

**“University-wide” Domain Delegates
from all Colleges & “Community Stakeholders Group”**

DOMAIN #2: CONNECTING TO P-12 SCHOOLS AND COMMUNITY COLLEGES

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Proposition 1 of 6: Developing university-wide partnerships in the creation of teacher preparation curriculum and teacher training activities for the K-14 educational sector. Include inquiry based applied science activities within the P-12 curricula.

Action:

1. The development of teacher training curricula can include faculty from STEM (Science, Technology, Engineering, and Math) disciplines.
2. Identify content area faculty from STEM disciplines to work with student teachers and “Master/Cooperating” teachers in developing classroom materials.

Some ideas:

- Grant release time to faculty working with P-14 partners on curriculum
- Support institutes/workshops to P-14 teachers based on state content standards
- Gain external funding to support P-14 curricula development
- Review P-14 STEM materials for best practices
- Secure resources to support P-14 professional development activities and continuing education needs of new teachers
- University Center for Excellence in Science and Mathematics Education (CESaME) as a foci for creating STEM related educational materials for K-12 teachers and students
- Establish Teacher-in-Residence programs for Multiple Subject and Single Subject disciplines
- Encourage shared appointments between College of Education and other colleges
- Develop a BS/MS program for STEM majors interested in community college teaching
- Compensate master/cooperating teachers for the work they perform

Proposition 2 of 6: Target underserved communities in order to develop a college going culture of high achieving students in STEM disciplines.

Action:

1. Leverage and expand existing developmental outreach programs on campus targeting first generation and low income students.
2. Establish service learning course for graduation credit.
3. Include outreach activities as part of the recognized RPT process

Some ideas:

- Create and disseminate targeted multi-lingual communication materials to prospective students and parents about the value of higher education and the career opportunities associated with STEM majors
- Utilize student organizations more effectively in outreach activities to share experiences, enthusiasm and knowledge of discipline.
- ADA compliance in all tools and systems
- Create and disseminate discipline specific information through videos, pod casts, electronic communications and campus web sites
- 2 year on-campus housing guaranteed
- Develop corporate sponsored internships for students
- Campus staff work on-site with partner schools to assist with student application, admissions and matriculation to the university
- Create a shadow program for high school students to experience college life
- Offer on and off-campus tutoring for P-12 and community college students
- Provide campus newspaper and college magazines to community colleges and high schools
- Utilize and modify existing outreach activities and materials from professional associations (AIA, ASLA, ASME, IEEE, ACS, and AEP) and societies.
- The Kennedy Library to invite the public to regular events and speaker series to include bi-lingual presentations
- Secure resources to support these activities

Proposition 3 of 6: Develop and implement a strategic recruitment plan to attract “first generation” and “low income” students to STEM disciplines

Action:

1. Target partner schools (high schools and community colleges) with a high percentage

- of low-income, first generation students
2. Partner with key feeder high schools and community colleges
 3. Develop a seamless articulation process between community colleges and the CSU

Some ideas:

- Establish a scholarship endowment for Partner Program students, as well as other low-income, first-generation college student
- Establish summer programs for prospective students and their teachers
- Bring K-12 and community college students to campus for recruitment events highlighting colleges and majors
- Utilize project-based learning to employ high school (10th & 11th grader) students, high school science and math teachers and community college STEM students for the summer
- Partner with community colleges and local industry to plan and host annual bi-lingual parent conference on campus
- Utilize and expand roles of Poly Reps and college ambassadors to include presentations to P-12 schools and community colleges (i.e. Career Day)

Proposition 4 of 6:

Use technology to remove distance barriers in building partnerships through the use of collaboration tools.

Action:

Develop a system initiative with the university and P-12 schools and community colleges to deploy technologies on a pilot basis

Some ideas:

- Host classes taught by CSU faculty via the web and make available to community college students and faculty
- Use Webinar, teleconferencing, and TelePresence-like technology to promote collaboration with campus partners
- Develop an introductory engineering course for middle school, high school and community college students
- Provide pod cast of speeches on key educational issues available to P-12 and

- community college personnel
- Offer distance learning and information exchange via the web

Proposition 5 of 6: The library can initiate avenues for creating beneficial partnerships with P-14 and community colleges to assist in the improvement of school district library resources.

Action:

Increase the Kennedy Library mentoring of school district librarians and staff in collection development and professional development
Increase advocacy for school district library support

Some ideas:

- Collaborate on grant proposal for professional development of district library staff
- Collaborate on grants to improve districts library collections and automation
- One-on-one mentoring of school district librarians and staff

Proposition 6 of 6: The Kennedy Library can play a role in the encouragement of student to pursue STEM careers at an early age.

Action:

Create a Field Trip Program for visiting elementary and middle school students to the campus
Develop program through the collaborate with museums and libraries with established outreach activities

Some ideas:

- Specific educational objectives to acquaint students with the library
- Excite young students about research and learning
- Early use of library resources for college and career exploration
- Secure resources to support activity