Identifying and Remediating At-Risk Attributes of Online MAT1033 Learners at Broward College Using eMathReady™

by
Pascal Roubides, PhD

BROWARD COLLEGE Online
Florida's Global Campus

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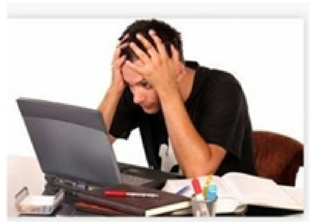
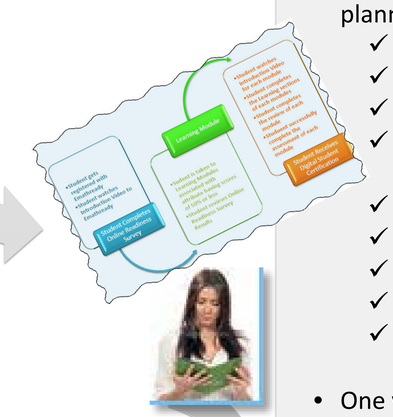
Summary

- A project in Online MAT1033-Intermediate Algebra
- Involve up to 30 sections & up to 1000 students
- Aiming to identify at-risk students & provide necessary scaffolds to address gaps in skills deemed necessary for success online
- Will utilize **eMathReady™**, a personalized online learner support platform developed at Valencia College
- Will assess students' likelihood for succeeding in an online course & provide remediation on attributes, skills, and knowledge that contribute to success as an online learner

Background

- Many factors affecting student retention & success online
- Three broad factors identified to have a major role:
  (i) course design related issues
  (ii) delivery related issues
  (iii)student related issues
- Last set of factors includes myriads of attributes and characteristics (e.g. financial status, life stability, time management, engagement, test anxiety, etc.)
- Many theories developed on factors contributing to student attrition, persistence, and success
- Not every factor can be addressed by an institution
- Factors related to self-regulatory skills = the most important factors contributing to student success
- Adult learners = more likely to enroll in online courses
- Empirical evidence does **not** agree with the expectation that adult learners have increased levels of self-confidence, self-motivation, and self-reliance, regardless of the level of readiness
- Expected skills contributing to online learners' success **are** lacking and go **un-remediated** prior to or during enrolment in online courses
- Case studies show significant benefits for online learners





Project Overview

- Important to provide prospective online students the means to assess their level of readiness to learn in an online environment
- To identify and remediate online learners' lack of necessary skills will use the **eMathReady™** platform

- eMathReady™: personalized online learner support platform, providing an indication of the degree to which a student possesses the attributes, skills, and knowledge that contribute to success as an online learner
- Provides personalized assessment and remediation on whether a student planning on taking an online course:
  - ✓ is an independent or dependent learner
  - ✓ has good computer skills
  - ✓ has sufficient prerequisite skills
  - ✓ is able to learn how to structure learning math online to match their own learning style
  - ✓ is able to master math competencies in a set time period
  - ✓ has good organizational & time management skills
  - ✓ has necessary math study skills
  - ✓ has low math anxiety & not fearful of taking math tests
  - ✓ has good reading skills

- One year project (Spring, Summer, Fall 2018)
- Targeted sample: 25-30 sections of online MAT1033
- Estimated 900-1000 students involved
- Students will use an orientation including completing the assessment and remediation necessary provided by eMathReady™

Project Evaluation

- Effectiveness evaluated using a summative data collection and statistical analysis of retention rates and final course performance of students involved in this project as compared to the average retention rates and final course performance of previously offered MAT1033 courses in similar terms in the previous academic year