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Award Abstract #0942246

An inquiry-based, supportive approach to statistical reasoning and application

NSF Org: [DUE](#)
[Division of Undergraduate Education](#)

Initial Amendment Date: December 1, 2009

Latest Amendment Date: December 1, 2009

Award Number: 0942246

Award Instrument: Standard Grant

Program Manager: Herbert H. Richtol
DUE Division of Undergraduate Education
EHR Directorate for Education & Human Resources

Start Date: January 1, 2010

Expires: December 31, 2011 (Estimated)

Awarded Amount to Date: \$174999

Investigator(s): Lisa Dierker Idierker@wesleyan.edu (Principal Investigator)
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Sponsor: Wesleyan University
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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

A uniquely collaborative, inquiry-based course in introductory statistics is developed to serve 100 students per semester across both divisional and departmental boundaries. The curriculum combines new learning materials and innovative teaching strategies to pursue a multidisciplinary model of statistical inquiry, providing training in flexible application of knowledge, opportunities to analyze data in real world contexts, and education about statistical concepts through computing. A comprehensive resource

infrastructure is established to provide intense multilevel support to students, allowing them to work independently and creatively to explore their own scientific questions and make decisions about data analysis. The resources that students utilize will be dictated by their research question and results at each stage of their work. That is, beyond basic data management and hypothesis testing themes, students are learning most about what they need to know to answer their specific research questions by doing the work themselves. The course represents 50% of the student's semester curriculum, permitting full immersion in the process. Substantial recruitment efforts are focused on engaging women and underrepresented students during their freshman year, so that their experience can maximally impact the direction of their undergraduate

education. The broader impact is to provide more quantitatively literate individuals, and a larger, more gender and ethnically-balanced population with the kind of skills needed to communicate quantitative information across disciplines. Finally, a strategy is developed to disseminate the course model and to make the newly developed teaching tools and supportive resources widely available to other universities.

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Last Updated:
April 2, 2007
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