OFF-CAMPUS PROGRAM ASSESSMENT
ASSESSMENT ACTIVITIES
Fall 2008

Degree Program: MBA/MSSE  Location: Rose Orchard Tech Center
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SCHEDULE OF ASSESSMENT ACTIVITIES

Please complete the schedule of assessment activities below by listing all Program Outcomes (POs) by number down the left column and indicating when data were/will be collected (C) and when they were/will be discussed (D) by your faculty. You can also schedule/track program changes resulting from your assessment activities by indicating an “I” (implemented changes) where relevant. This schedule is meant to be fluid; providing a proposed schedule for future assessment while at the same time, providing a record of your efforts as the program planning cycle progresses.

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Program Assessment Coverage

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Student Learning Outcome 1

Be able to demonstrate an understanding of advanced knowledge of the practice of software engineering, from vision to analysis, design, validation and deployment.

RECORD OF ASSESSMENT

I. Data Collection:

[Summer 2008] CMPE 273 (Cohort 12)
- Performance data – exams and projects
- Indirect measurement – lecture and class discussion, observed during class discussion and evaluation of written portion of the project submissions, Course survey, group discussion, and individual meetings, and, Non-graded in-class labs (JMS, RMI, WS-SOAP)
- Results - Instructor in one section (26 students), gave 21 (81%) students A, 3 (12%) B+, and 2 (8%) B.

[Summer 2008] CMPE 297 (Cohort 10)
- Performance data - 4 in-class tests, final exam, and project reports and project presentations
- Indirect measurement - group discussion, and individual meetings
- Results - Instructor in one section (18 students), gave 13 (72%) students A, and 5 (18%) A-.

[Summer 2008] CMPE 295A (Cohort 10)
- Performance data – project reports and project presentations
- Indirect measurement - course survey,
- Results – 84% of students learned more than 90% of “continuing to apply the principles of business and linking them with engineering solution in terms of products and /or services” 50% of students learned more than 90% vs 95% of them indicated very important to learn the CLO: “Understanding system engineering functions through the product and/or service” Instructor in one section (24 students), gave 18 (75%) students A, and 6 (25%) A-.

[Fall 2008] CMPE 295B (Cohort 10)
- Performance data – project reports and project presentations
- Indirect measurement - course survey
- Results - Instructor in one section (24 students), gave 18 (75%) students A, 17 (2%) A-, 1 (4%) B, and 1 (4%) I.

II. What have you learn about this Student Learning Outcome?

[Summer 2008] CMPE 273 (Cohort 12)
- All students demonstrated general concepts and practical experience with contact-based concepts through Project 1
- Concepts of testing and strategic architecture concepts require additional emphasis for future classes. Determined by observation, project reports, and quality of software.
- Understanding and practical experience between Project 2 and Project 3 shows an overall increase in understanding of distributed concepts. Project 2 understanding and application was not as strongly understood (scores indicate 42% of students had a strong understanding. As compared to Project 3 having a 75% indicator of strong understanding); a 33% increase as the class was measured from week 4 to week 8 (approximate).

[Summer 2008] CMPE 297 (Cohort 10)
• All 18 students are able to understand the significance of emerging technologies in software engineering and conduct independent research on specific technologies.

[Summer 2008] CMPE 295A (Cohort 10)
• The system engineering function is not understood and not applied in the projects.

[Summer 2008] CMPE 297 (Cohort 10)
• None

III. Action Item(s) (if necessary):

[Summer 2008] CMPE 273 (Cohort 12)
• Stronger emphasis on OO/A/D concepts with small group interaction and discussion
• Stronger emphasis on testing with lecture/discussion feedback

[Summer 2008] CMPE 295A (Cohort 10)
• The system engineering function is covered in CMPE 202 and CMPE 203. Instructors of CMPE 202 and CMPE 203 should explain to the students the synergy between system engineering and software engineering.

[Fall 2008] CMPE 295B (Cohort 10)
• None
Student Learning Outcome 2

Be able to tackle complex engineering problems and tasks, using contemporary engineering principles, methodologies and tools.

RECORD OF ASSESSMENT

I. Data Collection:

[Summer 2008]  CMPE 273 (Cohort 12)
- Performance data – exams and projects
- Indirect measurement – lecture and class discussion, observed during class discussion and evaluation of written portion of the project submissions, Course survey, group discussion, and individual meetings, and, Non-graded in-class labs (JMS, RMI, WS-SOAP)
- Results - Instructor in one section (26 students), gave 21 (81%) students A, 3 (12%) B+, and 2 (8%) B.

[Summer 2008]  CMPE 297 (Cohort 10)
- Performance data - 4 in-class tests, final exam, and project reports and project presentations
- Indirect measurement - group discussion, and individual meetings
- Results - Instructor in one section (18 students), gave 13 (72%) students A, and 5 (18%) A-.

[Summer 2008] CMPE 295A (Cohort 10)
- Performance data – project reports and project presentations
- Indirect measurement - 65% of students learned more than 90% of “continuing to enhance the ability to apply theory and analysis for problem solving and synthesis and integrate information in the engineering and business processes”
- Results - Instructor in one section (24 students), gave 18 (75%) students A, and 6 (25%) A-.

[Summer 2008] CMPE 295B (Cohort 10)
- Performance data – project reports and project presentations
- Indirect measurement - course survey
- Results - Instructor in one section (24 students), gave 18 (75%) students A, 17 (2%) A-, 1 (4%) B, and 1 (4%) I.

II. What have you learn about this Student Learning Outcome?

[Summer 2008]  CMPE 273 (Cohort 12)
- All students demonstrated general concepts and practical experience with contact-based concepts through Project 1
- Concepts of testing and strategic architecture concepts require additional emphasis for future classes. Determined by observation, project reports, and quality of software.
- Understanding and practical experience between Project 2 and Project 3 shows an overall increase in understanding of distributed concepts. Project 2 understanding and application was not as strongly understood (scores indicate 42% of students had a strong understanding. As compared to Project 3 having a 75% indicator of strong understanding); a 33% increase as the class was measured from week 4 to week 8 (approximate).

[Summer 2008]  CMPE 297 (Cohort 10)
- All 18 students are able to understand the significance of emerging technologies in software engineering and conduct independent research on specific technologies.
[Summer 2008] CMPE 295A (Cohort 10)
• Lower than 70% of students consider this SLO is achieved.

[Summer 2008] CMPE 273 (Cohort 12)
• Stronger emphasis on OO/A/D concepts with small group interaction and discussion
• Stronger emphasis on testing with lecture/discussion feedback

[Summer 2008] CMPE 297 (Cohort 10)
• None

[Summer 2008] CMPE 295A (Cohort 10)
• To review current curriculum and take appropriate actions

[Fall 2008] CMPE 295B (Cohort 10)
• NA
Student Learning Outcome 3

Be able to demonstrate leadership and the ability to participate in teamwork in an environment with different disciplines of engineering, science and business.

RECORD OF ASSESSMENT

I. Data Collection:

[Summer 2008] CMPE 295A (Cohort 10)
- Performance data – project reports and project presentations
- Indirect measurement - 65% of students learned more than 90% of "continuing to enhance and improve students ability to collaborate with their colleagues in various disciplines in engineering, science, and business
- Results - Instructor in one section (24 students), gave 18 (75%) students A, and 6 (25%) A-.

[Summer 2008] CMPE 295B (Cohort 10)
- Performance data – project reports and project presentations
- Indirect measurement - course survey
- Results - Instructor in one section (24 students), gave 18 (75%) students A, 17 (2%) A-, 1 (4%) B, and 1 (4%) I.

Ⅱ. What have you learn about this Student Learning Outcome?

[Summer 2008] CMPE 295A (Cohort 10)
- Lower than 70% of students consider this SLO is achieved.

[Summer 2008] CMPE 295B (Cohort 10)
- NA

Ⅲ. Action Item(s) (if necessary):

[Summer 2008] CMPE 295A (Cohort 10)
- To review current curriculum and take appropriate actions

[Summer 2008] CMPE 295B (Cohort 10)
- NA
Student Learning Outcome 4

Be aware of ethical, economic and environmental implications of their work, as appropriate.

RECORD OF ASSESSMENT

I. Data Collection:

NA

II. What have you learned about this Student Learning Outcome?

NA

III. Action Item(s) (if necessary):

NA
Student Learning Outcome 5
Be able to advance successfully in the engineering profession, and sustain a process of life-long learning in engineer or other professional areas.

RECORD OF ASSESSMENT

I. Data Collection:

NA

II. What have you learn about this Student Learning Outcome?

NA

III. Action Item(s) (if necessary):

NA
Student Learning Outcome 6

Be able to communicate effectively, in both oral and written forms.

RECORD OF ASSESSMENT

I. Data Collection:

[Summer 2008] CMPE 297 (Cohort 10)

- Performance data - project reports and project presentations
- Indirect measurement - group discussion, and individual meetings
- Results - Instructor in one section (18 students), gave 13 (72%) students A, and 5 (18%) A-.

[Summer 2008] CMPE 295A (Cohort 10)

- Performance data – Project report and project presentations
- Indirect measurement - course survey, 75% of students learned more than 90% of “effective communication of problem analysis and solutions” and “delivering effective presentations of engineering and business activities in written and oral formats”
- Results - Instructor in one section (24 students), gave 18 (75%) students A, and 6 (25%) A-.

[Summer 2008] CMPE 295B (Cohort 10)

- Performance data – project reports and project presentations
- Indirect measurement - course survey
- Results - Instructor in one section (24 students), gave 18 (75%) students A, 17 (2%) A-, 1 (4%) B, and 1 (4%) I.

II. What have you learn about this Student Learning Outcome?

[Summer 2008] CMPE 297 (Cohort 10)

- All 18 students are able to work as team to incorporate acquired knowledge to the student’s cumulating experience of master degree is software engineering
- All 18 students can communicate effectively by competing project reports and make oral presentations.

[Summer 2008] CMPE 295A (Cohort 10)

- Students are able to communicate effectively through writing project reports and making project presentations.

[Fall 2008] CMPE 295B (Cohort 10)

- NA

III. Action Item(s) (if necessary):

[Summer 2008] CMPE 297 (Cohort 10)

- None

[Summer 2008] CMPE 295A (Cohort 10)

- None

[Fall 2008] CMPE 295B (Cohort 10)

- None