

New High School Course Proposal

New Course Title: University Experience-S.T.E.M.

Proposed New Course Number: 50550

PEIMS Number: Innovative, to be assigned

Prerequisites: Seniors interested in entering a university in identified critical need degree fields

Anticipated Enrollment 1st year: 20-100

Course Description:

This course is designed to prepare seniors for the transition to a university degree program targeting a high demand occupation. The goal is to provide seniors with a "real time" relevant university experience. The course will model the university learning environment for degrees in the critical need areas identified by the State of Texas. This innovative process has been developed in partnership with the Texas Woman's University and the Advanced Technology Complex. *Dual credit pending with TWU*

Needs Assessment:

- Texas Higher Education Plan "Closing the Gap-2015"
- Texas College Readiness Standards, January 2008
- Science, Technology, Engineering & Math 2008 Stakeholder Advisory Committee
- Achieve Texas, A Commissioner of Education, TEA plan
- Post-Secondary identified critical need degree fields:
 - Education
 - Engineering
 - Allied Health
 - Nursing
 - Physical Science
 - Math
 - Computer Science

- Texas identified six cluster of need targeting economic growth:
 - Advanced Technologies & Manufacturing
 - Aerospace & Defense
 - Biotechnology & Life Sciences
 - Information & Computer Technology
 - Petroleum Refining & Chemical Products
 - Alternative Energy

Describe effect on existing academic schedule:

This senior level elective course does not require any specialized prior course work and therefore has limited impact on the academic schedule and is only available during the senior year.

Fiscal Implications:

- This innovative course expense will be supported in the initial design and implementation stage by a federal grant
- Current CTE staffing will support this course due to the expected decline in advanced CTE enrollment created by the 4X4

Expected Outcomes:

Denton ISD students will:

- Recognize that the transition to college-level learning involves change
- Develop educational strategies that will impact learning
- Require less remediation at the university level
- Increase in university degree completion
- Understand the requirements for STEM-related degrees and advanced degrees
- Prepare for high demand occupations requiring a degree

Approved by Campus Principal:_____

Approved by Program Director/Curriculum Coordinator:_____

Approved by Director of Secondary Curriculum:_____