A DENTAL CURRICULUM REVOLUTION: MOVING FROM LECTURE-CENTERED TO STUDENT-CENTERED APPROACHES USING ACTIVE AND ADAPTIVE LEARNING

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INTRODUCTION AND SIGNIFICANCE

We propose incorporating adaptive and active learning techniques into our curriculum. We plan to start small and gather some pilot information that these techniques can improve student learning outcomes. If the data shows improved learning, then we propose to take steps to make the software and techniques available to our whole institution. While additional time is not available to teach, the delivery could be changed to help with retention of the information and increase student engagement. We need to increase student engagement and knowledge retention in order for them to be successful on the new INBDE format. Additionally with the ever-increasing complexity of dental technologies and changing dynamic of this generation of learner we must modify our current delivery method.

41 years? What’s changed?

First Class Enrolled 1975 4-year DMD Program

Present 4-year DMD Program

COLLABORATION

Periodontics Care Planning and Restorative Sciences

Initial Pilot Project

Improved student learning outcomes

RESOURCES

Instructional Designer

PURCHASE ADAPTIVE LEARNING SOFTWARE

Course Coordinator #1

Perio - Course #1 2016-2017

Course Coordinator #2

Perio - Course #2 2016-2017

Caries - Course #1 2016-2017

Outcomes Assessment

Comparing 2016-2017 (learner-centered) courses with 2015-2016 (lecture-centered) courses

Presentations to Curriculum Committee and Dean

Develop new position for Instructional Designer

IMPLEMENTATION AND OUTCOME MEASURES

Goals:

➢ Creating higher levels of student understanding and knowledge retention for each of the courses.

➢ Improve the students ability to successfully pass the Integrated National Board Dental Exam.

➢ Generate pilot data to get administration onboard with a school-wide change.

Increasing amounts of knowledge retention

Modified from Mycoracle.com

Lectures  

Discussion  

Teaching others

Practice by doing  

Demonstration  

Company Pitches

Audio Visual  

Reading

Engagement

Modified from Jrlanes.wordpress.com

Content  

Interaction

Assessment