An Exploration of Learning Analytics at the School of Dentistry

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**Goals:**

- **Phase one: Exploratory DATA ANALYSIS**
  - Data analysis of admission and course performance scores to identify remediation needs.
  - Identification of data mining issues such as centralized availability of data.

- **Phase two: PILOT INTERVENTION**
  - Incorporation of pilot intervention projects that will facilitate learning analytics using software such as LectureTools: ANKI; LessonLAMS etc.
  - Results of intervention used for BEST PRACTICES guide for teaching and learning.

- **Phase 3: LEARNING ANALYTICS IMPLEMENTATION PLAN**
  - Implementation plan for School wide use of a dashboard that will address the following: Centralized storage of student data; a learning analytics software that addresses all the SOD remediation issues and facilitates learning for all students.
Data Discovery:

- College transcripts for UM graduates
- Historical academic data such as ACT scores

UM Data Warehouse

- Course grades
- GPA throughout the 4 years of dental school

Registrar’s Office

- Course assignment grades
- Interview Data

In House Data
Moving Forward:

- Explore ways to store academic data in a unified space such as Amazon Web Services
- Using Excel capabilities to create a descriptive model for the data we do have
- Going beyond one cohort and include data for more student groups
- Testing descriptive models on various student cohorts
- Pilot interventions using Learning Analytics software within courses