

San Bernardino Valley College Cooperative HSI STEM & Articulation Programs ABSTRACT

The San Bernardino Valley College (SBVC) cooperative Hispanic-Serving Institutions Science Technology Engineering and Mathematics and Articulation Programs (HSI STEM & Articulation Programs) PASS GO project in partnership with California State University, San Bernardino (CSUSB) addresses the following **Absolute Priorities**: 1) Increase the number of Hispanic and other low income students attaining degrees in the fields of science, technology, engineering, or mathematics; *and* 2) Develop model transfer and articulation agreements between 2-year Hispanic-serving institutions and 4-year institutions in such fields. The proposed project also addresses the **Competitive Preference Priority**, by enabling more data based decision-making to improve postsecondary student outcomes in enrollment, persistence, and completion - leading to career success. SBVC and CSUSB are both Hispanic and minority serving institutions with Hispanic enrollment of over 40%.

The cooperative project will implement two activities: one strengthens support services for minority and low-income STEM students at SBVC and CSUSB; and a second strengthens the existing partnership between the two institutions through a formal partnership that will review and enhance existing transfer and articulation agreements for minority and low-income STEM students.

Activity One provides learning support services to improve student access, achievement, and advancement in STEM through three components: Learning Community Cohorts, Academic and Career Support Resources, and Outreach to students and their families.

Activity One Component 1: Establishes and expands Learning Community cohorts for Hispanic and low-income students in STEM fields.

Activity One Component 2: Enhances programs and services offered in STEM tutoring, academic/career counseling, and paid STEM internships, along with new programs that address the needs of students in developmental programs such as placement-test workshops, Supplemental Instruction and faculty professional development. These programs will be bolstered and assessed for maximum student access and achievement using tracking and data collection methods in these and other services (e.g., Learning Communities and transfer from SBVC to CSUSB).

Activity One Component 3: Outreach will inform incoming students and their families as to their choices and opportunities offered in STEM fields prior to their enrollment and will provide a roadmap for their STEM success; The Project Director, working with the evaluator and Director of Institutional Research will develop surveys and tracking protocols to ensure students are entering and progressing through the STEM pipeline.

Activity Two expands and strengthens the STEM pipeline, building a bridge for SBVC's STEM students to succeed as STEM majors at CSUSB. This will be achieved through a symbiotic partnership that addresses both institutions' needs, as well as revised and enhanced articulation and transfer agreements between the STEM departments.