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Min-Lin Lo CD Summer 2011

Min-Lin Lo
CSUSB, mlo@csusb.edu

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COURSE DEVELOPMENT GRANT progress report

NAME: Min-Lin Lo
DEPARTMENT: Mathematics
EMAIL ADDRESS: mlo@csusb.edu
DATE SUBMITTED: November 28, 2011

Title of Grant Award: Course Development Grant--Summer 2011

Project Goal: Employ discovery learning through examples to enhance students' study.

When Implemented: Winter 2012

Brief Description of the Project:

The main goal of this project is to create discovery learning material that uses well-planned examples and design instruction structure that guide students to discover and understand the abstract concepts. It is my hope that by implementing this project, students will see the connection between the abstract concepts and the computational algebra they learned before. Most important of all, they will learn the skill of use self-created examples in their future study when learning new abstract math concepts.

PROGRESS REPORT:

July-August 2011:

- Designed class worksheets that contain well-planned examples that guide students to understand and discover abstract concepts (See attached sample section)
- Designed instruction structure and activities to be conducted in class: mainly will be using the worksheet to guide students to prove a theorem in class as well as frequently using "Think-Pair-Share" activities and group discussion/competition.

Winter 2012: Scheduled to implement this project in MATH345.