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Award Abstract #0942186

Common Sense: Quantitative Reasoning in the Undergraduate Curriculum

NSF Org:

**Division of Undergraduate Education** 

**Initial Amendment Date:** February 25, 2010

Latest Amendment Date: February 25, 2010

> Award Number: 0942186

Award Instrument: Standard Grant

Richard A. Alo **Program Manager:** 

DUE Division of Undergraduate Education

EHR Directorate for Education & Human Resources

Start Date: March 1, 2010

> Expires: February 29, 2012 (Estimated)

Awarded Amount to Date: \$190778

> Investigator(s): Maura Mast maura.mast@umb.edu (Principal Investigator)

Ethan Bolker (Co-Principal Investigator)

Sponsor: University of Massachusetts Boston

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NSF Program(s): CCLI-Type 1 (Exploratory),

S-STEM: SCHLR SCI TECH ENG&MATH

Field Application(s): 0116000 Human Subjects

Program Reference Code(s): SMET, 9178

Program Element Code(s): 7494, 1536

**ABSTRACT** 

Mathematical Sciences (21)

This project is developing, assessing, and disseminating materials for teaching a quantitative reasoning course. In contrast with many similar courses, which cover a set of mathematical topics using relevant examples, this course is being driven by complex stories about, for example, inflation, fuel economy, and paying off debt. Students are developing quantitative,

common sense approaches to examine the issues of interest, and instructors review relevant mathematical material as necessary. Spreadsheets are being used as a tool for investigation and computation. Materials being developed include a textbook, homework problems and solutions, model spreadsheets, and supplements for both students and faculty. Course materials are designed to incorporate best practices in teaching. The project is evaluating the ability of the course to change, in the long term, the way students approach quantitative data. Dissemination plans include faculty development workshops for prospective instructors of the new course. Overall, the project is seeking to develop students' willingness and ability to assess numerical evidence in order to make informed decisions. It has the potential to impact a wide variety of students enrolling in general education mathematics courses.

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