Mathematics Discipline Meeting  
Wednesday, March 9, 2016  
Minutes

Present: Clayton Akatsuka, Jean Okumura, Navtej (Johnny) Singh, Jody Storm, Kevin Takayama

The meeting was called to order at 2:35 pm in the Mana‘opono Room 113.

1. The minutes of the Feb. 24, 2016 meeting was approved as circulated.

2. Course Evaluation – Math 212 – Brief Calculus from Gateway CC, Arizona
   o Yes, the course satisfies the Math graduation requirement.
   o This course is equivalent to Math 203 and hence meets FS.
   o The next course to take at WCC is Math 100, 101, 111, 115, 140, or placement test.

3. UHCC Initiatives
   o A funding request to help our campus with the implementation of the new initiatives was already submitted by the VCSA, Amy Rozek. However, there has been no word from the system about these requests.
   o Kevin has talked to Ardis and Charles about training for WCC math faculty, including lecturers. However, everything hinges on funding, especially if we want lecturers to receive a stipend to increase the likelihood of their participation in the training.
   o Lecturers need to participate in training especially for Math 75X otherwise, we should not allow them to teach Math 75X and that means that we cannot offer them as many classes to teach.
   o We need to find out what money and how much money the College would lose if we don’t offer students who place one level below with the opportunity to complete their college level math class in one semester.
   o After learning about Honolulu CC’s method of having a lab attached to Math 75X (4 credits for students and 5.5 credits workload for faculty), discussion ensued about whether we should try a similar model. **It was decided to keep to our 4 credit with no lab for now and we can re-evaluate what to do once we have some data.**

4. UHCC Math Initiatives – Math 75X
   o **It was decided to use Math in Action for Math 75X.**
   o **It was decided that all Math 75X textbook orders will be:** Looseleaf textbook + MML access code.
   o Topics
     ➢ Critical Thinking and Problem Solving Strategies
       ❖ Will be blended within the topics of the course
       ❖ Assess reasonableness of solutions
     ➢ Number Sense
       ❖ Estimation – put under Operations on Real Numbers
     ➢ First Unit - Operations on real numbers – No calculator for test.
       ❖ Working with positive/negative numbers **(including fractions & decimals)**
       ❖ Order of operations (could also share that a scientific calculator follows the order of operations)
       ❖ When does the distributive law apply?
       ❖ Simple square roots
Integer exponents and their properties (product rule, quotient rule, power to power rule)
Scientific Notation
Estimation – we will need to supplement. We could also change some of the calculator problems in the first chapter to an estimation problem and then check it out with a calculator.

Second Unit - Proportional Reasoning
  • Percent
  • Percent application problems
  • Ratio and proportion application problems

Linear Equations in One and Two Variables
  • Mixture application problems
  • General number application problems
  • Write equations of lines
  • Systems of linear equations

Evaluating and manipulating formulas

Graphical Representations
  • Table of values
  • Linear graphs
  • Graphs of quadratic equations (parabola)

Dimensional Analysis

Geometry and Measurement
  • Pythagorean Theorem and applications

WOVEN THROUGHOUT
  • Applications
  • Reading mathematics (math vocab.)
  • Communicating mathematics
  • Appropriate use of technology
  • Pattern Recognition

Calculator Use
  • For basic skills portion, no calculator allowed for the test.
  • After the basic skills portion, a scientific calculator will be allowed/required(?) for tests.

After trying to make units out of the topics and selecting the chapter/cluster (that meant mixing up the order of the clusters and that can be confusing for students), it was decided that we should stick with the order of the chapters/clusters and select what to cover within each chapter/cluster while making sure that all topics are covered.

5. The meeting was adjourned at 4:18 pm. (Minutes by J. Okumura)