Modesto Junior College STEM Learning Connections

ABSTRACT

Modesto Junior College (MJC) requests $4,347,286 from the Department of Education to increase the number of Hispanic and other low-income students who excel in college mathematics and science programs and articulate to four-year universities in a STEM field through the establishment of the STEM Learning Connections project which establishes a science and mathematics learning hub, provides innovative learning resources and support, and creates an articulation model that includes counselor and faculty advising. Project goals address both Program Absolute Priorities and the Competitive Priority.

This project will provide critically-needed additional support services to Hispanic students preparing for STEM majors through integration of four strategies:

1) **STEM Support Services**: Establish a 21st Century STEM Learning Center.

   A technology-enabled learning environment will support enhanced tutoring, group instruction, STEM workshops, and a summer “math jam”.

2) **STEM Advisory and Articulation**: Implement a course to course and faculty/counselor advisory and articulation model. Faculty and Counselors will be trained in effective STEM advising and increase the number of STEM articulations with 4-year universities.

3) **STEM Instructional Delivery Improvement**: Enhance curriculum and instructional delivery to align math and science courses with 4-year universities and integrate technology-enabled learning into STEM courses.

4) **STEM Program Evaluation Model**: Build a data-based decision-making model to gather, analyze, evaluate, and improve STEM programs.

   STEM programs will be evaluated by developing tools and processes for faculty and administrators to evaluate outcomes and innovative instructional methods.