Present: Patti Chong, Roy Fujimoto, Malia Lau Kong, Jean Okumura (Chair), Annette Priesman, Jody-Lynn Storm

Excused: Jenny Kelly

1. The meeting was convened at 1:00 pm.

2. Minutes from the 10/9/15 meeting were approved as corrected.

3. ICS 141 – Renewal Proposal
   a. Hallmark 1 – page 3 - Third paragraph - last line: “determine it two statements,” should be “determine if two statements,” – a typographical error.
   b. Hallmark 2 was clear.
   c. Hallmark 3 – page 6 - Example problem #2 – “Use the Caesar cipher to decrypt the message...” It was unclear to the Board how this problem tries to get students to apply formal rules or algorithms. Could you say that the Caesar cipher is an algorithm? If so, then it is recommended that this sentence be revised to “Use the Caesar cipher algorithm to decrypt the message...”
   d. Hallmark 4 – page 8
      (1) Paragraph 2 – “In logic, they are used to represent lemmas, theorems, and corollaries,...” and “In set theory, they are used to represent sets ...” The Board was uncertain as to what the word “they” referred to. It might be better to replace the word “they” by what exactly “they” are. Is the word “they” referring to “symbolic techniques “ or “symbols”?
      (2) Paragraph 3 – Last sentence – “They then use the symbolic representations ...” The Board was uncertain as to what the word “they” referred to. Please replace the word “they” with the specific noun that “they” is referring to. Does the word “they” refer to “students”?
      (3) This hallmark states “Students will be required to use appropriate symbolic techniques in the context of problem solving, and in the presentation and critical evaluation of evidence.” The Board requests that you address how students will be required to use appropriate symbolic techniques in the presentation and critical evaluation of evidence.
      (4) It is unclear to the Board how these two sample problems require students to use appropriate symbolic techniques in the context of problem solving or in the presentation and critical evaluation of evidence. More explanation is needed or perhaps other examples might be more effective in showing how they help to meet this hallmark.
e. Hallmark 5 – page 9 – There is a typographical error in the statement of the hallmark. It should have “quantitative skills” not “qualitative skills.”

1. Page 9 – Paragraph 1 – Sentence 1 – “qualitative” should be replaced with “quantitative.” In “…to solve mathematical and problems” it seems that the word “and” should not be there. Also, in the next sentence, “These include solving …”, the Board recommends that the word “skills” be written between “These” and “include”.

2. Page 9 – Paragraph 2 – Sentence 1 - It is recommended that you add “and quantitative” between the word “computational” and “problems”.

3. Page 9 – The last paragraph needs clarification. The first sentence is not a sentence – it is incomplete. The second sentence is “The use of set identity laws to prove membership in a set expression is another example.” Our question is: The use of set identity laws to prove membership in a set is another example of what?

4. Pages 10 & 11 – You use the terminology “Basis step.” Is this a term used in ICS or was the word supposed to be “Base step”?

5. Page 11 – Last sentence – If the words “Basis” and “Inductive” are capitalized then “mathematical induction” should be capitalized as well. Also, there should be a comma after the word “completed”.

f. Hallmark 6

1. Page 12 – Paragraph 2 – Second sentence – Is the comma after “data structures” supposed to be there? Should it be “…applied to databases, data structures and strings, how to use inductive and recursive techniques…” or should it be “…applies to databases, data structures, strings, how to use inductive and recursive techniques…”?

2. Page 12 – Paragraph 4 – Please add the word “how” so that the sentence reads “…using encryption and decryption algorithms, and how to apply these concepts to …”.

3. Page 13 – Does the symbol <> represent ≠? The Board was just curious about this. No change is needed but it might help future readers if the meaning of that symbol was briefly mentioned.

g. Assessment – page 18

1. Paragraph 2 – “SLO” should be “SLOs” unless only one SLO was assessed. If only one SLO was assessed then it should be clearly stated which SLO was assessed.

2. Paragraph 4 – Third line – “qualitative skills” should be “quantitative skills”.

3. Paragraph 4 – It would be much easier to digest the data if it were in a chart instead of provided in sentence format. Please put the data in a chart/table and also provide the benchmark that was used so that it is easier to determine whether the course is meeting all the hallmarks or whether improvement is needed for a particular hallmark.

4. Paragraph 5 – First sentence – “The primary areas students had trouble with are proofs, inference,...” – The word “are” should be replaced with “were” or “included”.
4. Updates on Future Proposals

   a. Phil 111 – Ron Loo is working on the curriculum proposal.

   b. Art 175 & 176 – The courses have been approved by Faculty Senate and is now on its way to get the remaining signatures. Mark Hamasaki was given the forms and hallmarks so that it is hoped that he can get the proposal to the Board as quickly as possible.

5. Ethics Focus
   A question was posed about whether WCC had an ethics requirement and if so, what happened to it. Patti Chong recalled that at one time UH Manoa had an ethics and communication requirement that could be satisfied with lower division courses. WCC followed UH Manoa by requiring communication and ethics in the AA degree. However, WASC told UH Manoa that they needed to have some upper division general education requirements so UH Manoa changed the ethics and communication requirements so that they had to be satisfied with upper division courses. WCC felt that it was a disservice to students to continue to have an ethics requirement for the AA degree when students who transferred to UH Manoa would have to take further courses to satisfy the ethics requirement there.

4. The meeting was adjourned at 2:10 pm.