

UTEP 3rd Annual Progress Update

June 28th, 2011

Vancouver, Canada

UNIV 1301 Foundations of Engineering

YEAR 3 RESULTS :

- UTEP taught 15 sections of the new UNIV 1301 course - Foundations of Engineering- during Fall 2010 – to all majors
- Each section had 30 students for a total of 450 students in Year 2

Preliminary

COLLEGE OF ENGINEERING
THE UNIVERSITY OF TEXAS AT EL PASO

Introduction of MATH 1508

- Spring 2011: Introduced *Engineering Applications of Math* courses as special sections of MATH 1508
- Co-taught by Engineering/Mathematics Faculty & a Peer Leader
- 3 sections of 30 students / 90 total

Preliminary

MATH 1508 MODEL – iNSIGHTS?

- Different approaches were employed
- One section used a computer-based approach
- Two sections used a WSU-like approach
- 3-Hour lecture with 2-Hour laboratory
- Weekly homework exercises.

Challenges & Opportunities

- Identifying dedicated, well-prepared Peer Leaders
- Enrollment of non-Engineering majors
- Limit of 30% content in UNIV 1301 sections
- Connexions (cnx.org)
- Laboratory manual in preparation

Year 4 Plans

Fall 2011 and thereafter in 2012:

- Teach 16 COEN sections of UNIV 1301 Foundations of Engineering and
- Repeat MATH 1508 experience, AND advance planning and introduction of more sections and more courses in 2012.
- Continue evaluation to determine impact.