STLF Report to CWSEI and Mathematics Department

**STLF**: Joseph Lo  
**Period**: 2010-07-01 – 2010-07-31  
**Submitted**: 2010-08-25

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**Specific activities performed by STLF**

1) Professional development
   - Attended reading group (July 7, 14, 28, 28)
   - Attended NOJO meetings for new STLFs (July 2, 8, 15, 29)
   - Met with Carl, Sandi and Warren to continue the discussion on interviews (July 9)

2) Math SEI general meetings/activities
   - Attended weekly STLF meetings (July 5, 12, 19)
   - Met with math SEI group to review current projects and discuss future plans (July 5, 26)
   - Met with Rajiv Gupta to discuss about students’ performance and future plans of MATH 110 and BST (July 21)
   - Met with Rachel, Michael, Richard and Tai-Peng to discuss future plans of MATH 300/305 (July 28)
   - Met with Fok-Shuen and Djun to discuss future plans of MATH 110 (July 29)

3) Course-specific meetings/activities

   **MATH 110 – Differential Calculus**
   - Discussion about future plans
     - The major changes for next year will be on the formats of workshops and assignments.
       - **Workshops**
         1. Small group projects
            - Could be application problems, conceptual explanations, or discovery problems
            - May use Wiki to track students’ progress
         2. Practice with peer evaluation
            - The class is separated into 3 groups, each group will do a different set of problems for ~50 minutes
            - One student from each group get together and evaluate their peers’ work
            - Quiz at the end
       - **Assignments**
         - Online assignments will be used in all sections.
         - We will emphasize more on students’ abilities on explanations and solution writing.
           - Surveys and precalculus diagnostic tests will be done during the term
           - Assessments on basic skills may be done again in October and December.
The first draft of course-specific learning goals is complete. It will be done together with Math 100/180. Draft of workshop-specific learning goals is underway.

Djun and David will perform in-class activities. Some in-class activities will be created together with Math 104/184.

Online attitude survey will be given in the beginning of the term.
- Question will be chosen/modified from the CLASS survey.
- Will work with Math 104/184 and perhaps Math 220.

MATH 300/305 –Complex Variables and Complex Analysis

- Discussion about future plans.
  - Course format:
    - Assignments, 2 midterms, exam.
    - There could be diagnostic tests in the beginning of the course.
    - No computer-related materials.
  - Future plans:
    - Michael will decide on course materials and set up the course website/outline in late August.
    - Learning goals will be set up in late August.
    - Track the performance of students in Math 300 and 305. The objective is to see if it is appropriate to let math-major students to take 305 instead of 300+301.

Current project status (material prepared by either STLF or other members of the MATH SEI)

MATH 110:
- **Learning Goals:** First draft of course-specific learning goals is complete. Draft of workshop-specific learning goals is not started. Will be done together with Math 100/180.
- **Assessments:** Basic Skills Test is in progress. Costanza is working on the analysis of 2009 BST questions. We will modify the BST based on these results in August.
- **New Methods/Materials:** First draft of workshop proposal is done. Need to discuss with the instructors before continuing.

MATH 300/305:
- **Learning Goals:** Not started.
- **Assessments:** None at this point.
- **New Methods/Materials:** None at this point.

Plan for immediate future work

MATH 110:
1. Start drafting learning goals for the workshops and work on the 2\textsuperscript{nd} draft of learning goals for the course.
2. Continue working on the proposal for workshops.
3. Attitude survey.
4. Prepare for the BST.

MATH 300/305:
1. Work on course-specific learning goals.
2. Prepare the diagnostic tests.