre	pared.			
2. [STD	() D()	SLD()	SLA()	A()	STA()	1
The instructor	or's present	ations were w	vell organized	1.		
3. [STD	() D()	SLD()	SLA()	A()	STA()]
The instructe	or presented	l course ideas	very clearly.			
4. [STD	() D()	SLD()	SLA()	A()	STA()]
The instructo	or had great	enthusiasm f	for the subjec	t.		
5. [STD	() D()	SLD()	SLA()	A()	STA()]
The instructo	or's knowle	dge of the su	bject is good.			
6. [STD	() D()	SLD()	SLA()	A()	STA()]
The instructo	or's student	assessment v	vas done fair	ly.		
7. [STD	() D()	SLD()	SLA()	A()	STA()]
The instructor was available for consultation outside the class.						
8. [STD	() D()	SLD()	SLA()	A()	STA()]
The instructor's laboratory portion of the course was well coordinated with the lecture portion.						
9. [STD	() D()	SLD()	SLA()	A()	STA()]
The instructor has effectively demonstrated proper use of equipment in the laboratory.						
10. [STD	() D()	SLD()	SLA()	A()	STA()]
The instructor was knowledgeable about the subject matter of the course.						
11. [STD	() D()	SLD()	SLA()	A()	STA()	1
The instructo	or was patie	ent with my q	uestions.			

The instructor has blended an innovative style of learning with traditional teaching practice.

SLA()

A() STA()]

12. [STD() D() SLD()

Comments

1)	What do you think the strengths and weaknesses of this course?
2)	What do you think the strengths and weaknesses of the teaching of the instructor?
3)	Any comments or suggestions on improving the quality of course arrangement and teaching performance.