**UCF NSSE Workgroup: Numeracy**

**Refined Problem Statement**
UCF students need to learn quantitative methods and to apply mathematical concepts to solve real life problems (word problems) across all disciplines.

**Objectives**
1. To graduate citizens who can make numeracy informed decisions in their careers, everyday lives, and society.
2. All faculty and students will embrace a culture of numeracy (including common values, common language, and an emphasis on word problems).
3. To graduate more students in the sciences and engineering with a higher level of numerical competence, appropriate to their disciplines.
4. Graduates of UCF will be able to discriminate between good and poor information.

**Potential Solutions and Implementation Strategies**
1. Institutional competencies and standards that can be assessed for all students.
   a. Each program that has courses with multiple sessions will have a coordinator for each course.
2. Create a center for numeracy that can offer units in practical numeracy, as well as possible remedial math classes.
   a. Classes could include “refresher” courses for specific programs or departments.
3. Develop a set of tutorials to be available on an as needed basis (may be delivered via web). This may include a more formal tutoring program.
4. Each program will examine its curriculum with an eye to interdisciplinary numeracy opportunities. This will include the courses that comprise Gen. Ed.

**Key Personnel**
- Subir Bose (Physics)
- General Education faculty
- Departmental program coordinators

**Projected Timeline**

**Resources**
- New faculty hires with interdisciplinary expertise
- Salary compensation for faculty involved in the coordination of this project
- Possible computer lab or computation lab
- Faculty development

**Assessment**
Consider existing standardized tests of analytical skills (e.g. RAND test).