

Allied Health Applications Integrated into Developmental Mathematics Using Problem Based Learning.

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Abstract:

For this FIPSE funded project, mathematics faculty attended allied health classes and allied health faculty attended mathematics courses to incorporate health examples into the developmental mathematics curriculum. Through the grant a 450-page developmental mathematics book was written with many problems from a variety of allied health fields (Shore et al., 2003). A pre-test, post-test, and questionnaire were developed and found to be reliable. Results consistently showed that scores on experimental sections of developmental mathematics that incorporated allied health examples and problem-based learning were significantly higher than the control sections. In fact, the scores for students in sections taught using PBL and all other sections during the first year of the grant were significantly greater than the scores for students the preceding semester (2003) by the same teachers.

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