A Multi-Pronged Approach for Student Success in STEM

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• Increase Degree Attainment Among Hispanic and Low-Income Students
• Science Success Center & STEMGym
• Enhanced/Proactive Counseling
• MBTI and Strong Interest Inventory
• Undergraduate Research
• Membership in Professional Societies
• Individual Development Plans (IDPs)
• Mental Health & Career Counseling
• Stress/Time/Financial Management

Student Advising

Student Support Services

• Holistic Student Support
• Hispanic Role Models & Mentors
• Summer Research
• Alternative BS Degrees
• Retention & Achievement for English Learners
• Partnerships with STEM Industries
• Learning Objectives and Skills Aligned with Employment & Internships
• Science Buddies

STEM Pedagogy Improvement

Community College Articulation

• Faculty Learning Communities (FLC)
• Chairs Learning Community
• Facilitators Learning Community
• Culturally Responsive Teaching FLC
• Community College/CSUSB FLC
• Redesign of Gateway Courses
• Inclusive Participation in AI Education
• Flexible Pathways for Data Science Education
• Culture/Infrastructure to Support ELs
• Increased Use of Learning Assistants

• Articulation Agreements with Community Colleges
• Tailored 4-Year Transfer Roadmaps
• Summer Bridge Orientation Programs
• Scholarships for Low-Income and High Potential Transfer Students
• Upper-Division Multiple Designation Electives
• Connections with Feeder Community Colleges
• Transfer Student Success Center

ABSTRACT

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